SONY®

Network Surveillance Server

Installation Manual _____ GB

設置説明書 _____ JP

Manuel d'installation _____ FR

Installationsanleitung _____ DE

Manuale all'installazione ____ IT

Manual de instalación _____ ES

安装手册 _____ CS

NSR Series

IPELA

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Before using the server, be sure to read this manual.

- Reproduction or duplication, in whole or part, of the software or operation manual supplied with the recorder, as well as renting or leasing of the software without the authorization of the right holder is prohibited under copyright law.
- Sony assumes no responsibility for damages, loss of income, or any claims from a third party arising out of use of the recorder or supplied software.
- For complete terms and conditions of the warranty for the recorder, refer to the warranty card included in the package.
- The software supplied with the recorder cannot be used with any other recorders.
- It is not possible to install any software into the equipment other than the software supplied by Sony specifically for use with the equipment.
- Note that the specifications of the recorder and supplied software are subject to change for improvement without prior notice.
- The recorder uses high security MD5 for password saving.

Disclaimer of liability for recorded content

Sony Corporation does not accept any liability whatsoever for any problems arising from a failure to record, or from damage or erasure of recorded content on this equipment, for any reason. This includes claims for compensation of recorded content, and for any concomitant and consequential damages. Sony Corporation will not repair, restore, or duplicate any recorded content. Your use of this product is subject to these conditions.

Before reading this manual

Be sure to read the "Safety Regulations" supplement.

Usage Precautions

Important Information About Safety

- Be sure to connect the unit to a power source that conforms fully to the electrical specifications of this unit.
- Use only the supplied power cord. Do not coil the power cord or bundle it with other cords. Do not piggy back connections. If current ratings are exceeded, there is a risk of fire and other accidents.
- Make sure that all AC outlets and power cords are properly grounded.
- Do not use the unit with the cover or case opened or removed. Otherwise there is a risk of fire and electric shock. Do not attempt to open or remove the cover or case yourself. Always consult your supplier if opening is necessary.

Important Information About Installation

Locations for use/storage
To prolong the life of the product, avoid use or storage in the following locations.
- Locations that can become extremely hot or cold. (Be sure to use the unit that conforms fully to the specifications of this unit.)
- Locations exposed for an extended time to direct sunlight, and locations near heating appliances. (Note that the temperature in a closed car in summer can exceed +50 ℃/+122 ℉.)
- Locations with high levels of humidity or dust
- Locations subject to strong vibrations
- Locations subject to strong magnetic fields
- Locations in the vicinity of radio or TV transmitters creating a strong magnetic field

Do not block the ventilation openings
- The ventilation openings on the sides of the unit serve to prevent internal heat buildup. Always leave a clearance of at least 10 cm (4 inches) on both sides as well as behind and above the unit.
- Do not use the unit in a closed box or other enclosure.
- Make sure that there are no cables or other objects in the vicinity of the fan opening on the rear of the unit. If the opening is blocked, internal heat buildup can occur, leading to the risk of fire and damage.
- Also when the unit is installed in a rack, you must make sure that the fan opening on the rear as well as the ventilation openings on the front are not blocked by cables or other objects. Do not install the unit in an environment where the above requirements cannot be met.

Use the unit in a horizontal position
- The unit is designed to be operated in a horizontal position.
- Do not install the unit on a slanted surface, and protect the unit from shocks.
- When the unit is dropped or otherwise subject to strong shocks, it can be seriously damaged.
- When installing the unit in a rack, make sure that a horizontal position is maintained. If the unit is not properly levelled, malfunction may occur. Also, it is highly recommended to properly anchor the rack to a wall or similar, so that it cannot topple over.

Maintenance
- Before cleaning the unit or performing any other kind of maintenance, be sure to disconnect the power cord from the AC outlet.
- For cleaning, lightly wipe the cabinet and panels with a dry cloth. To remove stubborn stains, lightly moisten the cloth with a mild, neutral detergent and wipe with a dry cloth afterwards.
- Do not use cleaning alcohol, solvents, benzine, insecticide, or any other volatile substances, because these may damage the finish and lead to discoloration.
- Dust can accumulate in the ventilation openings on the front of the unit. When removing the dust, make sure that you do not subject the unit to shocks or vibrations.

Transport
Use the original packing material or similar packing to protect the unit from shocks.

Precautions for products with built-in HDD

This unit has a built-in hard disk drive (HDD). The HDD is a precision device. If subject to shock, vibration, static electricity, high temperature or humidity, data loss can occur. When installing and using the unit, closely observe the following precautions.

Protect from shocks and vibrations
When subject to shocks or vibrations, the HDD can be damaged and loss of data on the HDD can occur.
- When transporting the unit, use the specified packing material. When transporting on a dolly or similar, use a type which does not transmit excessive vibrations. Excessive shocks and vibrations can damage the HDD.
- Never move the unit while it is powered. Also before removing or inserting the unit in a rack, make sure that power is off.
- Protect all HDD-equipped devices in the rack from shocks.
- Before removing or inserting the unit in a rack, make sure that power to any other HDD-equipped devices in the rack is also switched off.
- Do not remove panels or outer parts of the unit.

GB

• When placing the unit on a floor or other surface, make sure that the unit is equipped with the specified rubber feet, and put the unit down carefully. If there are no feet, mount the rubber feet first.
Do not place the unit near other devices that may become a source of vibrations.

Wait for 30 seconds after turning power off

For a brief interval after the power is turned off, the platters inside the HDD will still keep spinning and the heads will be in an insecure position. During this interval, the unit is more susceptible to shocks and vibrations than during normal operation. For a period of at least 30 seconds after turning power off, avoid subjecting the unit even to very light shocks. After this period, the hard disk will be fully stopped and the unit can be manipulated.

Temperature and humidity related precautions

Use and store the unit only in locations where the specified temperature and humidity ranges are not exceeded. (Be sure to use the unit that conforms fully to the specifications of this unit.)

When HDD seems to be faulty

Even if the HDD is showing signs of malfunction, be sure to observe all the above precautions. This will prevent further damage from occurring until the problem can be diagnosed and corrected.

Replacement of the HDD and other consumable parts

The HDD, fan, and battery of the unit are consumable parts that will need periodic replacement. When operating at room temperature, a normal replacement cycle will be about two to three years. However, this replacement cycle represents only a general guideline and does not imply that the life expectancy of these parts is guaranteed. For details on parts replacement, contact your dealer.

Precautions for using USB devices

• This unit supports standard USB 2.0 Mass Storage devices. Depending on the type of USB 2.0 Mass Storage device, however, errors may occur when writing data to the device. If errors occur when writing data, use a USB memory device of a different type.
• To ensure proper operation of USB devices, do not connect the devices via a USB hub. Connect the devices directly to the USB connectors on the unit. Operation is not guaranteed when devices are connected via a USB hub, USB switch, or extension cable.

Overview

The NSR series is a hard disk recording server for network cameras. The NSR allows you to monitor and record network camera images (JPEG or MPEG-4). It also allows you to play back the recorded images and search through it, making the NSR a truly versatile monitoring system.

Control compatible cameras from remote locations

You can pan, tilt, and perform zoom operations of compatible cameras.

Compatible with analog cameras

You can monitor and record images from analog cameras by connecting them directly to the unit[1] .

1) The NSR-1200/1100 requires an NSBK-A16 (optional) expansion, while the NSR-1050H has a built-in connector.

Large-capacity hard disks allow recording for long periods of time

Equipped with large-capacity hard disks, the unit is capable recording high-quality images for extended periods of time. For reference examples, see "Reference Data for Installation" (page 10).

Slim type (2U), space-saving 19-inch rack mounting model

With the optional rack mounting kit (sold separately), the unit can be installed in a standard universal pitch EIA 19-inch rack.

High-resolution up to 480 fps (VGA, JPEG) recording

The NSR-1200 can support up to 64 cameras, the NSR-1100 can support up to 32 cameras, and the NSR-1050H can support up to 20 cameras. The NSR-1200 records images at a total frame rate of 480 fps[1] (240 fps with the NSR-1100, 120 fps with the NSR-1050H) in VGA resolution (640×480 pixels)[2] and JPEG image format (1 frame about 31 KB) for a crisp image quality.

1) Maximum frame rate when 16 cameras are connected to the recorder. Each camera has a frame rate of approximately 30 fps. This frame rate may become less because of fragmentation on the internal hard disks. Values are based on Sony measurements. These values are not guaranteed, as performance may change due to the user's operating environment.
2) In QuadVGA resolution ($1,280 \times 960$), the frame rate is 1/4 that of VGA resolution.

High reliability

The NSR-1200 supports RAID 5[1] and peforms with high reliability. The system can continue functioning even if one of the hard disks develops a malfunction. Similarly, because the system software and settings are stored on the internal flash memory of the NSR, if the

system software develops a malfunction, lightning-quick restoration of the system is possible. The NSR also supports uninterruptible power supplies (UPS), making them extremely reliable systems.

1) RAID 5 is a system for dividing and storing data and parity (error correcting codes) onto more than one hard disk drive. Although this system allows continued operation should one of the hard disks malfunction, it does not guarantee restoration of lost data. In addition, due to high internal processing loads during reconstruction after you replace the malfunctioned hard disk, the unit may not be able to record images at the configured recording rate while reconstruction is in progress.

Other features

- You can display the images from up to 64 cameras (8×8 images) on one screen.
- The NSR is capable of manual, scheduled, and alarm recording, among others.
- The NSR is equipped with a motion detection function[1] (Video Motion Detection (Recorder)).
- Run searches for recorded images by camera name, date, alarm, and other methods.
- Create privacy zones by using the dynamic masking functions[2]. Dynamic masking covers pan, tilt, and zoom.
- Precise alarm processing is made possible by performing the various types of filtering[3] that use the image processing results sent from the camera in the form of object information metadata. Because filtering can be applied to metadata that has already been recorded, you can also search for areas of interest after recording is finished.
- Audio recording and playback[4] are also supported from compatible cameras.

1) Some functions are limited depending on the number of cameras connected.
2) Some functions are limited depending on which camera models are connected.
3) To perform motion detection and object detection using metadata, a camera that supports motion detection by metadata is required. The use of metadata is supported for up to 32 cameras.
4) Optional audio amplifiers or speakers are required.

Important

This manual only describes how to install and configure the NSR. For detailed explanations on how to use the unit, refer to the User's Guide (PDF).

System Requirements

The hardware required in order to use this recorder are as follows.
- Sony Network cameras
  Contact your dealer for details about compatible Sony network cameras.
- Monitor[1]
- USB keyboard[2]
- USB mouse[3]
- USB remote controller[4]
- Network switch
- 1000Base-T/100Base-TX/10Base-T cable
- USB memory device[5]

1) This unit supports HDMI-compatible devices and computer displays that support RGB input.
   The following resolutions can be specified.
   - Full High-Definition ($1,920 \times 1,080$)
   - WUXGA ($1,920 \times 1,200$)
   - Full Wide XGA ($1,360 \times 768$)
   - UXGA ($1,600 \times 1,200$)
   - SXGA ($1,280 \times 1,024$)
   - XGA ($1,024 \times 768$)
2) Use a USB keyboard with a cable. However, keys other than the standard may not function. Wireless or infrared USB keyboards may also not function properly.
3) Use a USB mouse with a cable. However, three-button or wheel mice may not function properly. Wireless or infrared USB mice may also not function properly.
4) You can use a remote controller to control pan, tilt, and zoom operations for cameras.
   - This unit supports IP Desktop USB controllers from CH Products. Other remote controllers are not supported.
5) Required when backing up system information such as logs.
   - This unit supports standard USB 2.0 Mass Storage devices. Depending on the type of USB 2.0 Mass Storage device, however, errors may occur when writing data to the device. If errors occur when writing data, use a USB memory device of a different type.

Note

When using displays that support both HDMI and RGB input, we recommend using RGB input.

Package Contents

Check that the following items are included in this package:

NSR-1200/1100
- NSR-1200/1100 Surveillance Recording Server (1)
- Front panel key (2)
- Installation Manual (this document) (1)
- First Step Guide (1)
- Monitoring Window Operations Guide (1)
- Safety Regulations (1)
- WEEE booklet (1)
- Warranty booklet (1)
- Rubber feet (4)

NSR-1050H
- NSR-1050H Surveillance Recording Server (1)
- Front panel key (2)
- Analog camera input cable (1)
- Installation Manual (this document) (1)
- First Step Guide (1)
- Monitoring Window Operations Guide (1)
- Safety Regulations (1)
- WEEE booklet (1)
- Warranty booklet (1)
- Rubber feet (4)

> **Notes**
>
> - This package may contain additional hardware and/or documentation for those options.
> - Save the boxes and packing materials for future use.
> - The rack mounting kit (NSR-RM1) is optional (sold separately).

Downloading Files Stored on the NSR

Documents, such as operating manuals, and tools are stored on the NSR unit. Perform the following to download files stored on the NSR unit.

1 Use an FTP client such as Internet Explorer to specify the following URL on your computer.
ftp://ftptool@<NSR IP address>

2 Enter the following user name and password.
User name: ftptool
Password: ftptool

> **Note**
>
> To change the user name and password, change the [Enable user to Get Tools from Remote] configuration in "FTP" of the Setup Menu. In addition, if you change the user name, you must also change the address that follows "ftp://" in the specified URL to the new "user name@<NSR IP address>."

The following folders and files appear in the FTP client.

3 Click the folders that contain the files you desire.

Folder
Manual: Contains operating manuals (PDF).
SourceCode: Contains GPL/LGPL source code and other such data.
Tool: Contains RealShot Manager Advanced and Media File Player.
File
README.txt: Contains information on each folder.

The files contained in each folder are displayed.

4 Click the files you desire to download them.

Using the PDF Manual

The NSR stores operation manuals and other documents (Japanese, English, French, German, Italian, Spanish, Simplified Chinese and Russian versions).
The copies of these manuals are created in pdf (Portable Document Format).

Preparations

The following software must be installed on your computer in order to use the operation manuals stored on the NSR.
• Adobe Reader Version 6.0 or higher

Note

If Adobe Reader is not installed, you can download it from the following URL:
http://www.adobe.co.jp/

Adobe and Adobe Reader are trademarks of Adobe Systems Incorporated in the United States and/or other countries.

Viewing PDF Manuals

1 Refer to "Downloading Files Stored on the NSR," and download the manual for your language from the "Manual" folder on the NSR.

2 Double-click the downloaded file.
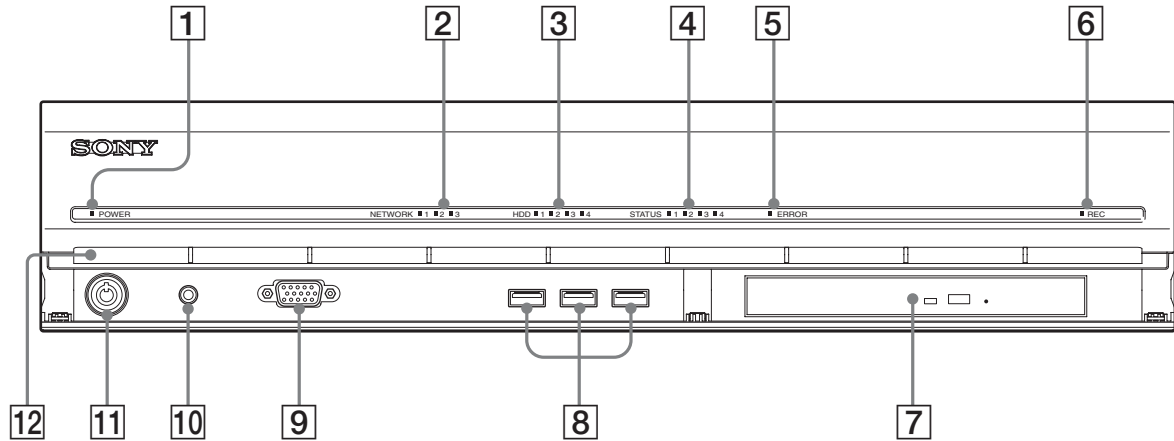
Note

Depending on the version of Adobe Reader you are using, the file may not display properly. If the file does not display properly, download the latest version of Adobe Reader from the URL found in the "Preparations" section.

Features and Functions

Front (When the Cover is Opened)

NSR-1200/1100/1050H

1 **Power LED**
Lights green when the unit is turned on.
Lights amber when it is on standby.

2 **Network LED (1 to 3)**
Lights green when there is activity at the corresponding
LAN connector at the rear of the NSR.

3 **HDD LED**
Blinks green when the internal hard disks are accessed.
Lights amber when an error occurs with a hard disk.

4 **Status LED (1 to 4)**
Lights in sequence (1, 2, 3, 4) when the NSR starts.
When an error occurs, the corresponding status LED
lights together with the error LED, which lights or blinks
to indicate the type of error.
For details, see "STATUS LED" (page 30).

5 **Error LED**
Lights or blinks when an error occurs.

6 **REC LED**
Lights when recording images.

7 **DVD/CD drive**
Use this drive to write data from the NSR hard disks to
DVD and CD.

8 **USB connector**
Use this connector to connect a USB keyboard, mouse,
or USB flash memory to the NSR.

9 **Monitor connector 1**
Use this connector to connect a monitor.
Monitor connector 1 (and monitor connector 1 on the
rear of the unit) and HDMI monitor connector 1 on the
rear of the unit cannot be used at the same time.

10 **Power switch**
Press this to turn on the unit. (You cannot turn off the
unit with this switch.)

11 **Lock**
Use this in conjunction with the supplied front panel key
to lock the front bezel. When the front bezel is locked,
you cannot pull out the front bezel. Also, do not lock the
front bezel when the front bezel is pulled out. You can
distinguish the locked position from the unlocked
position by looking at the lock, as illustrated below.

The front bezel is
locked

The front bezel is
unlocked

12 **Vent holes**
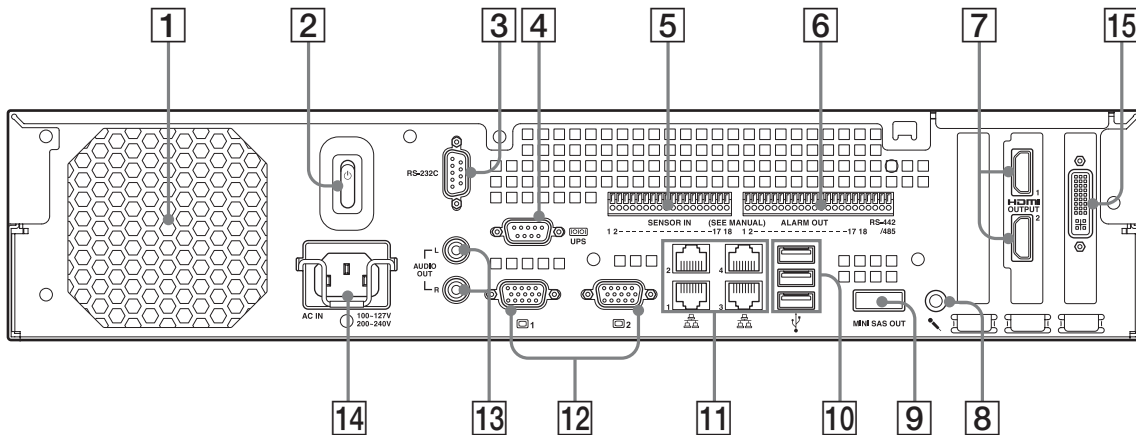These openings allow air to flow from the front of the
NSR to the rear.
Do not block the vent holes, allow dust to accumulate in
the inner mesh of the vent holes, or obstruct the airflow
in any way. Obstructing the airflow allows heat to build
up inside the NSR and may result in fire or damage.

Rear

NSR-1200/1100
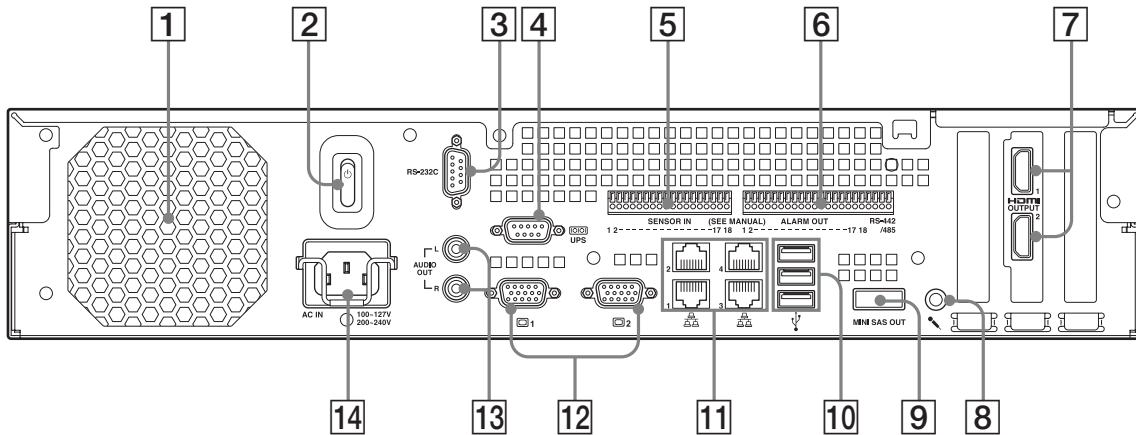
NSR-1050H

1 Fan
Take care not to obstruct the fan grille. If the grille is obstructed, heat may build up in the unit, leading to damage and/or fire.

2 Power switch
Press the switch in the ⏻ position to turn on the unit.

3 RS-232C Connector
Use this connector to control analog cameras.
This connector cannot be used at the same time as the RS-422/485 connector (four rightmost pins on **6** alarm output connector).

4 UPS connector (RS-232C)
Use this connector to connect the control line of the uninterruptible power supply (UPS).

5 Sensor input connector
Use this connector to connect the sensor input lines.
For connection details and wiring diagrams for sensor inputs, see "I/O Port" (page 31).

6 Alarm output connector
Use this connector to connect the alarm output lines.
For connection details and a wiring diagram for alarm output, see "I/O Port" (page 31).

7 HDMI monitor connectors (1 and 2)
Use these connectors to connect monitors that support HDMI input.
HDMI monitor connector 1 and **12** monitor connector 1 (and monitor connector 1 on the front of the unit) cannot be used at the same time, while HDMI monitor connector 2 and **12** monitor connector 2 cannot be used at the same time.

[8] **Audio input connector**
Use this connector to input audio from a peripheral audio device, such as a microphone.
Plug-In Power microphones are supported.

[9] **Mini-SAS output connector**
Use this connector to connect the mini-SAS cable used for connecting an NSRE-S200.
The NSRE-S200 is an optional expansion storage unit.

[10] **USB connector**
Use this connector to connect a USB keyboard, mouse, or USB flash memory to the NSR.

[11] **LAN connectors (1 to 4)**
Use these connectors to connect 10 Base-T, 100 Base-TX, or 1000 Base-T network cables.
LAN1: Network cameras
LAN2: Remote Clients
LAN3: Used for future expansion
LAN4: Used for future expansion

[12] **Monitor connectors (1 and 2)**
Use these connectors to connect a monitor.
Monitor connector 1 (and monitor connector 1 on the front of the unit) and [8] HDMI monitor connector 1 cannot be used at the same time, while monitor connector 2 and [8] HDMI monitor connector 2 cannot be used at the same time.

[13] **Audio output connectors (L and R)**
Use these connectors to output audio to a peripheral audio device.

[14] **Power supply connector**
Use this connector to connect the power cord.

[15] **Analog camera cable input connector**
Use this connector to connect analog cameras via the analog camera input cable.
The NSR-1050H is standard equipped with this connector, but the NSR-1200/1100 requires an NSBK-A16 (optional) expansion.

Reference Data for Installation

Current Consumption and Inrush Current

Model	AC input voltage	Full loading	Inrush current
NSR-1200	100 V	2.66 A	
	220 V	1.14 A	
NSR-1100	100 V	1.84 A	
	220 V	0.79 A	
NSR-1050H	100 V	1.75 A	13 A
	220 V	0.76 A	
NSRE-S200	100 V	0.79 A	
	220 V	0.34 A	

Storage Capacity for Recorded Data

The storage capacities for recorded data on the NSR-1200/1100/1050H and optional expansion storage are as follows.

Model	Storage capacity for recorded data
NSR-1200	1,366 GB
NSR-1100	886 GB
NSR-1050H	443 GB
NSRE-S200	1,396 GB

* Data capacities are approximations based on the following equation for 1 GB:
$1,024 \times 1,024 \times 1,024 = 1,073,740,000$ bytes

Recording Duration Guide

Server	Expansion storage	Number of cameras	Codec (size)	Number of days	Bitrate	Frame rate
NSR-1050H	0 units	8	MPEG4 (VGA)	10	512 kbps	10.00 fps
NSR-1100	0 units	16	MPEG4 (VGA)	10	512 kbps	10.00 fps
NSR-1200	0 units	16	MPEG4 (VGA)	16	512 kbps	10.00 fps
NSR-1200	7 units	16	MPEG4 (VGA)	60	1,024 kbps	20.00 fps

Server	Expansion storage	Number of cameras	Codec (size)	Number of days	Quality	Frame rate
NSR-1050H	0 units	4	JPEG (VGA)	4	Level 5	10.00 fps
NSR-1100	0 units	4	JPEG (VGA)	10	Level 5	8.00 fps
NSR-1200	0 units	16	JPEG (VGA)	30	Level 5	1.00 fps
NSR-1200	7 units	16	JPEG (VGA)	30	Level 5	9.00 fps

Number of Cameras

Maximum number of cameras

Model	Maximum number of cameras
NSR-1200	64
NSR-1100	32
NSR-1050H	20

Maximum number of analog cameras (included in total number of cameras)

Model	Maximum number of analog cameras
NSR-1200	16 (with optional NSBK-A16)
NSR-1100	16 (with optional NSBK-A16)
NSR-1050H	16

Maximum number of megapixel cameras (included in total number of cameras)

Model	Maximum number of cameras
NSR-1200	8
NSR-1100	4
NSR-1050H	4

Ex.) NSR-1050H (maximum number of cameras: 20)
IP cameras :   12
IP cameras (megpixel) : 4
Analog cameras :   4

Preparation Steps

Step 1: Installation (page 12)

↓

Step 2: Connections (page 15)
Connect each device to the unit.

↓

Step 3: Settings (page 20)

Turn on the unit.

↓

Configure initial settings with the Setup Wizard.

↓

Log on.

↓

Perform basic configuration.

| Register cameras automatically. | | Select cameras to register. |

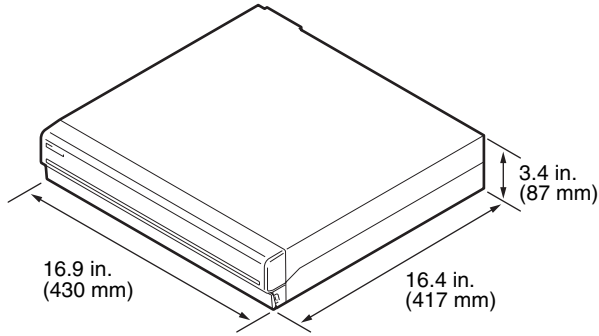| Configure alarm recording. | | Configure scheduled recording. |

↓

Step 4: Verifying Operation (page 27)

↓

If advanced configuration is necessary
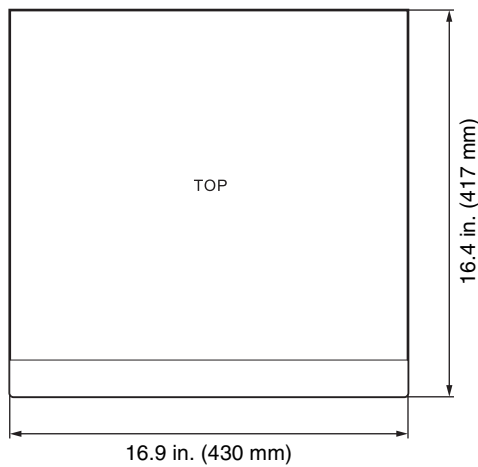Refer the User's Guide (PDF).

Step 1: Installation

Before setting up, be sure that the location for installation provides sufficient space and strength to support the unit.
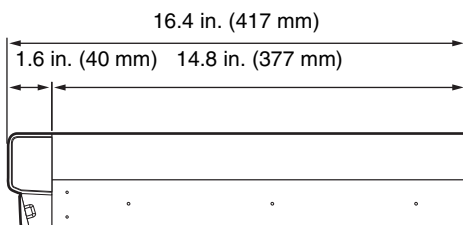The NSR-1200 weighs approx. 13.5 kg (29.8 lb.), the NSR-1100 weighs approx. 12 kg (26.7 lb.), and the NSR-1050H weighs approx. 11.5 kg (25.4 lb.). The dimensions for the unit are as follows.
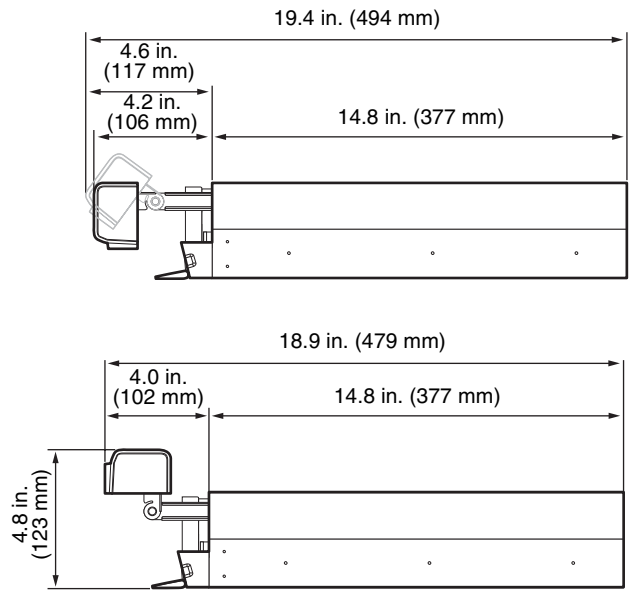

3.4 in. (87 mm)

16.9 in. (430 mm)

16.4 in. (417 mm)

Top

TOP

16.4 in. (417 mm)

16.9 in. (430 mm)

When the front bezel is closed

16.4 in. (417 mm)

1.6 in. (40 mm)   14.8 in. (377 mm)

When the front bezel is opened

19.4 in. (494 mm)

4.6 in. (117 mm)

4.2 in. (106 mm)

14.8 in. (377 mm)

18.9 in. (479 mm)

4.0 in. (102 mm)

14.8 in. (377 mm)

4.8 in. (123 mm)
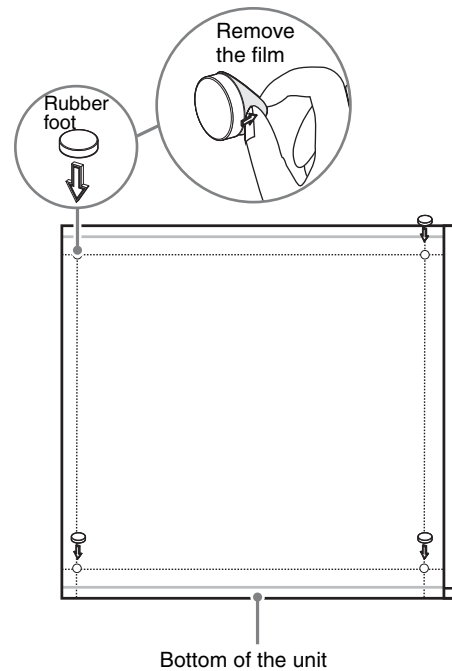
You can install the unit on a rack using the optional rack mounting kit.

Installation Without a Rack

Attach the provided rubber feet to the recorder.
Place the recorder upright so that the bottom surface is visible. Then affix the adhesive surfaces of the rubber feet on the bottom of the recorder as illustrated below.

Remove the film

Rubber foot

Bottom of the unit

Rack Mount Installation

Install the NSR in a rack using the optional rack mounting kit (sold separately).

Warning

- Do not use a rack mounting kit other than the optional mounting kit (sold separately) for the NSR, as doing so is dangerous and may result in fire, shock, or injury.
- If you mount the NSR in a rack, make sure not to place heavy object on it.
- Before mounting the NSR in a rack, we recommend that you mark its intended position in the rack with a felt-tip pen. Mounting the NSR in the rack other than horizontally could result in malfunctions.
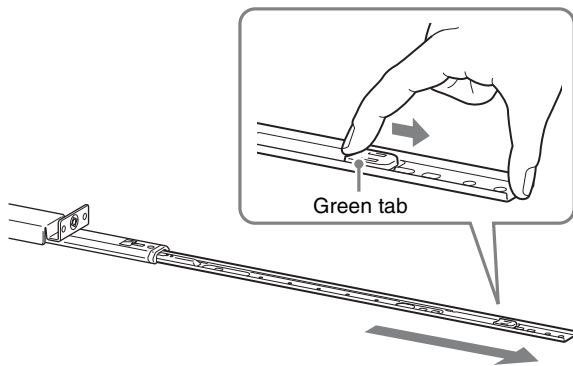- To order a rack mounting kit, contact your retailer.

Pulling Out the Inner Rails

Pull out the inner rails from the rail assemblies.

1 Pull out the inner rail from one of the rail assemblies as far as it can go.
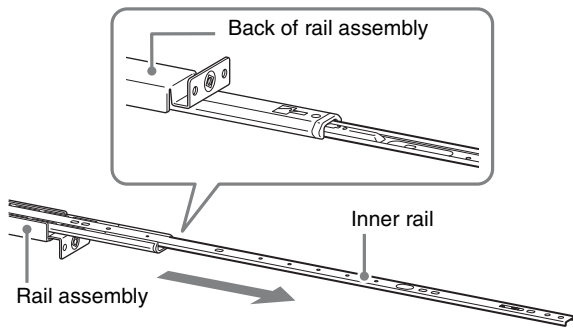
2 Turn the rail assembly over. As you pull the green tab outward to release the lock, pull the inner rail all the way out.

**3** Repeat the same procedure with the other rail assembly to pull out its inner rail.

Note

The inner rail will be installed on the NSR, while the rail assembly will be installed on the rack.

Preparing the NSR

Use the supplied fasteners and screws to install the inner rail on the NSR.

1 Use the supplied flat head screws to attach the mounting ears to the front of the side panel.
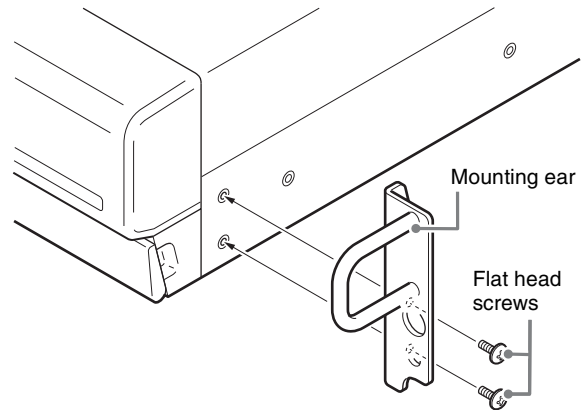
2 Use the remaining supplied round head screws to install the rails to the NSR, as illustrated.
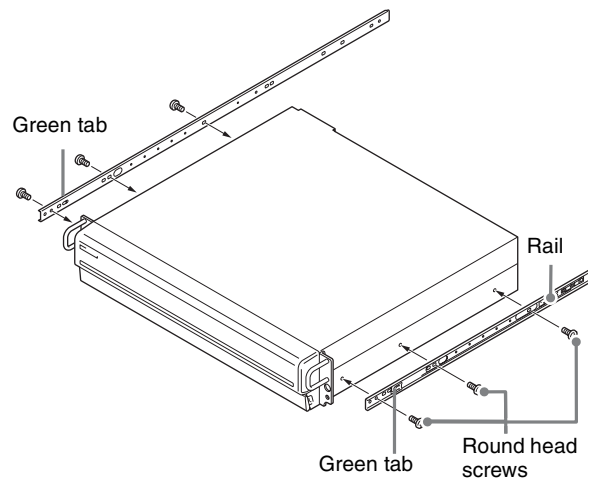
Caution

Using screws other than the supplied screws may damage the unit. Be sure to use the supplied screws to install the rails.

Preparing the Rack

Install the rails on the rack.

1 Determine where you want to install the rails on the rack.
We recommend marking this position with a marker or felt tip pen.

Caution

Rails installed at different heights could result in NSR malfunctions.

2 Install the rails on the rack.
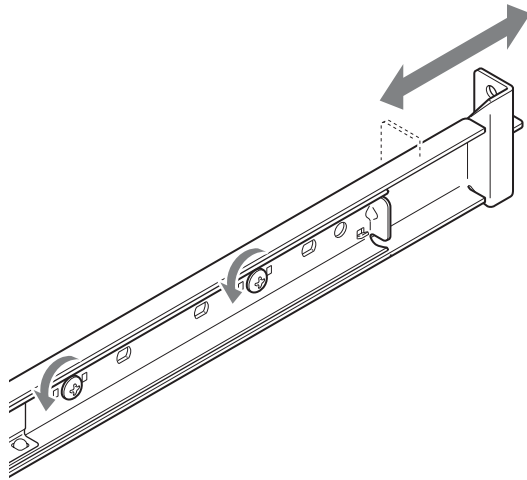(1) Adjust the length of the rails to match the length of your rack.

(2) Use the supplied truss screws and washers to secure both ends of the rails to the rack.

Truss screws

Washers
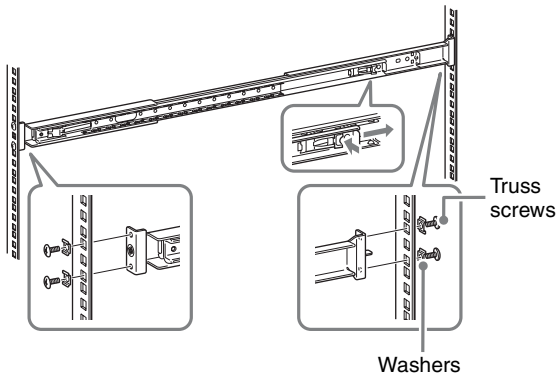
Mounting the NSR on the Rack

Insert the NSR into the rack, and then secure it.

Caution

At least two people are needed in order to handle the unit to prevent personal injury.

1 Pull the sliding rails from the rail assemblies.
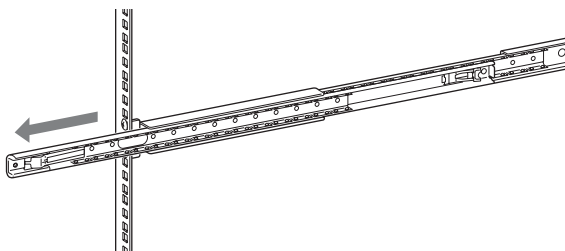
2 Lift the NSR, fit the inner rails into the slide rail grooves (white), and then slide the assembly until it stops.

Inner rail
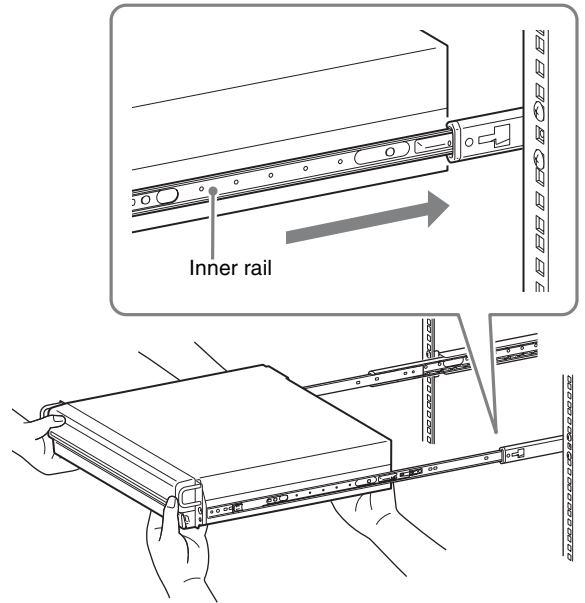
3 As you pull the green tab inward to release the lock, slide the NSR as far as it can go.

Green tab
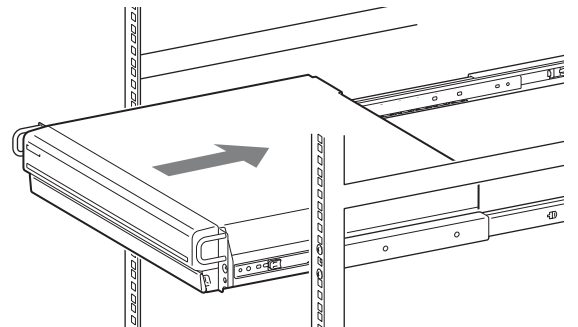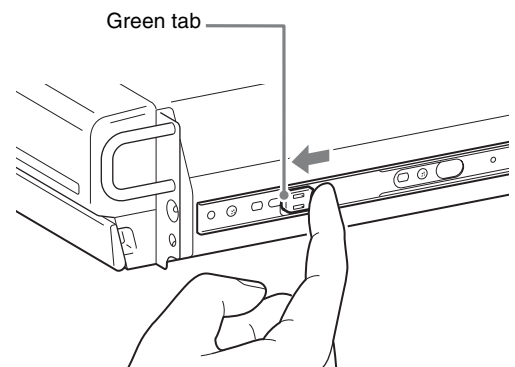
4 Use the supplied round head screws to secure the NSR to the rack.

Round head screw
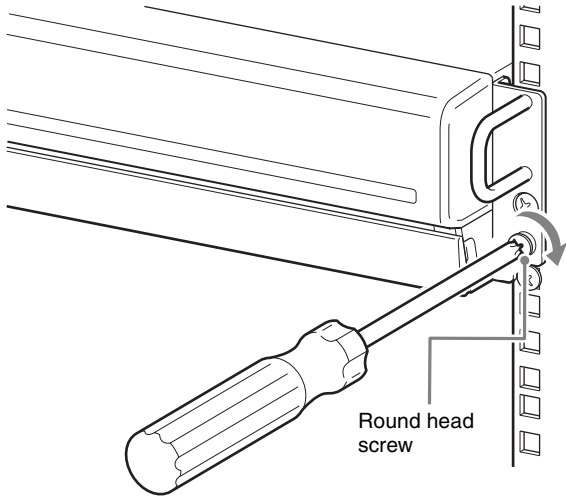
Installing Optional Accessories

For details on installing an NSRE-S200, refer to the operating instructions supplied with the NSRE-S200. For details on installing an NSBK-A16, contact your Sony dealer.

Step 2: Connections

Connect each device to the unit.

Connecting a Monitor

When connecting one monitor, connect it to analog RGB monitor connector 1 or HDMI monitor connector 1. When connecting a second monitor, connect it to analog RGB monitor connector 2 or HDMI monitor connector 2.
For details, see "Monitor Connection Examples" (page 28).

Example) When connecting to rear monitor connectors

Monitor 1

Monitor connector 1

Monitor 1

Monitor 2

Monitor connector 1   Monitor connector 2
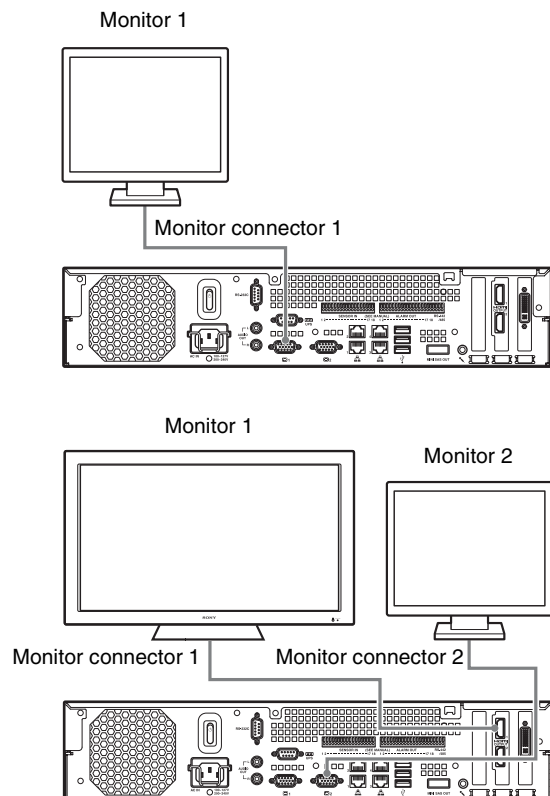
Recommended connector use while operating the unit

Monitor		Connectors to use			
		HDMI monitor connector 1	HDMI monitor connector 2	Analog RGB monitor connector 1	Analog RGB monitor connector 2
One monitor	HDMI monitor	◯	–	–	–
	Analog RGB monitor	–	–	◯	–
Two monitors	HDMI monitor × 2	◯	◯	–	–
	Analog RGB monitor × 2	–	–	◯	◯
	HDMI monitor and Analog RGB monitor	◯	–	–	◯
		–	◯	◯	–

Notes

- There are three monitor connectors labeled "1" (analog RGB ×2; HDMI ×1) and two monitor connectors labeled "2" (analog RGB ×1; HDMI ×1), but only one of each (1 and 2) can be used at any one time.
- Do not turn on the unit while monitors are connected to analog RGB monitor connector 1 on both the front and rear of the unit.
- When operating the unit with only one analog RGB monitor, do not connect the monitor to analog RGB monitor connector 1 on the front of the unit while the unit is turned on.
- When connecting two analog RGB monitors, do not use the HDMI monitor connectors.
- When using HDMI monitors, be sure to connect the HDMI monitor and turn it on before turning on the unit.
- Observe the following restrictions when using analog RGB monitor connector 1 on the front of the unit.
  - Do not connect monitors to HDMI monitor connector 1.
  - Do not connect to analog RGB monitor connector 1 on the front and rear of the unit at the same time while the unit is turned on. The monitors will not be recognized if both connectors are used.
- When monitors are connected via a monitor switch, images may not always display. We recommend connecting monitors directly to the unit.

Connecting the Keyboard, Mouse and Remote Control Unit

Connect the devices to the USB connectors on the front and rear of the unit.

Example) When connecting to the USB connectors on the rear
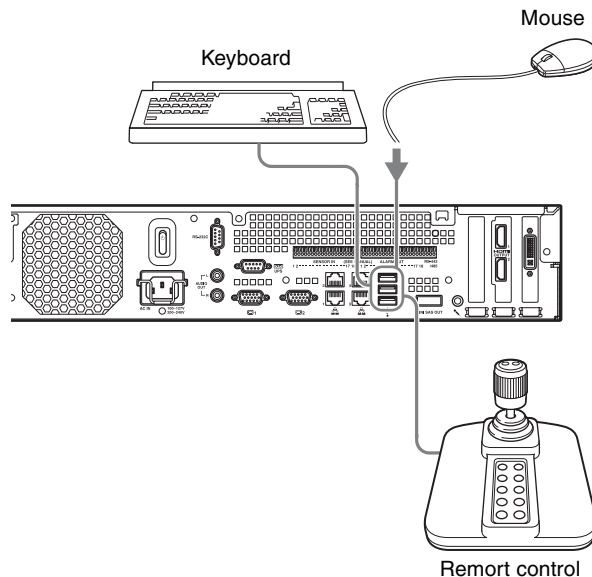
Notes

- This unit supports IP Desktop USB controllers from CH Products. Other remote controllers are not supported.
- When using USB devices, be sure to read "Precautions for using USB devices" (page 4) in the "Usage Precautions" section beforehand.

Connecting the Power Cord

Connect the power cord to the power supply connector. Attach the safety clip to prevent the power cord from disconnecting.
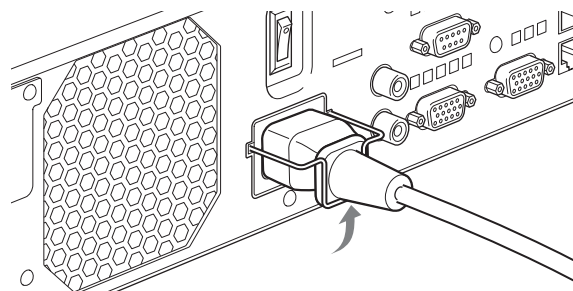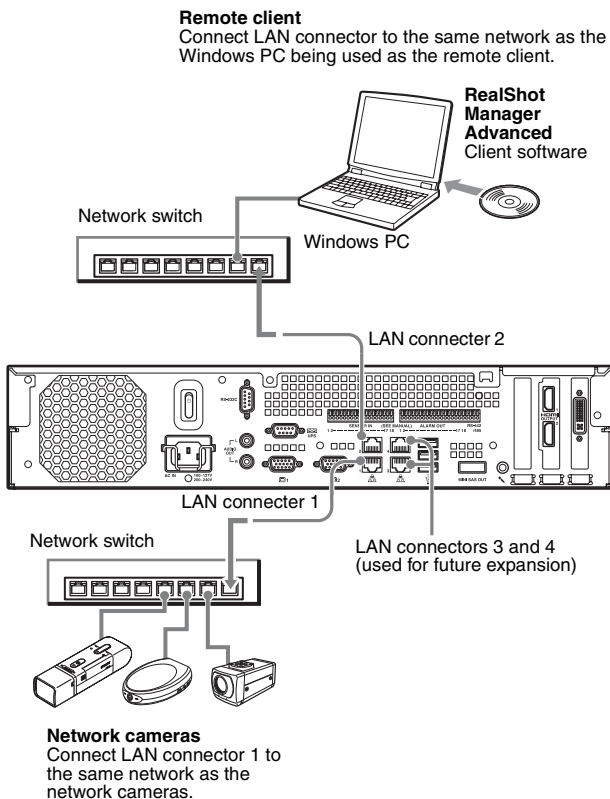
- Before installing, carefully read "Important Information About Safety" (page 3). When using the unit in combination with multiple NSR units or an optional NSRE-S200, make sure that the power supply is sufficient.
- For details on the current consumption and inrush current for the NSR-1200/1100/1050H and NSRE-S200, see "Reference Data for Installation" (page 10).

Connecting to a Network

Connect to the network as follows.

Remote client
Connect LAN connector to the same network as the Windows PC being used as the remote client.

RealShot Manager Advanced Client software

Network switch

Windows PC

LAN connecter 2

LAN connecter 1

LAN connectors 3 and 4
(used for future expansion)

Network switch

Network cameras
Connect LAN connector 1 to the same network as the network cameras.

Connections to remote clients

When a remote client is necessary, you can use the RealShot Manager Advanced client software supplied with this unit.

- Use the version of RealShot Manager Advanced supplied with this unit. For details on how to download the installer for RealShot Manager Advanced, see "Downloading Files Stored on the NSR" (page 6). You can also download the installer for the latest version of RealShot Manager Advanced from the following URL.
http://www.sony.co.jp/net/Products/RSMAd/license_form.html
For details on installation and connecting to the NSR, refer to the RealShot Manager Advanced Installation Guide (PDF).
- RealShot Manager Advanced client software operates on Windows computers. For details on recommended system specifications, refer to the release notes

included in the install archive for RealShot Manager Advanced client software.
- When using RealShot Manager Advanced as a remote controller for the NSR, select [Client] during installation of RealShot Manager Advanced.
- When connecting to the user area network, use LAN connector 2.
- For details on NSR settings when using the RealShot Manager Advanced client software, see "Configurations for Using RealShot Manager Advanced Client Software" (page 26).

LAN connectors 3 and 4 (used for future expansion)

As LAN connectors 3 and 4 are channel bonded for network redundancy, only one IP address can be assigned for both connectors. Be sure to connect LAN connectors 3 and 4 to the same network switch.
When both LAN connectors 3 and 4 are connected to the network switch, data communication is enabled for only one of the two the connectors.
The active network is determined at startup, and you cannot specify which network to use. If the active network fails and data communication is disabled, data communication will resume using the other network.
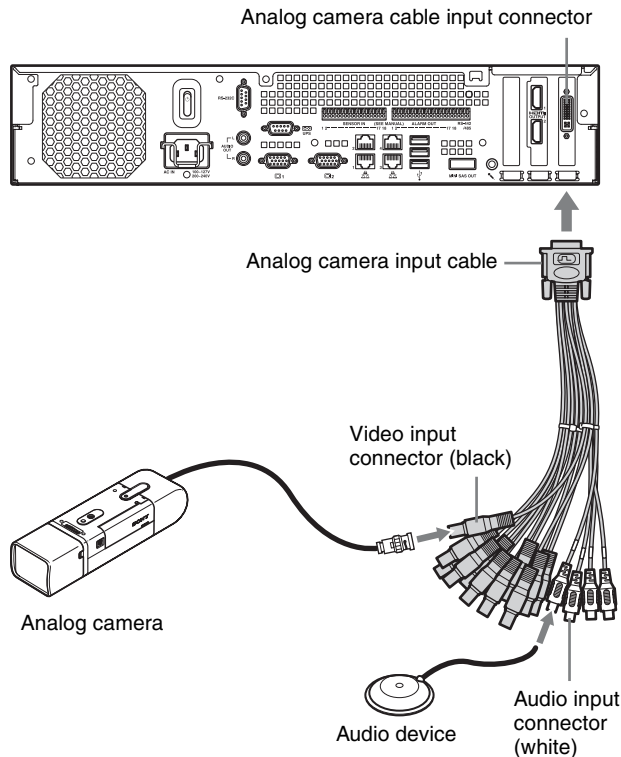
Notes

- The default IP addresses for this unit are as follows.
  - LAN connector 1: 192.168.0.1
  - LAN connector 2: 192.168.1.1
  - LAN connector 3: 192.168.2.1
  - LAN connector 4: 192.168.2.1
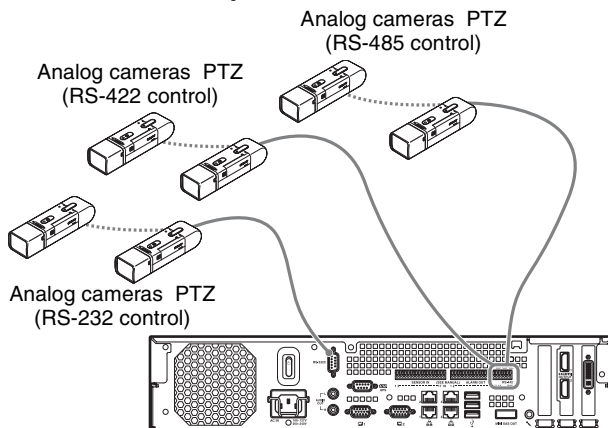- If you want to change the default IP addresses, refer to the User's Guide (PDF).

Connecting an Analog Camera

Connect the analog camera using the supplied analog camera input cable.

To control pan, tilt, and zoom operations, connect a camera control cable to the RS-232C connector or the RS-422/485 connector (four rightmost pins on the alarm output connector). (Only one of these connectors (RS-232C, RS-422, RS-485) can be used at any one time.)

Analog camera cable input connector

Analog camera input cable

Video input connector (black)

Analog camera

Audio device

Audio input connector (white)

Connection Example

Analog cameras PTZ (RS-485 control)

Analog cameras PTZ (RS-422 control)

Analog cameras PTZ (RS-232 control)

Caution

When using cameras and power supply units that superimpose DC voltage on the video coaxial cable, pay close attention to the coaxial cable wiring. If the camera cable on which DC voltage is superimposed is connected to the NSR, malfunctions may occur.

Analog cameras

Power supply unit

VIDEO OUT

NSR

Coaxial cable

Coaxial cable on which DC voltage is superimposed

Be careful not to connect the coaxial cable for the analog cameras to the NSR unit.
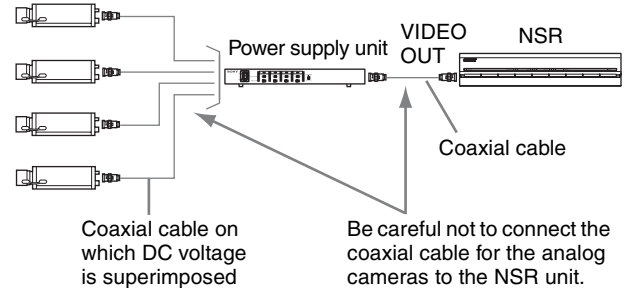
Notes

- The NSR-1050H is standard equipped with the analog camera cable input connector, but the NSR-1200/1100 requires an NSBK-A16 (optional) expansion.
- When using pan, tilt, and zoom operations, you must configure a unique control number for each analog camera using the dip switches or menus. For details on configuring control numbers, refer to the operating instructions for the analog camera.
- For details on the pin assignment for the RS-422/485 connector, see "Pin Assignment of I/O Port" (page 31).

Connecting an NSRE-S200

Use the mini-SAS cable supplied with the optional NSRE-S200 to connect the NSR-1200/1100/1050H to the NSRE-S200 as follows.

You can connect up to seven NSRE-S200 units to the NSR-1200/1100/1050H.

For details on connection configurations, see "NSRE-S200 Connection Example" (page 29).

Note

Be sure to connect the NSR-1200/1100/1050H and the NSRE-S200 before turning on the power.

Connecting the NSR-1200/1100/1050H to the NSRE-S200

Mini-SAS cable

Mini-SAS output connector

Mini-SAS input connector
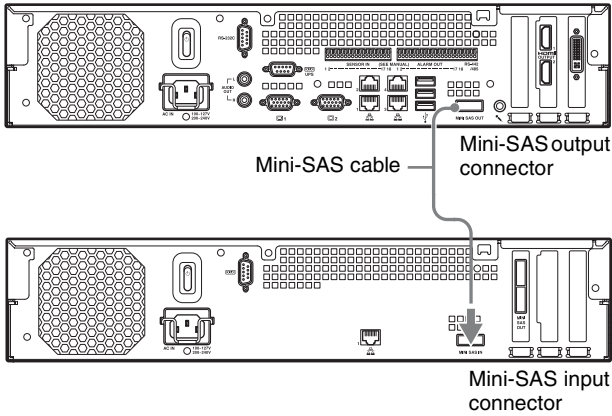
Connecting two NSRE-S200 units

Mini-SAS output connector

Mini-SAS cable

Mini-SAS input connector
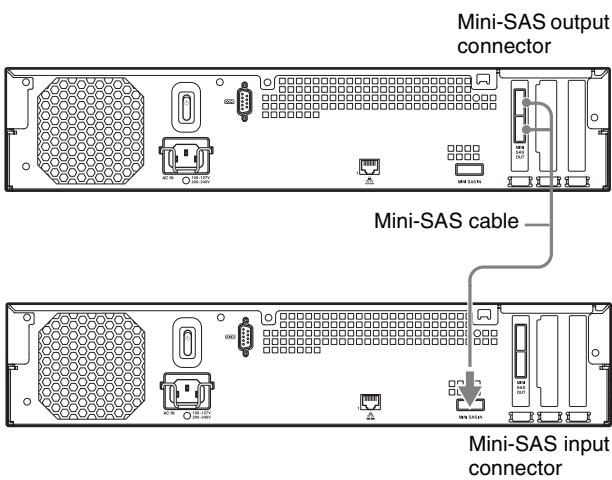
Note

The upper and lower mini-SAS output connectors on the NSRE-S200 are identical in function.

Connecting Other Devices

Connecting Sensor Inputs and Alarm Outputs

Connect the wires to the sensor input connector and the alarm output connector.
For details, see "I/O Port" (page 31).

Connecting an Uninterruptible Power Supply (UPS)

1 Connect the UPS to the power outlet.

2 Connect the NSR to the UPS with the supplied power cord.

3 Connect the NSR to the UPS with the dedicated serial cable to the serial connector on the rear of the NSR.

Power cord

Serial cable

To Power source

UPS
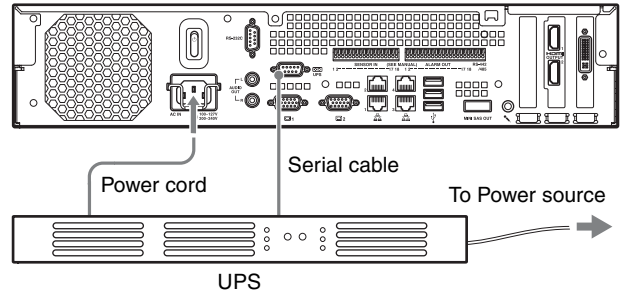
Connecting an Audio Output Device

Connect the audio output device to the audio output connectors (L and R).

Audio cable (L and R)
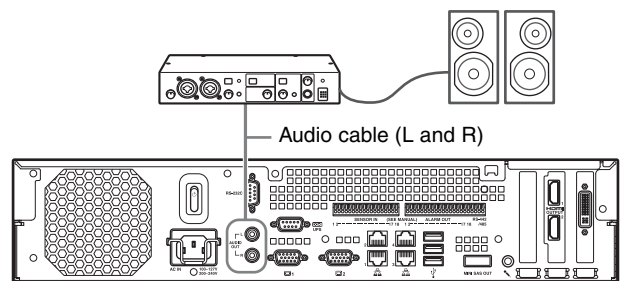
Step 3: Settings

This section provides information on how to turn on the unit, and general explanations on how to register cameras and other devices.

Turning On the Unit

When you press the power switch on the front or rear of the unit, the unit will turn on. When an optional NSRE-S200 is connected, wait until the NSRE-S200 has turned on before turning on this unit.

Caution

Take the inrush current into consideration when configuring power connections for systems that include multiple NSR units or an NSRE-S200 unit. For details on the inrush current, see "Reference Data for Installation" (page 10).

Front power switch

Rear power switch

The power LED on the front panel is lit green when the unit is turned on.

When you turn on the unit for the first time, the Setup Wizard starts automatically.
Continue to the following section, "Configuring Initial Settings with Setup Wizard."
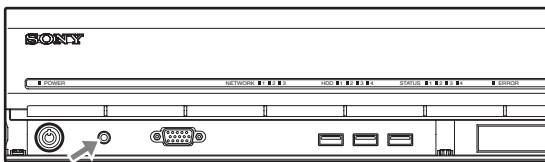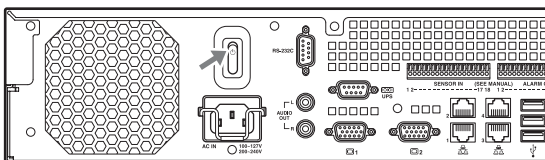
Notes

- The fan noise may be loud for about 2 seconds after turning on the unit. This is not a malfunction.
- If the unit was shut down through system operations, press the power button on the front panel or the power switch on the rear panel to turn on the unit.
- If a forced shutdown was performed previously, the unit may take longer to start up.

To turn off the unit

After logging on to NSR, click [⏻/👤] at the top of the "Main" screen, and select [Shutdown] from the menu that appears.

Note

Normally, the unit turns off after a few minutes. If the unit does not turn off after a few minutes, force shutdown by pressing the power switch on the rear panel of the unit in the ⏻ position for at least 5 seconds.

Configuring Initial Settings with Setup Wizard

This section explains the general flow of the Setup Wizard. For further details on settings, refer to "Changing System Settings" in the User's Guide (PDF).

The Setup Wizard starts automatically when you turn on the unit for the first time. You can configure the same settings afterward by accessing the logon screen, the Administration Menu, and then the Setup Menu.
For details, refer to "To access the Setup Menu from the logon screen" (page 24).

When you turn on the unit, the Setup Wizard starts after the following screen appears.

↓
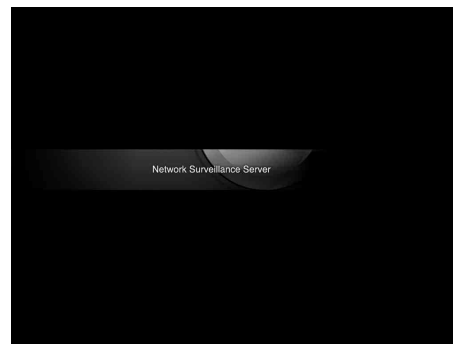
Click [Next].

↓

Read the user license agreement carefully, click [Accept], and then click [Next].

↓
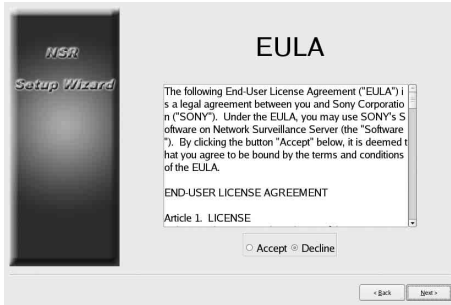
Select a display language, and click [Next].

↓

Select a language for the keyboard, and click [Next].

↓

Select a time zone, and click [Next].

↓

Set the date and time, and click [Next].
• When you select the [Enable NTP Server] check box, the unit acts as the NTP server for date and time synchronization.
• When you select the [Synchronize with NTP Server] check box, you can synchronize the date and time with a different NTP server.
• If the date and time cannot be synchronized with the Windows server as the NTP server, you can select the [Synchronize with Windows Server] check box to force synchronization with the Windows NTP server.

↓
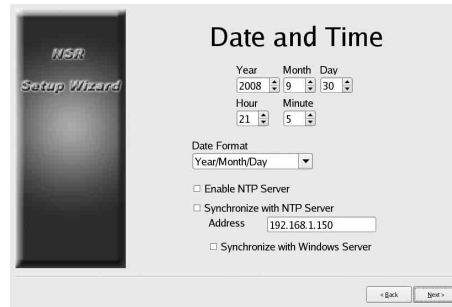
Set the IP address for each server, and click [Next].

↓
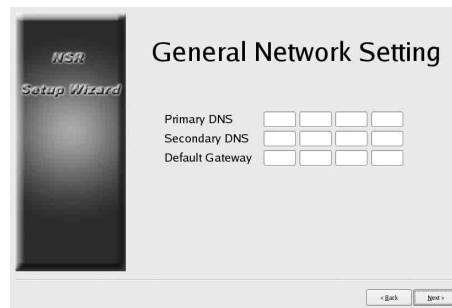
Set the IP address for LAN connector 1, and click [Next].

↓
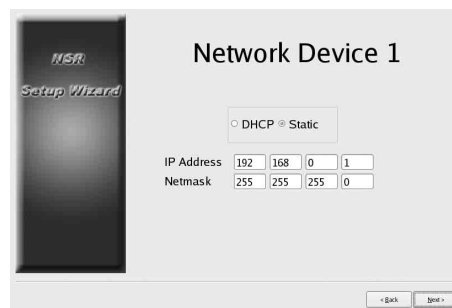
Set the IP address for LAN connector 2, and click [Next].

Network Device 2

○ DHCP ◉ Static

IP Address 192 168 1 1
Netmask 255 255 255 0

‹Back Next›

↓
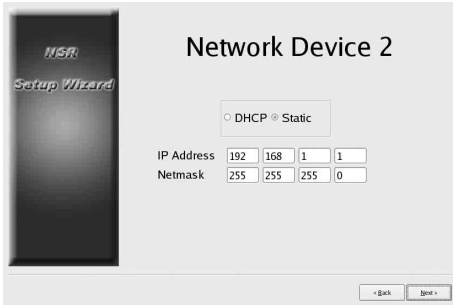
Set the IP address for LAN connector 3, and click [Next].

Network Device 3

○ DHCP ◉ Static

IP Address 192 168 2 1
Netmask 255 255 255 0

‹Back Next›

↓
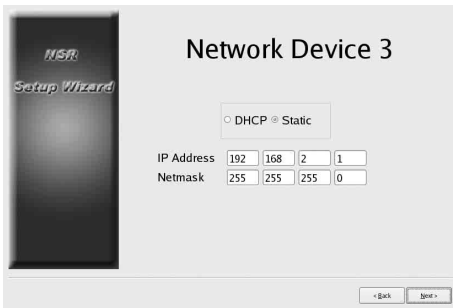
Configure settings for monitor 1, and click [Next].
• If you select [Auto], the type of monitor connected and its resolution are detected and configured automatically.
  For details on supported resolutions, see "System Requirements" (page 5).
• When connecting two monitors to the unit, select the [Dual Head] check box.

Monitor 1

☐ Dual Head
☑ Auto
☐ Generic Monitor

Generic LCD Display; LCD Panel 1024x768; 0; 31.5-4
Generic LCD Display; LCD Panel 1280x1024; 0; 31.5
Generic LCD Display; LCD Panel 1600x1200; 0; 31.5

☐ Others

Acer; Acer 54es; API9715; 31.0-54.0; 50.0-110.0
Acer; Acer 55; API0037; 30.0-56.9; 50.0-80.0
Acer; Acer 55e; API9701; 30.0-54.0; 50.0-110.0
Acer; Acer 56L; APIHC38; 30.0-64.0; 50.0-110.0
Acer; Acer 57i; API971B; 30.0-70.0; 50.0-110.0

Resolution 1024x768 ▼

‹Back Next›

↓

If connecting a second monitor, configure settings for monitor 2.
After configuring settings for the second monitor, restart the unit while the second monitor is connected

Monitor 2

☑ Auto
☐ Generic Monitor

Generic LCD Display; LCD Panel 1024x768; 0; 31.5-4
Generic LCD Display; LCD Panel 1280x1024; 0; 31.5
Generic LCD Display; LCD Panel 1600x1200; 0; 31.5

☐ Others

Acer; Acer 54es; API9715; 31.0-54.0; 50.0-110.0
Acer; Acer 55; API0037; 30.0-56.9; 50.0-80.0
Acer; Acer 55e; API9701; 30.0-54.0; 50.0-110.0
Acer; Acer 56L; APIHC38; 30.0-64.0; 50.0-110.0
Acer; Acer 57i; API971B; 30.0-70.0; 50.0-110.0

Resolution 1024x768 ▼

‹Back Next›

↓

Select the audio output connector to use, and click [Next].

Audio

◉ AUDIO OUT
○ HDMI

‹Back Next›

↓
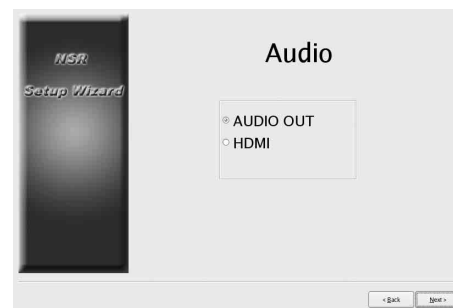
Configure partitions for the internal hard disk drive, and click [Next].
Specify the number of partitions, and select the percentage of total the capacity to assign each partition.

Internal Disk Partition

Volume Number: 1
Capacity: 443 GB

Number of Partitions   1 ▼

Partition1 [data1-1]   100% ▼   443 GB
Partition2 [data1-2]   10%   ▼   44 GB
Partition3 [data1-3]   10%   ▼   44 GB
Partition4 [data1-4]   10%   ▼   44 GB

Total: 100%

‹ Back   Next ›

↓
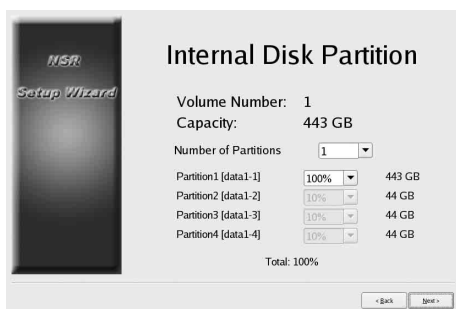
Set the server name, and click [Next].

Server Name

Server Name NSR1050_8E94

‹ Back   Next ›

↓
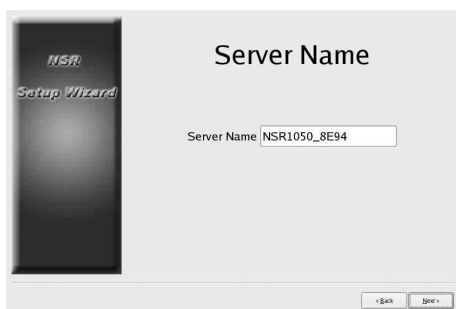
Configure analog camera connection settings, and click [Next].
Select the serial connector standard to which the camera you want to control will be connected, and configure settings such as baud rate and parity bits.
(This screen only appears when an NSR-1050H or NSBK-A16 (optional) is connected.)

Serial Port (Analog Camera)

○ RS-232C
○ RS-422
⊙ RS-485

Baud rate   9600 ▼   bps
Parity bit   none   ▼
Character length   8   ▼   bits
Stop bits   1   ▼   bits

‹ Back   Next ›

↓
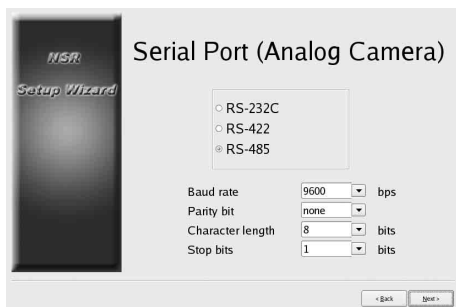
Select the video format for the analog cameras to be connected, and click [Next].
(This screen only appears when an NSR-1050H or NSBK-A16 (optional) is connected.)

Video (Analog Camera)

⊙ NTSC
○ PAL

‹ Back   Next ›

↓

Verify configurations, and click [Next].

Summary

Language : English
Keyboard : English
TimeZone : (GMT+09:00) Osaka, Sapporo, Tokyo
DateTime : Tue Sep 30 21:05:01 JST 2008
DateFormat : Year/Month/Day
Default Gateway: 0.0.0.0
Primary DNS: 0.0.0.0
Secondary DNS: 0.0.0.0
NIC 1 Type : Static
NIC 1 IP Address: 192.168.0.1
NIC 1 Netmask : 255.255.255.0
NIC 2 Type : Static
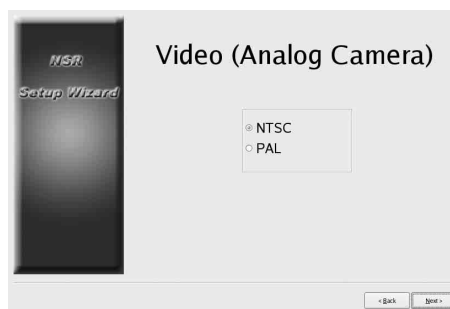
‹ Back   Next ›

↓

Click [Finish] when the restart confirmation message appears.

Warning

System will reboot to allow for new settings!

‹ Back   Finish

↓
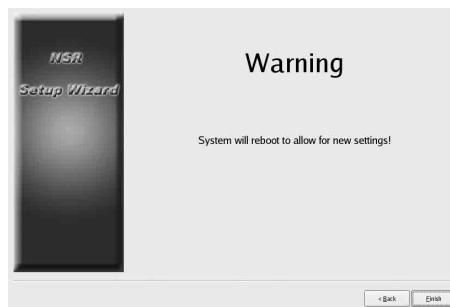
The unit restarts.

↓

The logon screen appears.
Continue to the following section, "Logging On."

To access the Setup Menu from the logon screen

① Click [Administration Menu].

↓

② Click [Setup Menu].
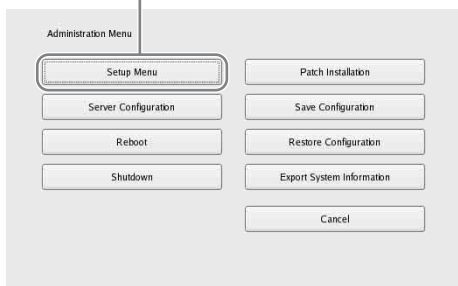
Logging On

Enter the user name and password, and click [Logon].
Default user name: admin
Default password: admin

When logon is successful, the Automatic Camera Registration dialog appears.
Continue to the following section, "Performing Basic Configuration."

Performing Basic Configuration

This section describes how to register and configure alarm recording for devices that are automatically detected. For details on how to register all automatically detected devices at once, refer to the First Step Guide (separate document).

To register a camera

Select [Open multiple camera registration window], and click [OK].

↓

Devices on the same network segment are automatically detected.

↓

Select the check boxes for the cameras you want to register, and click [Register].
For further details on settings, refer to "Registering Devices" in the User's Guide (PDF).

↓

The cameras are registered.

↓
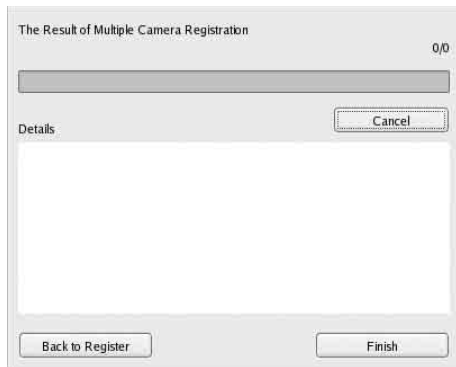
To configure alarm recording

Select [Automatic Alarm Record], and click [Next].

↓
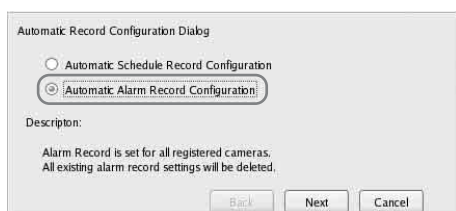
A confirmation screen appears.
Click [Next}.

↓

Verify configurations, and click [Finish].

↓
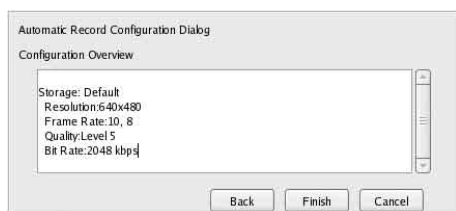
Alarm recording starts.

When configuration is complete, the "Main" screen appears.

After performing basic configuration, the values for each setting will be as follows.

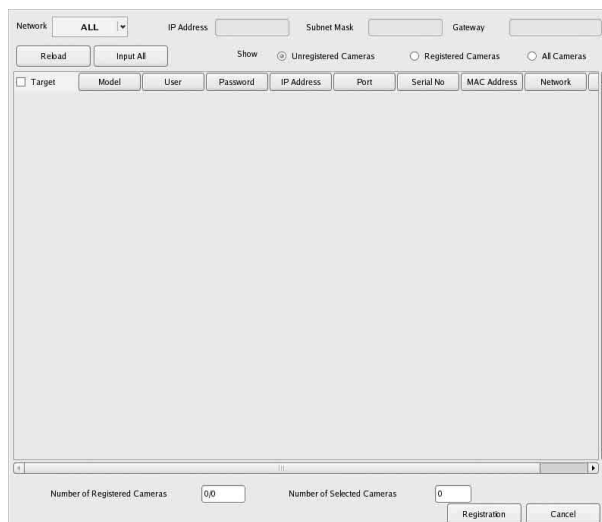| Setting	Scheduled recording	Alarm recording
Image size	Maximum image size supported by the camera.	
Codec	Codec that supports the maximum image size.(If supported by both JPEG and MPEG4, MPEG4 is selected.)	
Frame rate	JPEG: Depends on storage duration for recorded data. MPEG4: Depends on bitrate.	JPEG: 10 fps MPEG4: 10 fps
Quality	50% Level 3 (cameras with 5 level settings) Level 5 (cameras with 10 level settings)	80% Level 5 (cameras with 5 level settings) Level 8 (cameras with 10 level settings)
Bitrate	Depends on storage duration for recorded data.	MPEG4: 1.5 Mbps
Recording trigger	–	VMD (Camera) VMD (Recorder) JPEG: Standard mode MPEG4: High-performance mode
Data storage location	Not changed from existing configuration.[1]	Not changed from existing configuration.[1]
Audio	Disabled	Disabled
Data overwrite	Not changed from existing configuration.	Not changed from existing configuration.
Cleanup	Deletes data that exceeds storage duration.	Not changed from existing configuration.

1) If the user has not configured storage location settings for the camera, the capacity on the first partition of the unit's internal hard disk is used to calculate other settings. If the user has configured storage location settings, the capacities for each of the locations are used to calculate other settings.

- If schedule recording and alarm recording settings already exist when you execute "automatic record," the automatic configurations replace the previous settings.
- If the camera storage locations are deliberately changed, you can perform basic configuration again to recalculate the other settings. The settings will not be recalculated automatically.

Settings that Require Individual Configuration

Further configuration is required in the following cases.

Storage location settings

Under basic configuration settings, data is stored on the first partition of the unit's internal hard disk.
For details on recording data to an optional NSRE-S200 unit or to other partitions, refer to the User's Guide (PDF).

When constructing systems that include multiple NSR units or RealShot Manager Advanced servers

When configuring multiple servers, individual configuration is required. For details, refer to the User's Guide (PDF).

Pan, tilt, and zoom settings for analog cameras

Configure pan, tilt, and zoom settings for analog cameras as follows from the [Control] tab of Device Configuration.
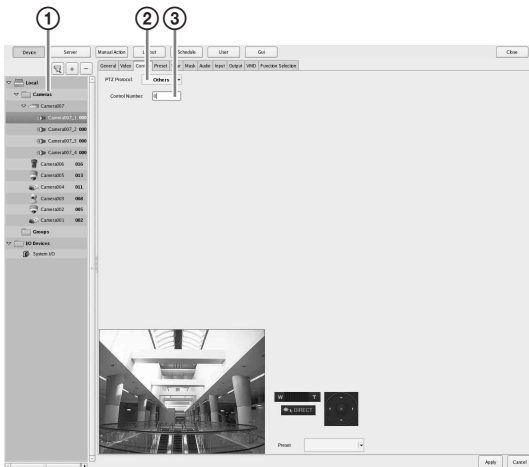
① Select the analog camera.
② Select a protocol based on the analog camera's settings.
③ Enter the control number configured on the selected analog camera.

To configure these settings, you must configure the transmission mode in the "Serial Port" settings of the Setup Wizard beforehand.

Audio settings for cameras

Under basic configuration settings, audio is disabled. For details on enabling audio, refer to the User's Guide (PDF).

Configurations for Using RealShot Manager Advanced Client Software

Configure the following settings on the NSR unit that will act as the master server. For details on the settings, refer to the User's Guide (PDF).

1 Configure the following settings in the Server Configuration screen of the Administration Menu.
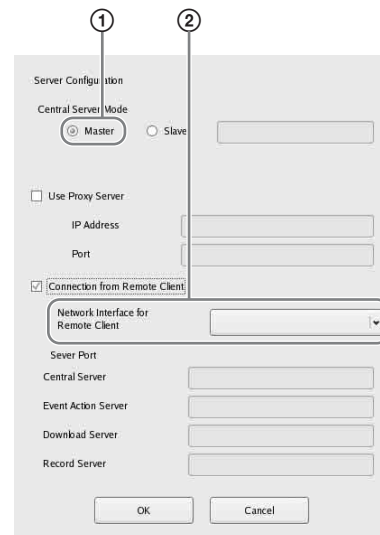
① Select [Master] under [Central Server Mode].
② Select the network interface for connection in [Network Interface for Remote Client Connection] under [Connect from Remote Client].

2 Create a user in the master server.
Click [+] (add) in the User Configuration screen, and create a user.
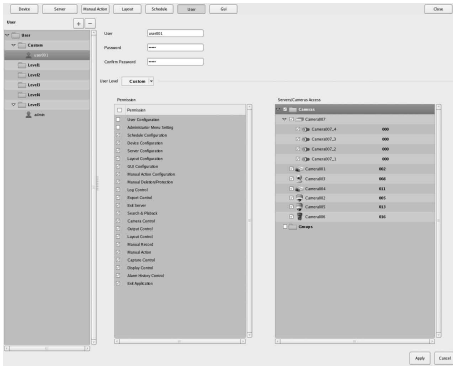
Step 4: Verifying Operation

After basic configurations are finished, make sure that camera images are displayed in the "Main" screen and verify other such operations.

① Change the layout and display images from registered cameras.
Drag and drop a camera from the Cameras pane to a monitor frame to display images from that camera.

② Click a monitor frame to activate it (light blue frame), and control pan, tilt, and zoom from the [Control] tab of the Camera Control pane.

③ Confirm alarm occurrences when objects pass in front of the camera.
When alarm recording has been configured through basic configuration, a red frame surrounds the monitor frame, and a record of each alarm is displayed in the Alarm History at the bottom of the screen.

④ Refer to the Monitoring Window Operations Guide (separate document) for details on operating each function.

⑤ Click [PLAYBACK] to play back recordings.
When you click [PLAYBACK], images from a previously configured time will be played back (quick playback).
When you enter a date and time and click [GO], recorded images will be played back.

⑥ Click the [ERROR] lamp at the bottom right of the screen to confirm whether errors have occurred.
As the System Log appears when you click the [ERROR] lamp, you can confirm whether problems have occurred by viewing the log.

For details on "Main" screen operations, refer to the Monitoring Window Operations Guide (separate document) or the User's Guide (PDF).

When you connect a USB device to the unit, the [ERROR] lamp at the bottom right of the "Main" screen may light. This indicates that the unit may not support the USB device. For details see "Usage Precautions" (page 3) or "An external device connected to a USB connector does not work." (page 33) in the "Troubleshooting" section.

When Using RealShot Manager Advanced as a Remote Client

Perform the following to confirm operations.

1 Log on to RealShot Manager Advanced.
  • Specify the server during logon. Specify port "8082" for Server IP address.
  • Enter the user name and password configured in the Server Configuration screen (page 26) for the [User Name] and [Password].

2 In the main screen of RealShot Manager Advanced, assign images to monitor frames from cameras connected to the unit.
  Two methods are available for assigning cameras.
  • Drag and drop a camera connected to the unit from the Cameras pane to a monitor frame.
  • Click a monitor frame to select it, and then double-click a camera from the Cameras pane.

3 Confirm that images from the camera selected in step 2 appear in the monitor frame.

Connection Examples

Monitor Connection Examples

This unit supports several combinations of monitor connection. Refer to the following connection examples.

Note

You can select whether to output RCA audio or HDMI audio in the Audio screen of the Setup Wizard or Setup menu.

Example 1) When connecting two HDMI monitors
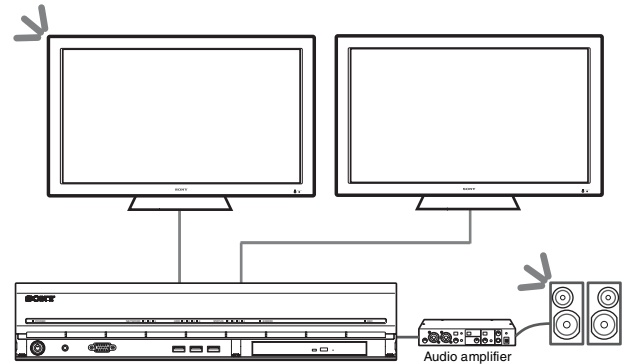
 : Audio output locations.

Note

Be sure to connect the HDMI monitors and turn them on before turning on the unit.

Example 2) When connecting two analog RGB monitors
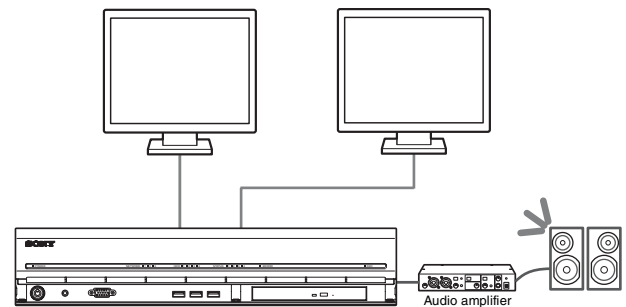
 : Audio output locations.

- Do not connect the monitors to HDMI monitor connectors 1 and 2.
- Do not connect a monitor to monitor connector 1 on the front of the unit while the unit is on.

Example 3) When connecting an HDMI monitor and analog RGB monitor (HDMI monitor used for operations)

Audio amplifier (connect to audio output connectors (L/R))
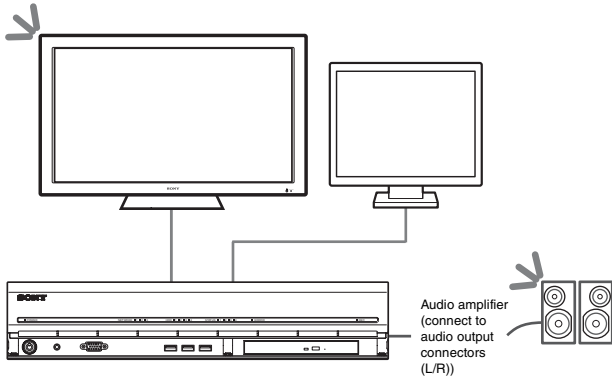
↘ : Audio output locations.

- Do not connect a monitor to HDMI monitor connector 2.
- When using HDMI monitors, be sure to connect the HDMI monitor and turn it on before turning on the unit.

Example 4) When connecting an HDMI monitor and analog RGB monitor (analog RGB monitor used for operations)
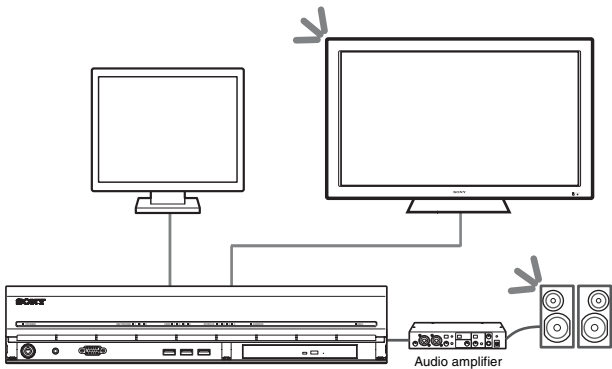
Audio amplifier

↘ : Audio output locations.

- Do not connect a monitor to HDMI monitor connector 1.
- Do not connect a monitor to monitor connector 1 on the front of the unit while the unit is on.

NSRE-S200 Connection Example

You can connect up to seven optional NSRE-S200 units to the NSR-1200/1100/1050H in the following tree configurations.

The mini-SAS cable used for connection is supplied with the NSRE-S200.

Connect NSRE-S200 expansions in the following order.

NSR-1200/1100/1050H

NSRE-S200
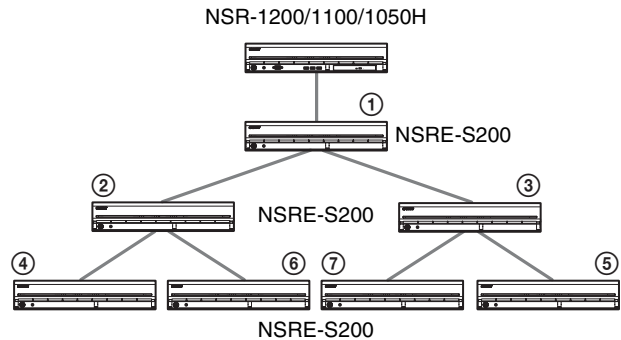
Miscellaneous

STATUS LED

When an error occurs with the unit, the ERROR LED on the front panel of the unit flashes or lights depending on the error status, and the STATUS LED lights.

STATUS ▮1 ▮2 ▮3 ▮4   ▮ ERROR

The STATUS LED indicates the following error situations.

Error codes displayed during boot stage
(The ERROR LED blinks when an error occurs during boot.)

Error code	STATUS LED	ERROR LED	Possible Cause
1	1 2 3 4	Blinking	Voltage power supply failure
2	1 2 3 4	Blinking	CPU fan failure
3	1 2 3 4	Blinking	Defective memory module
4	1 2 3 4	Blinking	CMOS battery failure
5	1 2 3 4	Blinking	Video random access memory (RAM) or controller failure
6	1 2 3 4	Blinking	Hard disk controller failure
7	1 2 3 4	Blinking	No bootable device found
8	1 2 3 4	Blinking	No bootable Operating System found
9	1 2 3 4	Blinking	One or more hard disk failure
A	1 2 3 4	Blinking	RAID OS volume failure
B	1 2 3 4	Blinking	Failure to start the X11 server
C	1 2 3 4	Blinking	Failure to start the application
D	1 2 3 4	Blinking	Reserved for future use
E	1 2 3 4	Blinking	Reserved for future use
F	1 2 3 4	Blinking	RAID data volume failure

Error codes displayed during operation stage
(The ERROR LED lights when an error occurs during operation.)

Error code	STATUS LED	ERROR LED	Possible Cause
1	1 2 3 4	On	Critical temperature
2	1 2 3 4	On	CPU fan failure
3	1 2 3 4	On	Power supply fan failure
4	1 2 3 4	On	Voltage power supply failure
5	1 2 3 4	On	Hard disk drive fan 1 failure
6	1 2 3 4	On	Hard disk drive fan 2 failure
7	1 2 3 4	On	Hard disk drive is damaged.
8	1 2 3 4	On	Reserved for future use
9	1 2 3 4	On	Reserved for future use
A	1 2 3 4	On	Reserved for future use
B	1 2 3 4	On	Operating system error
C	1 2 3 4	On	Application functioning failure
D	1 2 3 4	On	[ERROR] lamp in "Main" screen is lit
E	1 2 3 4	On	RAID data volume failure
F	1 2 3 4	On	RAID data volume is being restructured

▮ indicates that the STATUS LED or ERROR LED is lit.

I/O Port

Pin Assignment of I/O Port

Sensor In

Pin NO.	SENSOR IN
1	3.3 v
2	IN_8 –
3	IN_8 +
4	IN_7 –
5	IN_7 +
6	IN_6 –
7	IN_6 +
8	IN_5 –
9	IN_5 +
10	IN_4 –
11	IN_4 +
12	IN_3 –
13	IN_3 +
14	IN_2 –
15	IN_2 +
16	IN_1 –
17	IN_1 +
18	GND

Alarm Out

Pin NO.	ALARM OUT
1	GND
2	OUT_8 –
3	OUT_8 +
4	OUT_7 –
5	OUT_7 +
6	OUT_6 –
7	OUT_6 +
8	OUT_5 –
9	OUT_5 +
10	OUT_4 –
11	OUT_4 +
12	OUT_3 –
13	OUT_3 +
14	OUT_2 –
15	OUT_2 +
16	OUT_1 –
17	OUT_1 +
18	GND

RS-422/485

Pin NO.	RS-422	RS-485
19	TX-	TX-
20	TX+	TX+
21	RX-	
22	RX+	

Using the I/O Receptacle

Insert a small slotted screwdriver into the upper or lower slot of the hole you want to connect a wire to (AWG No. 26 to 20). Hold down the screwdriver and insert the wire, then release the screwdriver.

Caution

Do not use excessive force when inserting the screwdriver into the slot. Doing so may result in damage.
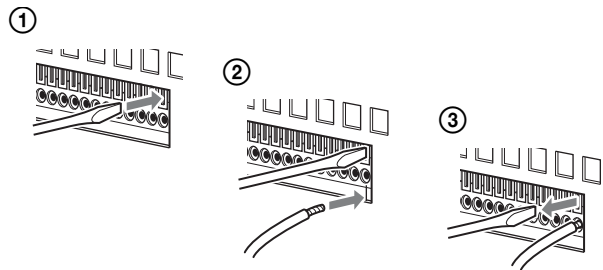
Repeat this procedure to connect all required wires.

Wiring Diagram 1 for Sensor Input

Inside of this unit   Outside

3, 5, 7, 9, 11, 13, 15, 17pin
(SENSOR IN+)

2.35 kΩ

Sensor device
Output:
3.3 to 24 V DC

2, 4, 6, 8, 10, 12, 14, 16pin
(SENSOR IN-)

Wiring Diagram 2 for Sensor Input

Inside of this unit   Outside

1 pin (VDD) (200 mA max)

3, 5, 7, 9, 11, 13, 15, 17pin (SENSOR IN+)

Wire

2.35 kΩ

Mechanical switch

2, 4, 6, 8, 10, 12, 14, 16pin (SENSOR IN-)

18pin (GND)

GND

or

Open collector output device
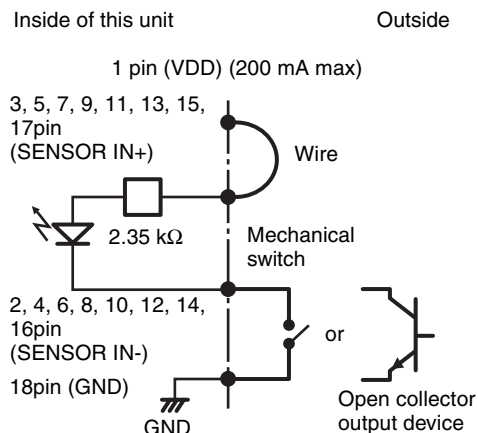
Note

When the wiring diagram 2 is used, the NSR is not electrically isolated, so be sure to construct external circuits that will not produce noise, excess voltage, or overcurrents.

Wiring Diagram for Alarm Output

Inside of this unit   Outside

3, 5, 7, 9, 11, 13, 15, 17pin (ALARM OUT+)

5 V

Magnet relay 24 V AC/24 V DC, 1 A or less

Circuit example

2, 4, 6, 8, 10, 12, 14, 16pin (ALARM OUT-)

GND
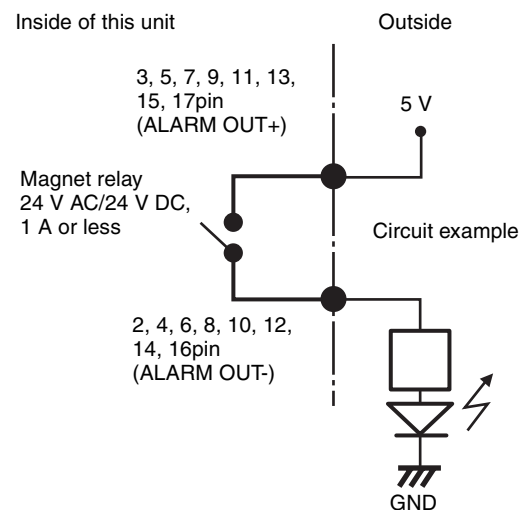
Troubleshooting

Before contacting your retailer or a Sony Support Center, please check the following items. If the problem persists, contact them.

The NSR does not work.

- Verify that the power switch is turned on.
- Verify that the power cable is connected correctly.
- Make sure the wall outlet has power. Test it by plugging another device.
- Verify that the hard disk drives are not being accessed (the HDD LEDs on the front of the recorder do not blink), and then turn it off forcibly by pressing and holding the power switch at the rear of the unit for approximately 10 seconds. Restart the NSR.
- During the startup procedure, the NSR checks the file system. The length of this check varies depending on the amount of data on the NSR (in some extreme case, it can take as long as two hours). During the file system check, the HDD LEDs on the front of the recorder blink.
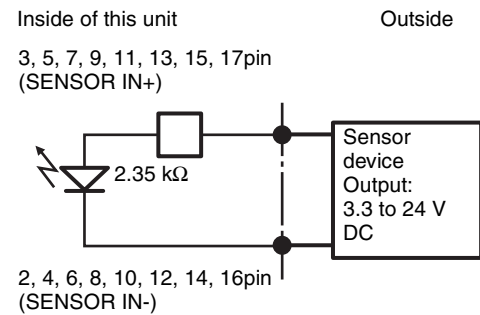- If the NSR does not start correctly, the following screen may appear.

NSR DOM Menu

1. HDD Restore
2. DOM Restore
3. Software Restore
4. Reboot the system
5. Shutdown the system

Enter your choice :
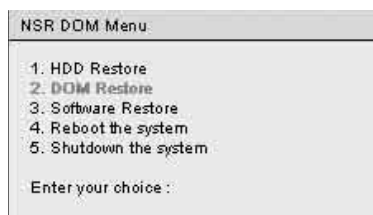
When it does, proceed as follows.

1. Select "5. Shutdown the system," and press the Enter key.
2. Referring to "Cannot access the hard drive.", verify whether the NSR hard disks are correctly connected.
3. Restart the NSR and verify whether it starts.

The monitor remains blank.

- Verify whether the NSR is on.
- Verify whether the power cord is correctly connected.
- Verify whether the monitor cable is correctly connected. Confirm that the monitor is connected to monitor connector 1.
- If you configure the wrong monitor resolution, the "Out of range" message may appear when the monitor resolution is too low compared to the monitor output. Press CTRL+ALT+MINUS SIGN as many times as necessary to lower the resolution of the output video. When the output image resolution reaches the resolution of the monitor, the image appears. Subsequently, reconfigure your monitor resolution. For details, refer to the User's Guide (PDF).

The monitor connected to the HDMI connector does not display properly.

- If you switch the input for the HDMI monitor or reconnect the cable, images may not display properly in some cases. In such cases, try the following.
    1. Switch the input for the monitor.
    2. Restart the monitor.

> **Note**
>
> If the problem persists after performing the above, disconnect the HDMI cable and continue operation with the analog RGB monitor. When it is convenient to stop operation, restart the unit and try reconnecting the HDMI monitor.

The new external hardware is not working properly.

- Make sure the cables for the new external device are firmly connected and the pins are not bent.

An external device connected to a USB connector does not work.

- When you connect a USB device to the unit, the [ERROR] lamp at the bottom right of the "Main" screen may light. Perform the following to confirm whether the unit supports the USB device.
    1. Click the [ERROR] lamp.
       The System Log appears.
    2. Confirm whether the "Unsupported USB device" error appears in the System Log. If "Unsupported USB device" appears, the unit does not support the USB device.
- This unit supports standard USB 2.0 Mass Storage devices. Depending on the type of USB 2.0 Mass Storage device, however, errors may occur when writing data to the device. If errors occur when writing data, use a USB memory device of a different type.
- To ensure proper operation of USB devices, do not connect the devices via a USB hub. Connect the

devices directly to the USB connectors on the unit. Operation is not guaranteed when devices are connected via a USB hub, USB switch, or extension cable.
- Refer to the documentation that came with the USB device.

System cannot read the DVD/CD information.

- Make sure that you are using the correct type of disc.
- Make sure the DVD/CD is properly inserted in the drive.
- Check if the DVD/CD is clean and not scratched.

The DVD/CD tray cannot be ejected.

- Make sure that the NSR is turned on.
- Slowly insert the tip of a pen or paperclip into the eject hole on the DVD/CD drive. Pull the tray out from the drive then remove the disc.

The NETWORK LED does not light up.

- Check the cabling and network equipment for the proper connection.

Cannot access the hard disk drive.

- Make sure the hard disk drive is properly inserted.
- Check the HDD LEDs on the front panel of the system. Identify the defective hard disk drive by reading the drive LEDs. A defective HDD LED does not light up.
- Due to rapid flashing during frequent access to the hard disk drive, the HDD LED may appear unlit in bright environments.

Cannot access NSR from a remote client.

- Make sure the NSR is operating properly (there should be no abnormalities with the hard disk drive, network, software or other items).
- Make sure that the central server settings for the unit are correct.
- Make sure the correct user name, password, and connection port are set in RealShot Manager Advanced.
- Refer to the troubleshooting section of the user's guide for the RealShot Manager Advanced.

The NSR heats up quickly

- Make sure that nothing is blocking the ventilation openings on the front, sides, and rear of the unit and dust has not accumulated in them.

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You can download the source code from the unit. For details on downloading the source code, see "Downloading Files Stored on the NSR" (page 6). Do not direct questions to Sony regarding the contents of the source code.

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    <signature of Ty Coon>, 1 April 1990
    Ty Coon, President of Vice

That's all there is to it!

Specifications

NSR-1200/1100/1050H

Processor
CPU   NSR-1200: Quad Core Xeon
       NSR-1100: Dual Core Xeon
       NSR-1050H: Dual Core Xeon

Memory
Onboard flash memory
       4 GB
Internal memory
       NSR-1200:   2 GB
       NSR-1100:   1 GB
       NSR-1050H: 1 GB

Recording devices
Internal hard disk drive
       NSR-1200: 2 TB
           (SATA-II 500 GB × 4)
       NSR-1100: 1 TB
           (SATA-II 500 GB × 2)
       NSR-1050H: 500 GB
           (SATA-II 500 GB × 1)
       Capacities for hard disk drives are based on
           the following equation for 1 GB: $1,000 \times 1,000 \times 1,000 = 1$ billion bytes
DVD/CD drive (front)
       1 drive
       Compatible media: DVD+R, DVD-R,
           DVD-ROM, CD-R, CD-RW, CD-ROM

External connectors
Front   Monitor output:
             Analog RGB (mini D-SUB 15 pin) (1)
                 USB: USB 2.0 (3)

Rear   Monitor output:
             Analog RGB (mini D-SUB 15 pin) (2)
             HDMI (2)
         Audio output (L) (1)
         Audio output (R) (1)
         Audio input (1)
         LAN (1000Base-T/100Base-TX/10Base-T)
             (RJ-45) (4)
         USB: USB 2.0 (3)
         Mini-SAS output (for optional NSRE-S200
             connection, mini-SAS ×4 (SFF-8088),
             3.0 Gbit/s) (1)
         Sensor input (compatible with 3.3 V to 24 V
             DC devices, photo coupler input,
             insulated from main unit) (8)
         Alarm output (maximum 24 V DC, 1 A,
             mechanical relay output, insulated from
             main unit) (8)

UPS serial: RS-232C (1)
Analog camera control (only with NSR-
    1050H or NSBK-A16 expansion):
    RS-232C (1)
    RS-422/485 (1)

Operating environment
Operating temperature
       5 °C to 40 °C (41 °F to 104 °F)
Operating humidity
       20% to 80% (maximum wet-bulb
           temperature: 30 °C, noncondensing)
Temperature range for storage
       –20 to +60 °C (–4 to +140 °F)
Humidity range for storage
       20 to 90% relative humidity (maximum wet-
           bulb temperature 35 °C/95 °F, no
           condensation)

Power and miscellaneous
Power
       100 to 127 V AC/200 to 240 V AC (50/60
           Hz)
Power consumption
       Max. 350 W
Dimensions
       $430 \times 87 \times 417$ mm ($16.9 \times 3.4 \times 16.4$ in.)
           (W/H/D, excluding protrusions)
Mass
       NSR-1200: approx. 13.5 kg (29.8 lb.)
       NSR-1100: approx. 12 kg (26.7 lb.)
       NSR-1050H: approx. 11.5 kg (25.4 lb.)

Optional accessories
NSR-RM1 Rack Mounting Kit
NSBK-A16 Analog Encoder Kit
NSRE-S200 Expansion Storage Unit

Design and specifications are subject to change without
notice.

Notes
- Always make a test recording, and verify that it was
  recorded successfully.
  SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY
  KIND INCLUDING, BUT NOT LIMITED TO,
  COMPENSATION OR REIMBURSEMENT ON
  ACCOUNT OF FAILURE OF THIS UNIT OR ITS
  RECORDING MEDIA, EXTERNAL STORAGE
  SYSTEMS OR ANY OTHER MEDIA OR STORAGE
  SYSTEMS TO RECORD CONTENT OF ANY TYPE.
- Always verify that the unit is operating properly before use.
  SONY WILL NOT BE LIABLE FOR DAMAGES OF ANY
  KIND INCLUDING, BUT NOT LIMITED TO,
  COMPENSATION OR REIMBURSEMENT ON
  ACCOUNT OF THE LOSS OF PRESENT OR
  PROSPECTIVE PROFITS DUE TO FAILURE OF THIS
  UNIT, EITHER DURING THE WARRANTY PERIOD OR
  AFTER EXPIRATION OF THE WARRANTY, OR FOR
  ANY OTHER REASON WHATSOEVER.

安全のために

ソニー製品は安全に充分配慮して設計されています。しかし、電気製品は、まちがった使いかたをすると、火災や感電などにより死亡や大けがなど人身事故につながることがあり、危険です。
事故を防ぐために次のことを必ずお守りください。

安全のための注意事項を守る

この冊子の注意事項をよくお読みください。製品全般の注意事項が記されています。

定期点検をする

長期間、安全にお使いいただくために、定期点検をすることを、お願いします。外観上は異常がなくても、使用頻度によって部品が劣化している可能性があり、故障したり事故につながることもあります。詳しくは、お買い上げ店またはソニーのサービス窓口にご相談ください。

故障したら使わない

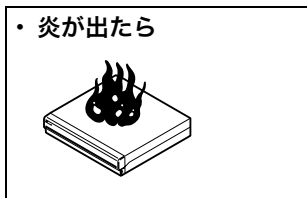すぐに、お買い上げ店またはソニーのサービス窓口にご連絡ください。

万一、異常が起きたら

・煙が出たら
・異常な音、においがしたら
・内部に水、異物が入ったら
・製品を落としたり、キャビネットを破損したときは

↓

❶ 電源を切る。
❷ 電源コードや接続コードを抜く。
❸ お買い上げ店またはソニーのサービス窓口に連絡する。

・炎が出たら

↓

● 電源プラグをコンセントから抜くか、ブレーカーを落とす。

警告表示の意味

取扱説明書および製品では、次のような表示をしています。表示の内容をよく理解してから本文をお読みください。

⚠警告

この表示の注意事項を守らないと、火災や感電などにより死亡や大けがなど人身事故につながることがあります。

⚠注意

この表示の注意事項を守らないと、感電やその他の事故によりけがをしたり周辺の物品に損害を与えたりすることがあります。

注意を促す記号

火災　　感電　　注意

行為を禁止する記号

禁止　　分解禁止　　接触禁止

ぬれ手禁止　水ぬれ禁止　指挟み

行為を指示する記号

プラグをコン　　指示
セントから抜く

アース線を
接続せよ

⚠警告 🔥火災 ⚡感電

下記の注意を守らないと、**火災**や**感電**により**死亡**や**大けが**につながることがあります。

⚠注意 重い製品の運搬は二人以上で

重量のある機器の開梱・運搬は、けがや事故を防ぐため、必ず二人以上で行ってください。

⚠注意 電源プラグの端子、および端子の取付け面にほこりが付着している場合は、乾いた布でよく拭く

そのまま使用すると火災の原因となります。

❗指示 電源プラグは、コンセントの奥まで確実に差し込む

火災、故障の原因となることがあります。

🚫禁止 2台以上積み上げない

ラックを使用せずに2台以上積み上げると、機器が落下してけがの原因となることがあります。

❗指示 接続の際は電源を切る

電源コードや接続コードを接続するときは、電源を切ってください。感電や故障の原因となることがあります。

⚠指挟み ラックマウントレールに手や指をはさまない

ラックマウントした機器を収納するときおよび引き出すとき、ラックマウントレールに手や指をはさみ、けがをすることがあります。

🚫 禁止

通風孔をふさがない

通風孔をふさぐと内部に熱がこもり、火災や故障の原因となることがあります。風通しをよくするために次の項目をお守りください。
・壁から 10 cm 以上離して設置する。
・密閉された狭い場所に押し込めない。
・毛足の長い敷物（じゅうたんや布団など）の上に設置しない。
・布などで包まない。
・あお向けや横倒し、逆さまにしない。

アース線を接続せよ

安全アースを接続する

安全アースを接続しないと、感電の原因となることがあります。
安全アースを取り付けることができない場合は、お買い上げ店にご相談ください。

指示

接続ケーブル類を正しく配置する

電源コードや接続ケーブル類を足に引っかけると、本機が落下・転倒してけがの原因となることがあります。充分注意して接続、配置してください。

🚫 禁止

ファンが止まったままの状態で使用しない

ファンモーターが故障すると、火災の原因となることがあります。交換は、お買い上げ店にご依頼ください。

分解禁止

内部を開けない

内部には電圧の高い部分があり、キャビネットや裏ぶたを開けたり改造したりすると、火災や感電の原因となることがあります。内部の調整や設定、点検、修理はお買い上げ店にご依頼ください。

⚠️ 注意

転倒、移動防止の処理をする

大型の製品をラックに取り付け・取り外しするときは、転倒・移動防止の処理をしないと、倒れたり、動いたりしてけがの原因となることがあります。
安定した姿勢で注意深く作業してください。
また、ラックの設置状況、強度を充分にお確かめください。

| ⚠注意 | 下記の注意を守らないと、**けが**をしたり周辺の物品に**損害**を与えることがあります。 |

安定した場所に設置する

ぐらついた台の上や傾いたところに設置すると、倒れたり落下したりして、故障やけがの原因となることがあります。また、設置・取り付け場所の強度を充分にお確かめください。

指示

直射日光の当たる場所や熱器具の近くに設置・保管しない

内部の温度が上がり、火災や故障の原因となることがあります。
真夏の、窓を閉め切った自動車内では50 ℃を越えることがありますので、ご注意ください。

禁止

製品の上に乗らない、重い物を乗せない

倒れたり、落ちたり、壊れたりして、けがの原因となることがあります。

禁止

機器を移動する場合、あるいはお手入れの際は、電源を切って電源プラグを抜く

電源を接続したままお手入れをすると、感電の原因となることがあります。
接続ケーブルなどもはずしてください。
長時間機器を使用しないときは、安全のため必ず電源プラグをコンセントから抜いてください。

プラグをコンセントから抜く

ぬれた手で電源プラグをさわらない

ぬれた手で電源プラグを抜き差しすると、感電の原因となることがあります。

ぬれ手禁止

ケーブルやコネクター部を定期的に点検する

ケーブルに傷があったりコネクターの接触が悪いと、接続不良による感電の原因となることがあります。
1年に1度は、ケーブルやコネクター部の点検をしてください。

指示

定期的に内部の掃除を依頼する

長い間、掃除をしないと内部にホコリがたまり、火災や感電の原因となることがあります。
1年に1度は、内部の掃除をお買い上げ店またはソニーのサービス窓口にご依頼ください。（有料）
特に、湿気の多くなる梅雨の前に掃除をすると、より効果的です。

指示

目次

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  ける登録商標または商標です。
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- 本機に付属のソフトウェアは、本機以外には使用できません。
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- 本機、および本機に付属のソフトウェアの仕様は、改良のため予告なく変更することがありますが、ご容赦ください。
- 本機では、パスワードの保存等は MD5 による高度なセキュリティーを使用しています。

録画内容の補償に関する免責事項

本機の不具合など何らかの原因で記録ができなかった場合、不具合・修理など何らかの原因で記録内容が破損、消滅した場合等、いかなる場合においても記録内容の補償およびそれに付随するあらゆる損害について、当社は一切の責任を負いかねます。また、いかなる場合においても、当社にて記録内容の修復、復元、複製等はいたしません。あらかじめご了承ください。

その他安全上のご注意

設置の際には、容易にアクセスできる固定配線内に専用遮断装置を設けるか、使用中に、容易に抜き差しできる、機器に近いコンセントに電源プラグを接続してください。万一、異常が起きた際には、専用遮断装置を切るか、電源プラグを抜いてください。

機器の名称と電気定格は、底面に記載されています。

本機をラックに設置するときは、ラックと本機の間に、左右両側面に 4 cm 以上、後面に 10 cm 以上の空間を確保してください。

使用上のご注意

安全上のご注意
・本機の電源仕様に適合する電源を使用してください。
・付属の電源コードを使用し、束ねたり、タコ足配線しないでください。定格をこえた電流が流れると、火災などの原因となります。
・使用するコンセントや電源コードが正しくアースされていることを確認してください。
・カバー類を外した状態で使用しないでください。カバー類を外した状態で使用すると、火災、感電の原因となることがあります。カバー類を外す必要があるときは、必ずお買い上げ店に依頼してください。

設置上のご注意

使用・保管場所
長期間ご愛用いただくために、次のような場所での使用および保管は避けてください。
・極端に暑いところや寒いところ（仕様を守ってお使いください。）
・直射日光が長時間あたるところや暖房器具の近く（真夏、窓を閉め切った自動車内では 50 ℃を超えることがありますのでご注意ください。）
・湿気・ほこりの多いところ
・激しい振動があるところ
・強い磁気の発生するものの近く
・強力な磁気を発生するテレビ、ラジオの送信所の近く

通風孔をふさがない
・本機内の温度の上昇を防ぐため、本機の側面にある通風孔をふさがないでください。本機の両側面、後面、上面は、壁や天井から 10 cm 以上離してください。
・本機を密閉された箱に入れて使用しないでください。
・本機背面のファンの通風孔付近に、ケーブルやその他の障害物がこないように設置してください。通風孔をふさぐと内部に熱がこもり、火災や故障の原因となることがあります。
・本機をラックに設置して使用するときも、本機背面のファン、前面の通気孔付近に、ケーブルやその他の障害物がこないように設置してください。また、動作環境が上記の条件を満たす場所に設置してください。

水平位置で使用してください
・本機は水平平面上で動作するように設計されています。
・傾いた場所に設置しないでください。強い衝撃を与えないでください。
・落としたりして強い衝撃を与えると故障することがあります。

・本機をラックに設置するときは、水平が保てるように取り付けてください。高さを合わせないで取り付けると、誤動作の原因となります。また、本機をラックに取り付けたときに、ラックの重量バランスが崩れて転倒することを防ぐため、ラックに転倒防止金具などを取り付けることをおすすめします。

お手入れについて
・お手入れをする前に、電源プラグをコンセントから抜いてください。
・キャビネットやパネルの汚れは、乾いた柔らかい布で軽くふき取ってください。汚れがひどいときは、中性洗剤溶液を少し含ませた布で汚れをふき取り、乾いた布で仕上げてください。
・アルコール、シンナー、ベンジンや殺虫剤など、揮発性のものをかけると、変質したり塗料がはげることがあります。
・本機前面の通風孔にほこりがたまることがあります。その場合は、衝撃・振動を与えないように注意して除去してください。

輸送のときは
付属のカートン、または同等品で梱包し、急激な衝撃を与えないようにご注意ください。

HDD 内蔵機器に対する注意事項
本機には、ハードディスクドライブ（以下 HDD と称する）が搭載されています。HDD は精密部品であり、衝撃・振動・静電気・温度・湿度が原因で故障したり、HDD 内のデータが破損する恐れがあります。本機を設置・使用するときは、以下の注意事項をよくお読みのうえ、慎重に取り扱ってください。

衝撃・振動を与えない
衝撃・振動が加わると HDD が故障あるいは HDD 内のデータが破損される恐れがあります。
・本機を輸送する場合は、指定の梱包材料で梱包してください。台車などで搬送する場合は、振動の少ない台車を使用してください。過度な衝撃・振動が加わると HDD が故障するおそれがあります。
・通電中は本機を移動しないでください。本機をラックから出し入れするときも、必ず電源をオフにした状態で行ってください。
・ラック内にあるすべての HDD 搭載機器に衝撃を与えないでください。
・本機をラックから出し入れするとき、ラック内に通電中の HDD 搭載機器がある場合は、必ずその機器の電源をオフにしてください。
・本機の外装を取り外さないでください。

・本機を床などに置くときは、本機の底に必ず指定のゴム脚がついている状態で、静かに降ろしてください。脚が付いていない場合は、脚を取り付けてから置いてください。
・振動を発生する機器の近くには置かないでください。

電源オフ後 30 秒間は作業しない
電源をオフにした後もしばらくの間は、HDD 内のディスクは慣性で回転しており、ヘッドは不安定な状態にあります。この期間は、通電中以上に衝撃・振動に弱い状態です。電源オフ後、最低 30 秒間は軽い衝撃も与えないようにご注意ください。30 秒以上経過すれば、（ディスクが静止するので）作業を開始できます。

温度・湿度に関するご注意
適正範囲内の温度・湿度のある場所で、保管・使用してください。（仕様を守ってお使いください。）

HDD に不良症状が現れた場合
万一、本機の HDD が故障した（不良症状が現れた）と思われる場合でも、本機の取り扱いは、上記と同様に行ってください。不良内容の確認や不良解析を行うまでの損傷の拡大を防ぎます。

HDD を含む有寿命部品の交換
HDD、ファン、バッテリーは有寿命部品として定期的な交換が必要です。常温でのご使用の場合、2 ～ 3 年を目安に交換してください。ただし、交換時間は目安であり、部品の寿命を保証するものではありません。交換の際はお買い上げ店にご相談ください。

USB ご使用時の注意事項
・USB メモリーは、一般的な USB 2.0 マスストレージに対応しています。USB 2.0 マスストレージでも一部の製品によっては、データの書き込みの際にエラーとなる可能性があります。書き込みの際にエラーが発生した場合には、別の機種の USB メモリーをお使いください。
・USB デバイスを正しくご使用いただくために、USB ハブ経由などでなく本機の USB コネクタに直接接続してお使いください。USB ハブ、USB スイッチ、延長ケーブル経由でご使用の場合は、動作保証いたしません。

機能概要

NSR シリーズはネットワークカメラに対応したハードディスクレコーディングサーバーです。JPEG または MPEG-4 により、ネットワークカメラの画像をネットワーク経由でモニタリングしたり、記録することができます。また、記録した画像を再生、検索することもできますので、監視システムとして幅広い用途にお使いいただけます。

対応ネットワークカメラの遠隔操作が可能

パン（左右）・チルト（上下）・ズーム（拡大）に対応したカメラであれば、カメラの動作を制御できます。

アナログカメラにも対応

アナログカメラを直接本機に接続[1]し、画像をモニタリングしたり、記録することが可能です。

1) NSR-1200/1100 は、NSBK-A16（オプション）の増設が必要です。NSR-1050H は、あらかじめ接続端子が内蔵されています。

大容量ハードディスクに長時間記録

大容量ハードディスクを内蔵していますので、高画質でも長時間記録が可能です。参考例として、「設置参考データ」（62 ページ）をご覧ください。

省スペースの 2U、19 インチラックマウントタイプ

オプション（別売り）のラックマウントキットを使うと、EIA STANDARD（ユニバーサルピッチ）の 19 インチラックに設置できます。

最大 480 fps（VGA、JPEG）での高画質記録

NSR-1200 は最大 64 台（NSR-1100 は 32 台、NSR-1050H は 20 台）のカメラを接続できます。また、NSR-1200 では、トータルフレームレート 480 fps[1]（NSR-1100 は 240 fps、NSR-1050H は 120 fps）で、VGA（640 × 480）[2]、JPEG 画質（1 フレームあたり約 31 KB）の画像を記録できますので、自然でなめらかな高画質記録を実現します。

1) カメラ 16 台接続時の合計フレームレート最大値。1 台あたりのフレームレートは 30 fps。ハードディスク内のフラグメンテーション（断片化）により低下する場合があります。値は、弊社内環境での測定によるものです。お客様の環境によって性能は変化するため、必ずしもこの値を保証するものではありません。
2) QuadVGA（1280 × 960）の解像度の場合にはフレームレートは VGA の 1/4 になります。

高信頼性の実現

NSR-1200 は RAID 5[1] に対応し、高信頼性を実現しています。仮にハードディスクのうち 1 台が故障した場合でも、システムの運用が継続できます。また、本体内に内蔵されたフラッシュメモリーにシステムソフトウェアおよび各種設定を記憶することにより、システムソフトウェアに異常が発生した場合でも、迅速なシステムの復旧が可能です。さらに、UPS（無停電電源装置）にも対応し、システムとしての高い信頼性を実現しています。

1) RAID 5 とは、データだけでなくパリティと呼ばれる誤り訂正符号も複数のハードディスクに分散して記録するシステムです。これにより 1 台のハードディスクが故障しても、運用を継続可能とする仕組みですが、データ復旧を保証するシステムではありません。また、故障したハードディスクを交換後の再構築中は、内部処理の負荷が高くなりますので、設定している記録レートで画像を記録できなくなる場合があります。

その他の機能

- 1 画面 1 画像から最大 8 × 8（64 画面）までの画面レイアウトに対応しています。
- マニュアル記録、スケジュール記録、アラーム記録などの多彩な記録モードをサポートしています。
- 動体検知機能[1]（Video Motion Detection（レコーダー））を標準装備しています。
- カメラ名、日時、アラームなどをキーにして、記録画像を検索できます。
- 画像の特定部分を覆い隠し、プライバシー保護などに利用できるダイナミックマスキング機能[2]を標準搭載しています。マスキングエリアはパン（左右）、チルト（上下）やズーム（拡大）にも追従します。
- カメラから配信される画像処理結果である物体情報のメタデータを用いた各種フィルタリング[3]を行うことによって、高度なアラーム処理が可能となりました。記録済みのメタデータに対してもフィルタリングが可能なため、記録後に、気になる部分について検索できます。
- 対応ネットワークカメラからの音声の記録／再生[4]にも対応しています。

1) 接続するカメラの台数によっては、機能に制限があります。
2) 接続するカメラの機種によっては、機能に制限があります。
3) メタデータを使用して動体、不動体検知を行う場合は、動体検知メタデータに対応しているカメラが必要です。メタデータの利用は、32 台までサポートしています。
4) 別売のオーディオアンプやスピーカーが必要です。

重要

本書では、本機の設置と初期設定について説明しています。本機の詳細な設定については、『ユーザーガイド』（PDF）を参照してください。

必要なシステム

本機を操作するために必要なハードウェアは以下のとおりです。

- ソニー製ネットワークカメラ
  本機で使用できるソニー製ネットワークカメラについては、お買い上げ店にお問い合わせください。
- モニター [1]
- USB キーボード [2]
- USB マウス [3]
- USB リモコン [4]
- ネットワークスイッチ
- 1000 Base-T/100 Base-TX/10 Base-T ケーブル
- USB メモリー [5]

1) 本機で使用できるモニターは、HDMI 対応機器および RGB 入力対応のコンピューターディスプレイです。
   指定できる解像度は、以下のとおりです。
   - フルハイビジョン（1,920 × 1,080）
   - WUXGA（1,920 × 1,200）
   - フルワイド XGA（1,360 × 768）
   - UXGA（1,600 × 1,200）
   - SXGA（1,280 × 1,024）
   - XGA（1,024 × 768）
2) USB キーボードは、ケーブル接続タイプをお使いください。無線接続や赤外線接続タイプの USB キーボードでは動作しない場合があります。また、拡張ボタンなど、標準以外の機能も動作しない場合があります。
3) USB マウスは、ケーブル接続タイプをお使いください。無線接続や赤外線接続タイプの USB マウスでは動作しない場合があります。また、3 ボタンやホイール以外の機能も動作しない場合があります。
4) カメラのパン、チルト、ズームのコントロールを行う際にリモコンを使用できます。
   - USB リモコンは CH Products 社の IP Desktop USB に対応しています。他のリモコンはお使いになれません。
5) ログなどのシステム情報を取得するために必要です。
   - USB メモリーは、一般的な USB 2.0 マスストレージに対応しています。USB 2.0 マスストレージでも一部の製品によってはデータの書き込みの際にエラーとなる可能性があります。書き込みの際にエラーが発生した場合には、別の機種の USB メモリーをお使いください。

メモ

HDMI と RGB の両方の入力に対応したディスプレイを使用する場合は、RGB 入力をお使いになることをおすすめします。

箱の中身を確認する

パッケージを開けたら、以下のものが揃っているかお確かめください。付属品の中に欠けているものがあるときは、お買い上げ店にご連絡ください。

NSR-1200/1100
- NSR-1200/1100 サーベイランスレコーディングサーバー 本体（1）
- 電源コード（1）
- フロントパネルキー（2）
- 設置説明書（本書）（1）
- ファーストステップガイド（1）
- モニタリング画面操作ガイド（1）
- 安全のために（1）
- WEEE（冊子）（1）
- 保証書（冊子）（1）
- 保証シート（1）
- ゴム足（4）

NSR-1050H
- NSR-1050H サーベイランスレコーディングサーバー 本体（1）
- 電源コード（1）
- フロントパネルキー（2）
- アナログカメラ入力用ケーブル（1）
- 設置説明書（本書）（1）
- ファーストステップガイド（1）
- モニタリング画面操作ガイド（1）
- 安全のために（1）
- WEEE（冊子）（1）
- 保証書（冊子）（1）
- 保証シート（1）
- ゴム足（4）

メモ

- 上記以外に、説明書や書類などが同梱されている場合があります。
- 箱と梱包材は、本機を移動したり輸送したりするときに必要です。捨てないで必ず保管してください。
- ラックマウントキット（NSR-RM1）はオプション（別売り）です。

NSR 本体に収録されているファイルをダウンロードするには

NSR 本体には、取扱説明書やその他ドキュメント、ツールが収録されています。以下の操作で、NSR 本体に収録されているファイルを取り出すことができます。

1 コンピューターから Internet Explorer などの ftp クライアントを利用して、以下の URL を指定する。
ftp://ftptool@＜ NSR の IP アドレス＞

2 以下のユーザー名とパスワードを入力する。
ユーザー名：ftptool
パスワード：ftptool

> **メモ**
>
> ユーザー名とパスワードを変更する必要があるときは、「セットアップメニュー」の「FTP」で、
> ［Enable user to Get Tools from Remote］の項目を変更します。また、ユーザー名を変更した場合は、指定する URL の ftp:// 以下も変更した「ユーザー名@＜ NSR の IP アドレス＞」に変更する必要があります。

ftp クライアントに以下のフォルダーとファイルが表示されます。

3 必要なファイルが格納されているフォルダーをクリックする。

フォルダー
Manual： 取扱説明書（PDF）が格納されています。
SourceCode： GPL/LGPL のソースコードなどが格納されています。
Tool： RealShot Manager Advanced および Media File Player が格納されています。
ファイル
README.txt：各フォルダーの構成が記載されています。

各フォルダー内のファイルが一覧表示されます。

4 必要なファイルをクリックしてダウンロードする。

PDF マニュアルの使いかた

NSR 本体には、取扱説明書とその他ドキュメント（日本語、英語、フランス語、ドイツ語、イタリア語、スペイン語、中国語簡体字、ロシア語）、クライアントソフトが格納されています。
この取扱説明書は、PDF（Portable Document Format）で作成されています。

準備

本体に格納されている取扱説明書を使用するためには、以下のソフトウェアがコンピューターにインストールされている必要があります。
・Adobe Reader 6.0 以上

> **メモ**
>
> Adobe Reader がインストールされていない場合は、下記 URL よりダウンロードできます。
> http://www.adobe.co.jp/

Adobe および Acrobat は、Adobe Systems Incorporated（アドビシステムズ社）の商標です。

PDF マニュアルを読むには

1 「NSR 本体に収録されているファイルをダウンロードするには」に従って、NSR 本体から、「Manual」フォルダー内の読みたい言語の取扱説明書をダウンロードする。
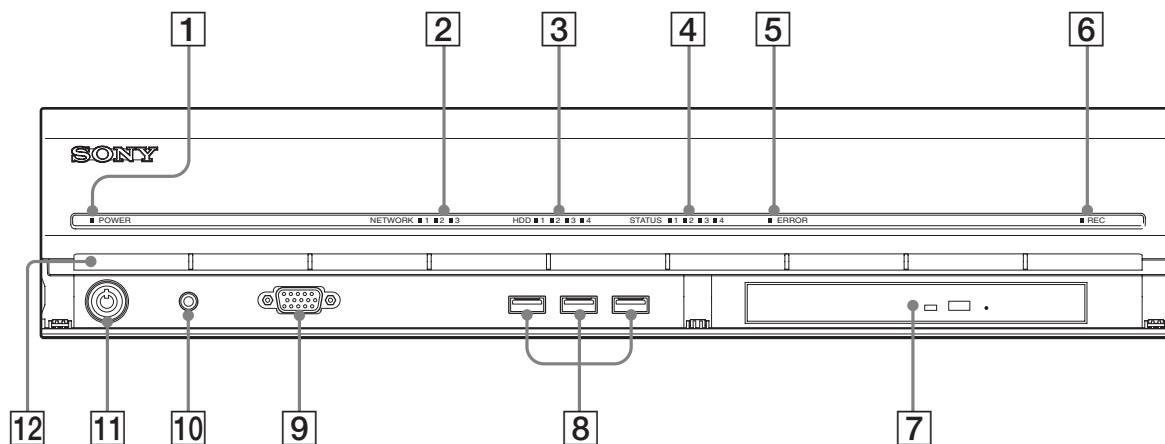
2 ダウンロードしたファイルをダブルクリックする。

> **メモ**
>
> Adobe Reader のバージョンによって、ファイルが正しく表示されないことがあります。その場合は、「準備」の項に記載されている URL から最新のバージョンをダウンロードしてください。

各部の名称

前面（カバーを開けた状態）

NSR-1200/1100/1050H

1　POWER LED
電源が入ると、緑色に点灯します。
スタンバイモードのときはアンバー色に点灯します。

2　NETWORK LED（1 ～ 3）
背面の LAN コネクター（1 ～ 3）にそれぞれアクティビティがあるときに緑色に点灯します。

3　HDD LED
内蔵ハードディスクのアクセス時に緑色に点滅します。ハードディスクにエラーが発生したときはアンバー色に点灯します。

4　STATUS LED（1 ～ 4）
本機の起動時に、1 → 2 → 3 → 4 の順で点灯します。また、エラーが発生したときには、ERROR LED が点灯／点滅するとともに STATUS LED が点灯し、エラーの内容を表示します。
詳細は、「STATUS LED の見かた」（82 ページ）を参照してください。

5　ERROR LED
エラーが発生した場合に点灯／点滅します。

6　REC LED
画像の記録中に点灯します。

7　DVD/CD ドライブ
本機の内蔵ハードディスクに保存されているデータを、DVD、CD メディアに記録できます。

8　USB 端子
USB キーボード、USB マウス、USB フラッシュメモリーを接続します。

9　モニター端子 1
モニターを接続します。
モニター端子 1（後面のモニター端子 1 を含む）と後面の HDMI 端子 1 は、同時には使用できません。

10　電源スイッチ
押すと、電源が入ります（電源を切ることはできません）。

11　鍵穴
付属の HDD トレイ施錠鍵を使って、フロントベゼルをロックします。ロック時には、フロントベゼルは引き出せません。また、フロントベゼルを引き出した状態でロックしないでください。
ロック時とロック解除時の鍵穴の位置は、以下のとおりです。

12 **通風孔**

本体前面から背面へのエアフローの入り口です。
通風孔をふさいだり、通風孔の内側のメッシュにほ
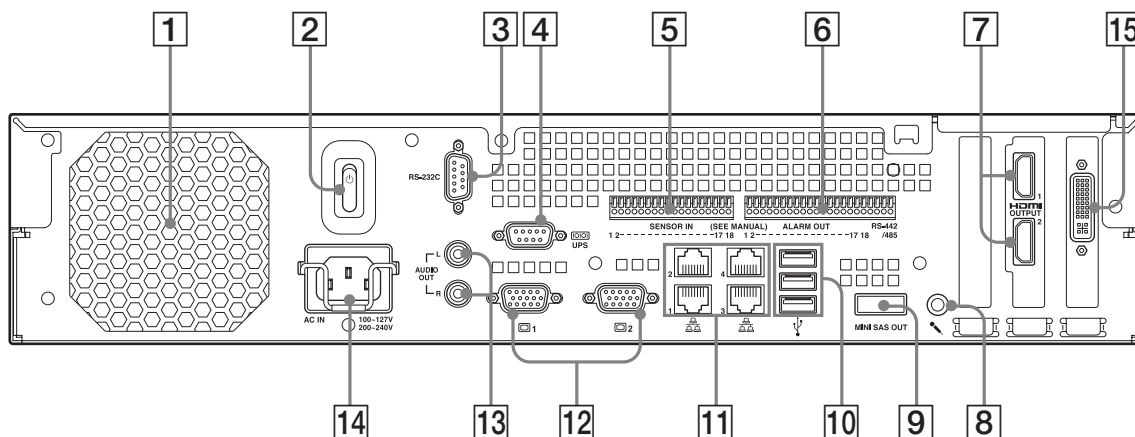こりがたまったりして、エアフローが妨げられない

ようにしてください。エアフローが妨げられると内
部に熱がこもり、火災や故障の原因となることがあ
ります。

背面

NSR-1200/1100
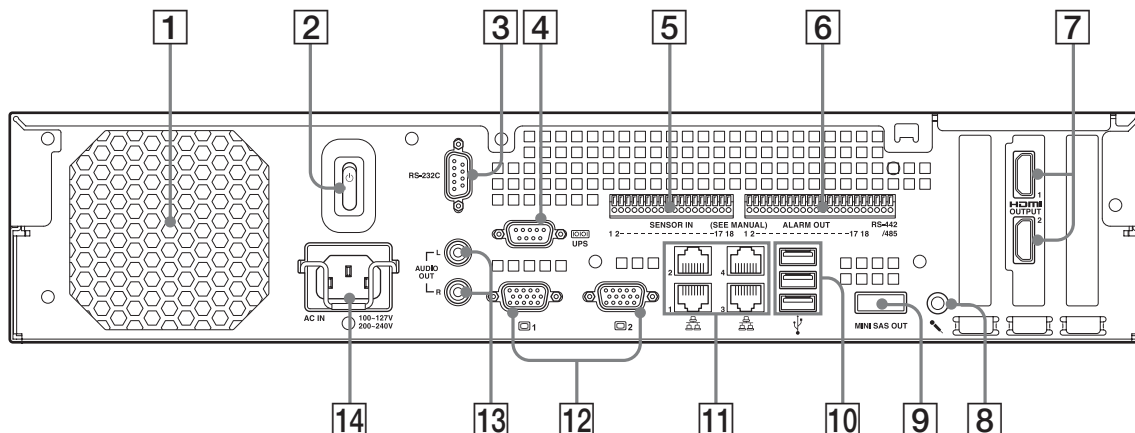
NSR-1050H

1 **ファン**

ファンの通風孔をふさがないように注意してくださ
い。通風孔をふさぐと内部に熱がこもり、火災や故
障の原因となることがあります。

2 **電源スイッチ**

⏻ の方に押すと、電源が入ります。

3 **RS-232C 端子**

アナログカメラをコントロールする場合に使用しま
す。
RS-422/485 端子（6 のアラーム出力端子の右側
4 ピン）と同時には使用できません。

4 **UPS（RS-232C）端子**

UPS（無停電電源装置）のコントロール系を接続し
ます。

5 **センサー入力端子**

センサーを接続します。
接続のしかたとセンサー入力への配線図については、
「I/O ポートについて」（83 ページ）を参照してくだ
さい。

6 **アラーム出力端子**

アラームを接続します。
接続のしかたとアラーム出力への配線図については、
「I/O ポートについて」（83 ページ）を参照してください。

7 **HDMI モニター端子（1、2）**

HDMI 入力に対応したモニターを接続します。
HDMI モニター端子 1 と 12 のモニター端子 1
（前面のモニター端子 1 を含む）、HDMI モニター
端子 2 と 12 のモニター端子 2 は、それぞれ同時に
は使用できません。

8 **マイク入力端子**

マイクからの音声を入力します。
プラグインパワー式マイクに対応しています。

9 **ミニ SAS 出力端子**

NSRE-S200 に接続するためのミニ SAS ケーブルを
接続します。
NSRE-S200 は、別売の拡張ストレージユニットで
す。

10 **USB 端子**

USB キーボード、USB マウス、USB フラッシュメ
モリーを接続します。

11 **LAN 端子（1 ～ 4）**

10 Base-T/100 Base-TX/1000 Base-T のネット
ワークケーブルを接続します。
LAN1：ネットワークカメラ
LAN2：リモートクライアント
LAN3：将来拡張用
LAN4：将来拡張用

12 **モニター端子（1、2）**

モニターを接続します。
モニター端子 1（前面のモニター端子 1 を含む）と
8 の HDMI モニター端子 1、モニター端子 2 と 8 の
HDMI モニター端子 2 は、それぞれ同時には使用で
きません。

13 **オーディオ出力端子 (L/R)**

音声を出力します。

14 **電源端子**

付属の電源コードを接続します。

15 **アナログカメラケーブル入力端子**

アナログカメラを接続するためのアナログカメラ入
力用ケーブルを接続します。
この端子は、NSR-1050H には標準で装備されてい
ますが、NSR-1200/1100 の場合は NSBK-A16
（オプション）の増設が必要です。

設置参考データ

消費電流および、突入電流

機種	電源	消費電流	突入電流
NSR-1200	100 V	2.66 A	
	220 V	1.14 A	
NSR-1100	100 V	1.84 A	
	220 V	0.79 A	
NSR-1050H	100 V	1.75 A	13 A
	220 V	0.76 A	
NSRE-S200	100 V	0.79 A	
	220 V	0.34 A	

記録データ容量

NSR-1200/1100/1050H および別売の拡張ストレージの記録データ容量は以下になります。

機種	記録データ容量
NSR-1200	1,366 GB
NSR-1100	886 GB
NSR-1050H	443 GB
NSRE-S200	1,396 GB

注）データ容量に関しては、1 GB を 1,024 × 1,024 × 1,024 ＝約 10 億 7,374 万バイトとして計算しています。

記録時間の目安

サーバー	拡張ストレージ	カメラ数	コーデック（サイズ）	日数	ビットレート	フレームレート
NSR-1050H	0 台	8 台	MPEG4 (VGA)	10 日	512 kbps	10.00 fps
NSR-1100	0 台	16 台	MPEG4 (VGA)	10 日	512 kbps	10.00 fps
NSR-1200	0 台	16 台	MPEG4 (VGA)	16 日	512 kbps	10.00 fps
NSR-1200	7 台	16 台	MPEG4 (VGA)	60 日	1,024 kbps	20.00 fps

サーバー	拡張ストレージ	カメラ数	コーデック（サイズ）	日数	ビットレート	フレームレート
NSR-1050H	0 台	4 台	JPEG (VGA)	4 日	Level 5	10.00 fps
NSR-1100	0 台	4 台	JPEG (VGA)	10 日	Level 5	8.00 fps
NSR-1200	0 台	16 台	JPEG (VGA)	30 日	Level 5	1.00 fps
NSR-1200	7 台	16 台	JPEG (VGA)	30 日	Level 5	9.00 fps

カメラ台数について

最大カメラ台数

機種	最大カメラ台数
NSR-1200	64 台
NSR-1100	32 台
NSR-1050H	20 台

最大カメラ台数のうち、最大アナログカメラ台数

機種	最大アナログカメラ台数
NSR-1200	16 台（NSBK-A16（オプション）の増設時）
NSR-1100	16 台（NSBK-A16（オプション）の増設時）
NSR-1050H	16 台

最大カメラ台数のうち、最大メガ解像度カメラ台数

機種	最大カメラ台数
NSR-1200	8 台
NSR-1100	4 台
NSR-1050H	4 台

例）NSR-1050H（最大カメラ台数：20 台）
IP カメラ： 12 台
IP カメラ（メガ解像度）： 4 台
アナログカメラ： 4 台

運用までの流れ

↓

　　各機器を接続します。

↓

本機の電源を入れる

↓

セットアップウィザードで初期設定を行う

↓

ログオンする

↓

簡単設定を行う

自動でカメラを登録する	カメラを選んで登録する

↓

アラーム記録を設定する	スケジュール記録を設定する

↓

↓

詳細な設定が必要な場合は
『ユーザーガイド』（PDF）をご覧ください。
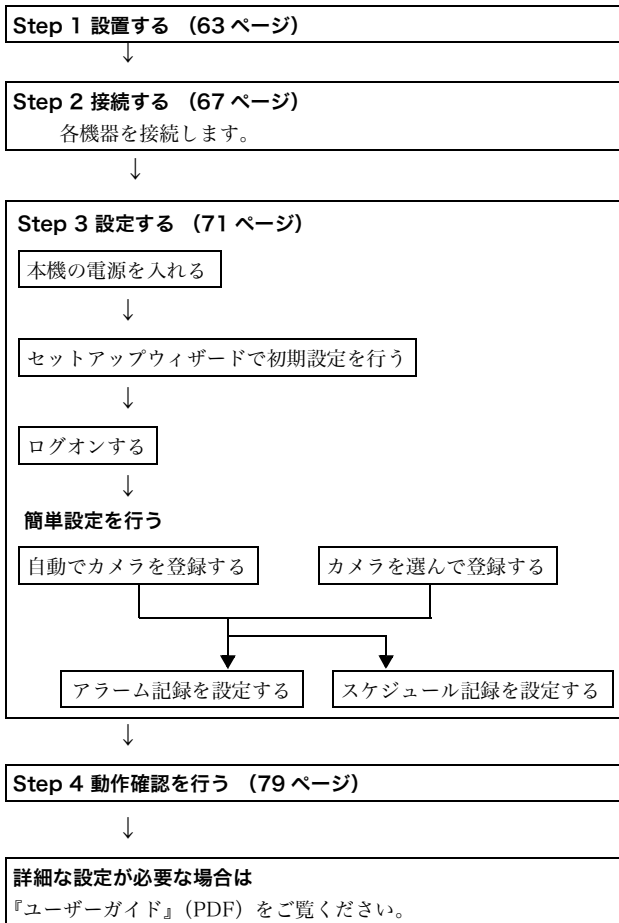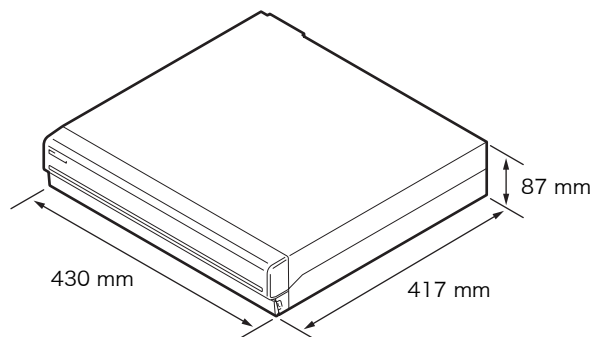
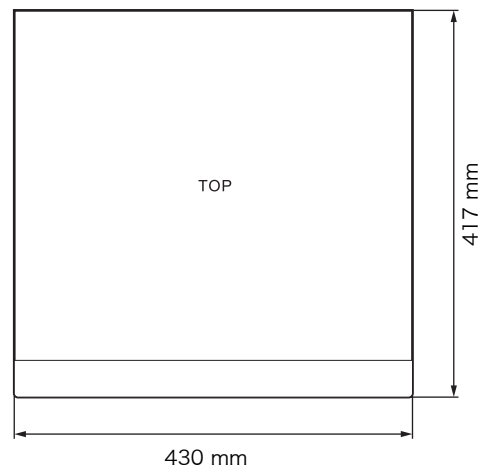# Step 1 設置する

設置場所のスペースや強度を充分確認してから、本機を設置します。
本機の質量は、NSR-1200 が約 13.5 kg、NSR-1100 が約 12 kg、NSR-1050H が約 11.5 kg で、大きさは以下のとおりです。

87 mm
430 mm
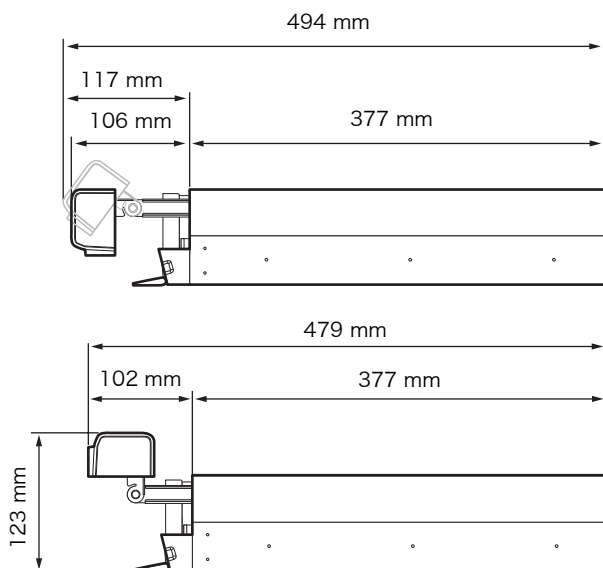417 mm
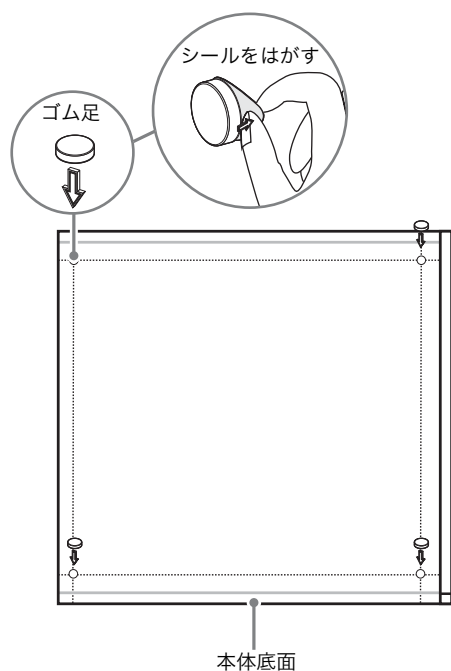
上から見たところ

TOP

417 mm
430 mm

フロントベゼルを閉じたとき

417 mm
40 mm　　377 mm
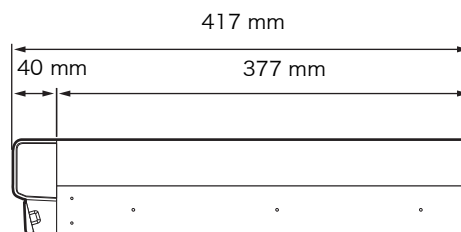
フロントベゼルを開けたとき

別売のラックマウントキットを使用すると、本機をラックに据え付けることができます。

ラックに設置しない場合

付属のゴム足を本機に取り付ける。
底面が見えるようにして、立てて置き、ゴム足の接着面を底面の四隅に貼り付けます。
図の位置を参考にして貼ってください。

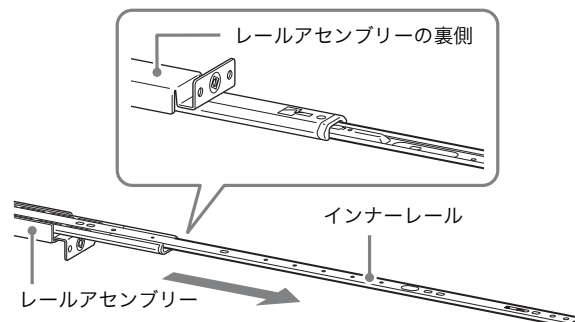## 本機をラックに設置する場合

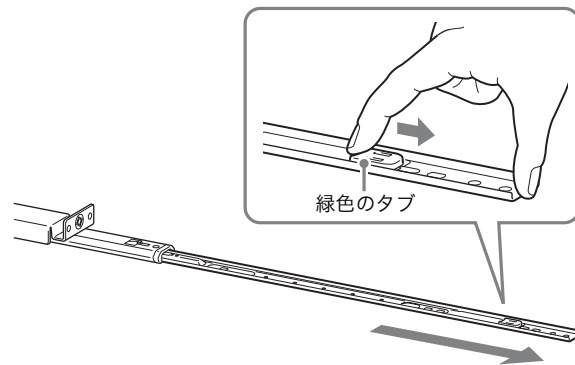オプション（別売り）のラックマウントキットを使用して、本機をラックマウントに設置します。

インナーレールを取り出す

レールアセンブリーからインナーレールを取り出します。

1 レールアセンブリーからインナーレールを、止まる位置まで引き出す。

2 レールアセンブリーを裏返し、緑色のタブを矢印の方向に引いてロックを解除しながら、インナーレールを引き抜く。
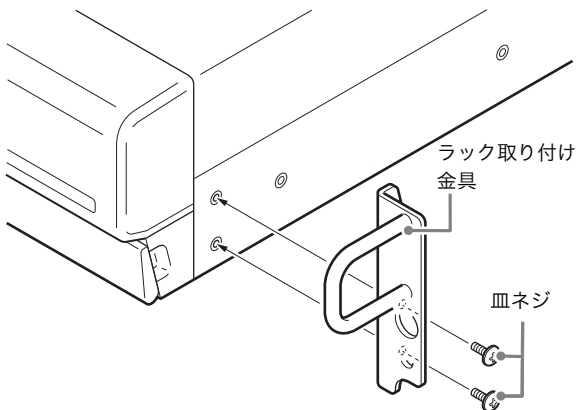

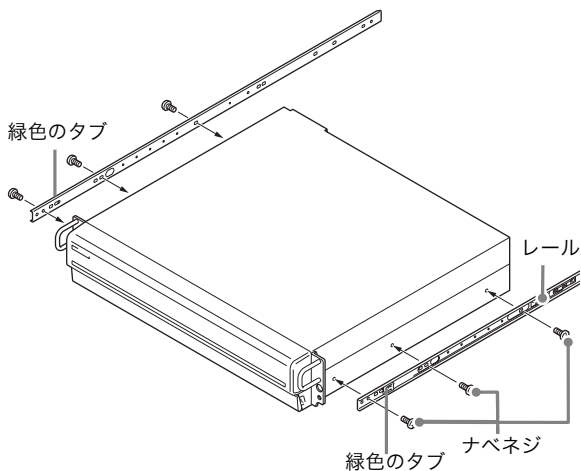**3** 同様にして、もう１本のレールアセンブリーからインナーレールを引き抜く。

インナーレールは本機に、レールアセンブリーは
ラックに取り付けます。

本機の準備をする

ラック取り付け金具とインナーレールを取り付けます。

1 付属の皿ネジを使って、本機側面の前側にラック取
り付け金具を取り付ける。

ラック取り付け
金具

皿ネジ

2 付属のナベネジを使って、インナーレールを取り付
ける。

緑色のタブ

レール

緑色のタブ

ナベネジ

付属以外のネジを使用すると、故障の原因となりま
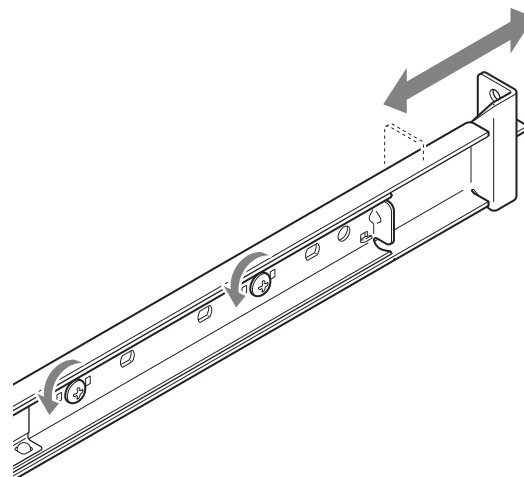す。レールの取り付けには、必ず付属のネジを使用
してください。

ラックの準備をする

ラックにレールを取り付けます。

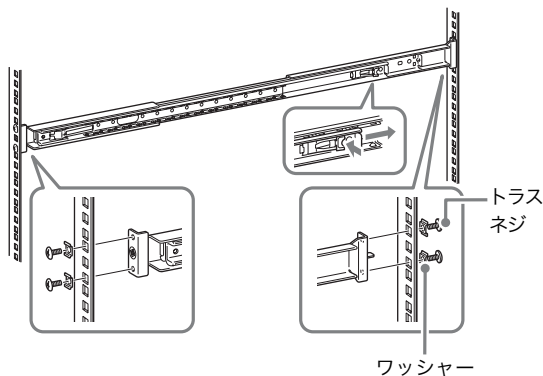**1** レールを取り付ける位置を決める。
レールを取り付ける位置に、フェルトペンなどで印
を付けておくことをおすすめします。

レールの高さを合わせないで本機を取り付けると、
誤動作の原因となりますのでご注意ください。

2 ラックにレールを取り付ける。
① お使いのラックに合わせて、レールの長さを調
節する。

② 付属のトラスネジとワッシャーを使って、前側
と後ろ側のフレームにレールを固定する。
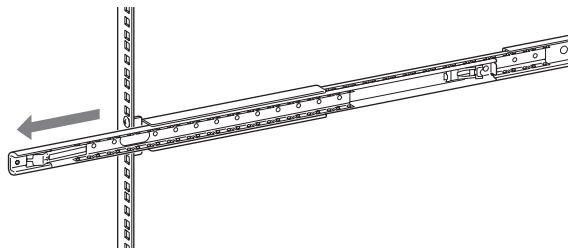

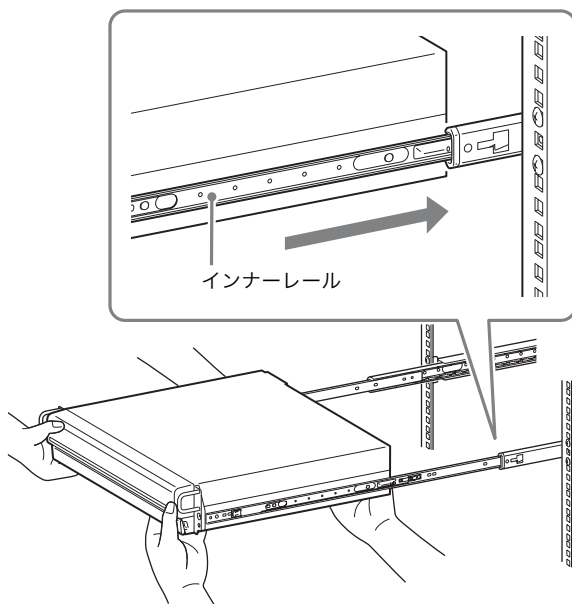トラス
ネジ

ワッシャー

本機をラックに取り付ける

本機をラックに入れて固定します。

ご注意

けがや事故を防ぐため、必ず二人以上で行ってください。

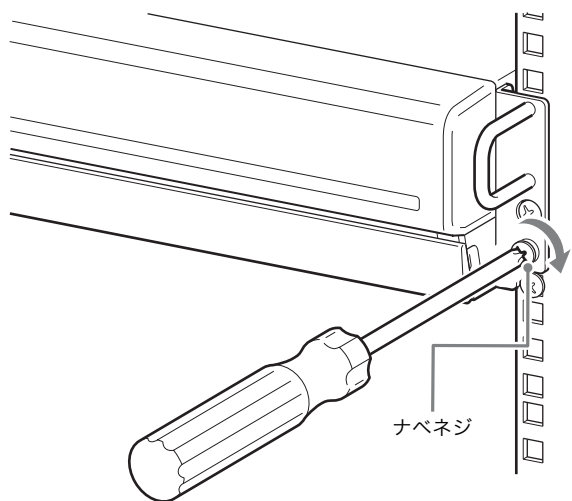**1** レールアセンブリーからスライドレールを引き出す。

2 本機を持ち上げ、インナーレールをスライドレールの溝（白い部分）に載せて、止まるところまでスライドさせる。

インナーレール

3 緑色のタブを手前に引いてロックを解除しながら、本機をラックの奥までスライドさせる。

緑色のタブ
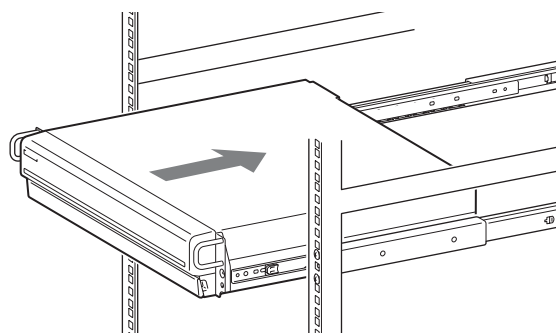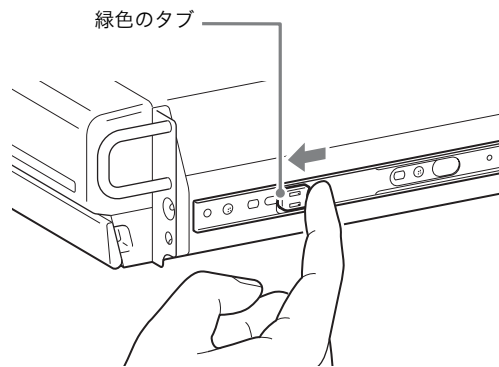
4 付属のナベネジを使って、本機を固定する。

ナベネジ

オプション品の設置について

NSRE-S200 の設置については、NSRE-S200 に同梱の設置説明書をご覧ください。
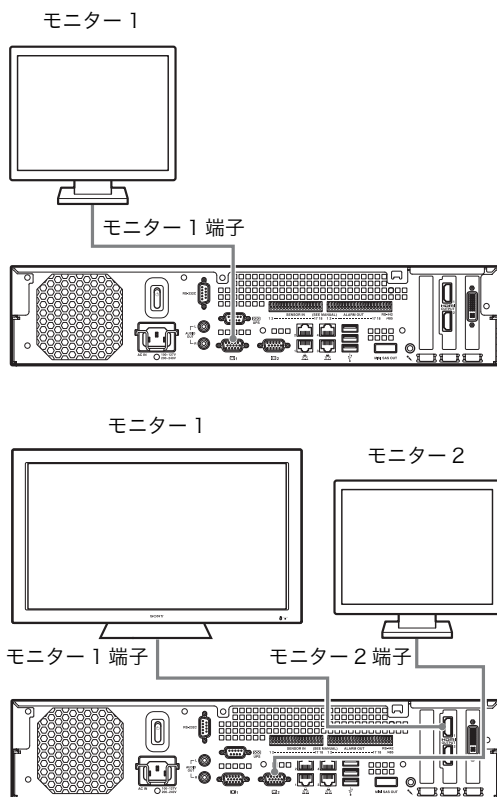NSBK-A16 の組み込みについては、お買い上げ店にご相談ください。

Step 2 接続する

各機器を接続します。

モニターを接続する

1 台のモニターで使用する場合は、アナログ RGB モニター端子 1 または HDMI モニター端子 1 に接続します。モニターを 2 台使用する場合は、2 番目のモニターをアナログ RGB モニター端子 2 または HDMI モニター端子 2 に接続します。
「モニターの接続例」（80 ページ）もあわせてご覧ください。

例）後面のモニター端子に接続する場合

モニター 1

モニター 1 端子

モニター 1　　　　　　　　　モニター 2

モニター 1 端子　　　　モニター 2 端子

本機の起動時における推奨の組み合わせ

モニター		端子の組み合わせ			
		HDMI モニター端子 1	HDMI モニター端子 2	アナログ RGB モニター端子 1	アナログ RGB モニター端子 2
1 台	HDMI モニター	○	–	–	–
	アナログ RGB モニター	–	–	○	–
2 台	HDMI モニター 2 台	○	○	–	–
	アナログ RGB モニター 2 台	–	–	○	○
	HDMI モニターとアナログ RGB モニター	○	–	–	○
		–	○	○	–

ご注意

- モニター端子 1 は 3 つ（アナログ RGB × 2、HDMI × 1）、モニター端子 2 は 2 つ（アナログ RGB × 1、HDMI × 1）ありますが、モニター端子 1、2 ともそれぞれ 1 つしか使用できません。
- 前面と後面のアナログ RGB モニター端子 1 に、モニターを同時に接続した状態で本機を起動しないでください。
- アナログ RGB モニター 1 台で使用する場合、本機の起動時には、前面のアナログ RGB モニター端子 1 にモニターを接続しないでください。
- アナログ RGB モニターを 2 台接続する場合、HDMI 端子にはモニターを接続しないでください。
- HDMI モニターをお使いになる場合は、本機を起動する前に、必ず HDMI モニターを接続し、HDMI モニターの電源をオンにしてください。
- 前面のアナログ RGB モニター端子 1 を使用する場合は、以下の制限があります。
  - HDMI 端子 1 にモニターを接続しないでください。
  - 本機の起動時は、前面または後面のどちらか一方のアナログ RGB モニター端子 1 に接続してください。両方の端子に接続すると、モニターが認識されません。
- モニター切り替え器などを接続すると、映像が表示できない場合があります。直接接続することをおすすめします。

キーボードとマウス、リモコンを接続する

本機前面または後面の USB 端子に接続します。

例）後面の USB 端子に接続する場合
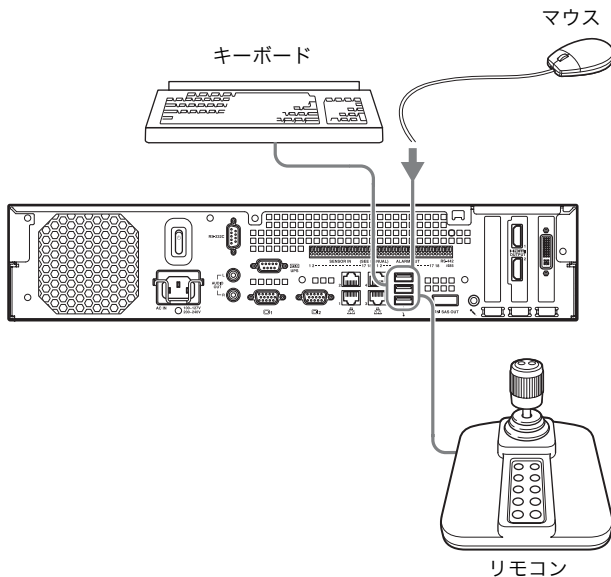
メモ

- リモコンは CH Products 社の IP Desktop USB に対応しています。他のリモコンはお使いになれません。
- USB デバイスを使用する場合は、「使用上のご注意」の「USB ご使用時の注意事項」（55 ページ）をよくお読みになって、使用ください。

電源コードを接続する

電源端子に付属の電源コードを接続します。
電源コードが抜けないように、金具で固定してください。
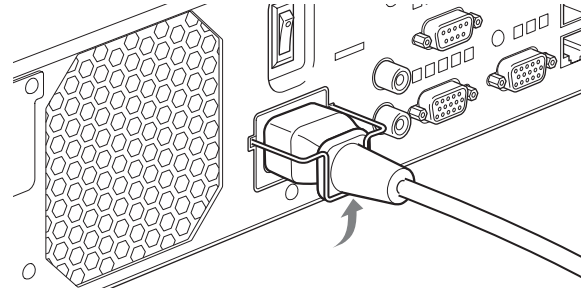
ご注意

- 設置の前には「安全上のご注意」（54 ページ）をよくお読みください。NSR を複数台、または別売の NSRE-S200 と組み合わせてご使用になる場合には、電源の容量にもお気を付けください。
- NSR-1200/1100/1050H および NSRE-S200 の消費電流および突入電流は、「設置参考データ」（62 ページ）をご覧ください。

ネットワークに接続する

以下のようにネットワークに接続します。

リモートクライアント
LAN 端子 2 をリモートクライアントとして使用する
Windows PC と同じネットワークに接続します。

**RealShot
Manager
Advanced**
クライアント
ソフトウェア

ネットワークスイッチ

Windows PC

LAN 端子 2

LAN 端子 1

ネットワークスイッチ

LAN 端子 3、4（将来拡張用）

ネットワークカメラ
LAN 端子 1 をネットワーク
カメラと同じネットワークに
接続します。
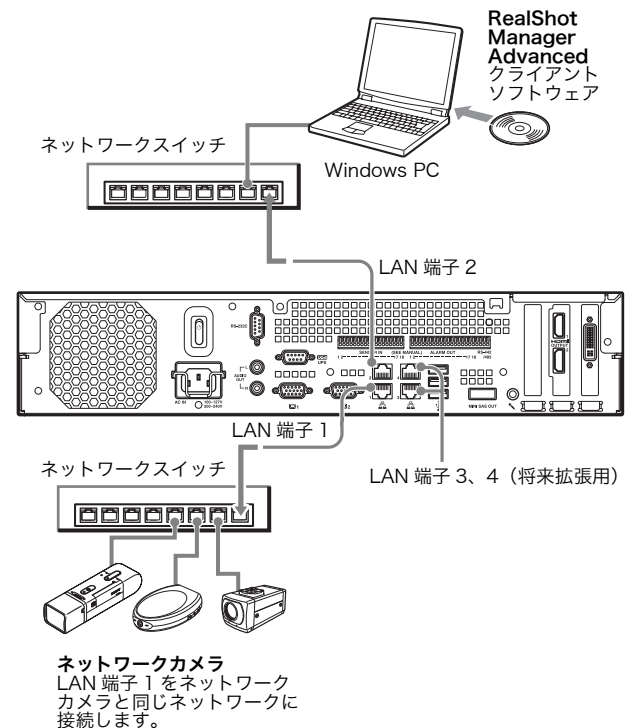
リモートクライアントの接続について

リモートクライアントが必要な場合は、本機に付属の RealShot Manager Advanced クライアントソフトウェアを使用できます。

- RealShot Manager Advanced は、本機に付属のものを使用してください。RealShot Manager Advanced のインストーラーを本機から取り出す手順は、「NSR 本体に収録されているファイルをダウンロードするには」（58 ページ）をご覧ください。また、最新の RealShot Manager Advanced のインストーラーは、以下の URL からダウンロードできます。
  http://www.sony.co.jp/Products/RSMAd/license_form.html
  インストール方法や NSR との接続方法、その他については、RealShot Manager Advanced『インストレーションガイド』(PDF) をご覧ください。
- RealShot Manager Advanced クライアントソフトウェアは、Windows コンピューターで動作します。推奨スペックなどの詳細については、RealShot Manager Advanced クライアントソフトウェアのインストールアーカイブに収められているリリースノートを参照してください。
- NSR のリモートコントローラーとして RealShot Manager Advanced を使う場合は、インストール時に [Client] を選択してください。
- ユーザーエリアのネットワークに接続する場合も、LAN 端子 2 に接続してください。
- RealShot Manager Advanced クライアントソフトウエアを利用するときの NSR 側の設定については、「RealShot Manager Advanced クライアントソフトウエアを利用するときの設定」（78 ページ）をご覧ください。

LAN 端子 3、4（将来拡張用）について

LAN 端子 3 と LAN 端子 4 はチャネルボンディング（ネットワークの二重化）されているため、割り当てられる IP アドレスは 1 つです。LAN 端子 3 と LAN 端子 4 は同じネットワークスイッチに接続してください。
なお、LAN 端子 3 と LAN 端子 4 をネットワークスイッチに接続した場合、どちらか一方で通信が行われます。どちらのネットワークが使われるかは起動時に決まるため、指定することはできません。使用されているネットワークに何らかの障害が発生し、通信できなくなった場合に、もう一方のネットワークで通信を再開します。

メモ

- 本機の工場出荷時の IP アドレスは、以下のように設定されています。
  - LAN 端子 1：「192.168.0.1」
  - LAN 端子 2：「192.168.1.1」
  - LAN 端子 3：「192.168.2.1」
  - LAN 端子 4：「192.168.2.1」

- 工場出荷時の IP アドレスを変更したいときは、『ユーザーガイド』（PDF）を参照してください。

アナログカメラを接続する

付属のアナログカメラ入力用ケーブルを使って、アナログカメラを接続します。
パン、チルト、ズームを行う場合は、RS-232C 端子または RS-422/485 端子（アラーム出力端子の右側 4 ピン）のどちらか一方にカメラコントロール用のケーブルを接続します（RS-232C、RS-422、RS-485 は、それぞれ同時使用はできません）。

アナログカメラケーブル入力端子
アナログカメラ入力用ケーブル
映像入力端子（黒色）
アナログカメラ
音声装置
音声入力端子（白色）

接続例）

アナログカメラ PTZ
（RS-485 コントロール）
アナログカメラ PTZ
（RS-422 コントロール）
アナログカメラ PTZ
（RS-232 コントロール）
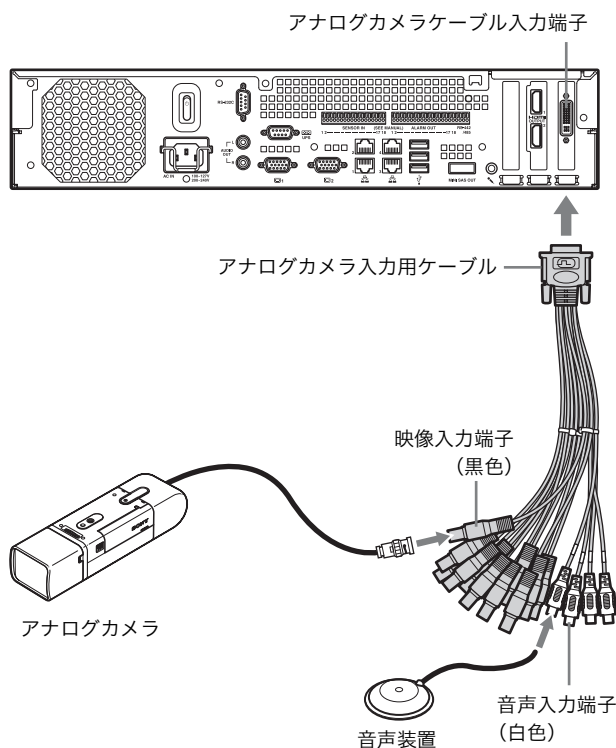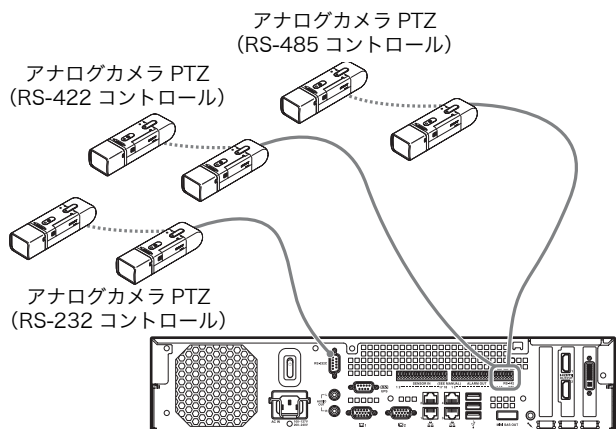
ご注意

ビデオ同軸ケーブルに DC 電源を重畳するカメラと電源
ユニットをお使いの際には、同軸ケーブルの配線にご注
意ください。カメラに接続する DC 電源が重畳された
ケーブルを NSR に接続すると故障の原因になります。

アナログカメラ

DC 電源が重畳された
同軸ケーブル

アナログカメラに挿す同軸ケーブルを、
間違って NSR に挿入しないように、
注意してください。
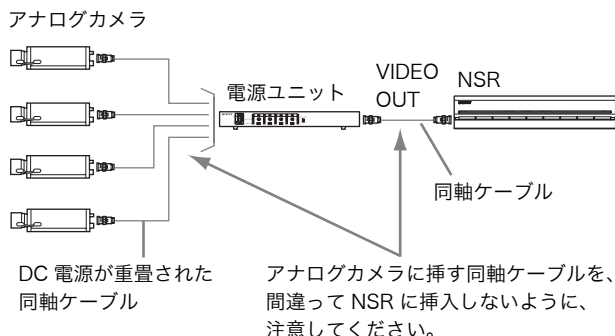
メモ

- アナログカメラケーブル入力端子は、NSR-1050H に
  は標準で装備されていますが、NSR-1200/1100 の場
  合は NSBK-A16（オプション）の増設が必要です。
- パン、チルト、ズームを行う場合は、カメラごとに
  ディップスイッチかメニューで、各アナログカメラで重
  複しないように、コントロール番号を設定する必要があ
  ります。コントロール番号の設定に関しては、アナログ
  カメラのマニュアルをご覧ください。
- RS-422/485 端子のピン配列については、「I/O ポート
  のピン配列」（83 ページ）をご覧ください。

NSRE-S200 を接続する

別売の NSRE-S200 に付属のミニ SAS ケーブルを使っ
て、以下のように NSR-1200/1100/1050H と NSRE-
S200 を接続します。
NSR-1200/1100/1050H には、最大 7 台の NSRE-
S200 を接続できます。
接続構成については、「NSRE-S200 の接続例」（81 ペー
ジ）をご覧ください。

ご注意

NSR-1200/1100/1050H、NSRE-S200 ともに、必ず
接続を行ってから電源を入れてください。

NSR-1200/1100/1050H と NSRE-S200 を接続す
る

ミニ SAS 出力端子

ミニ SAS ケーブル

ミニ SAS 入力端子

NSRE-S200 同士を接続する

ミニ SAS 出力端子

ミニ SAS ケーブル

ミニ SAS 入力端子
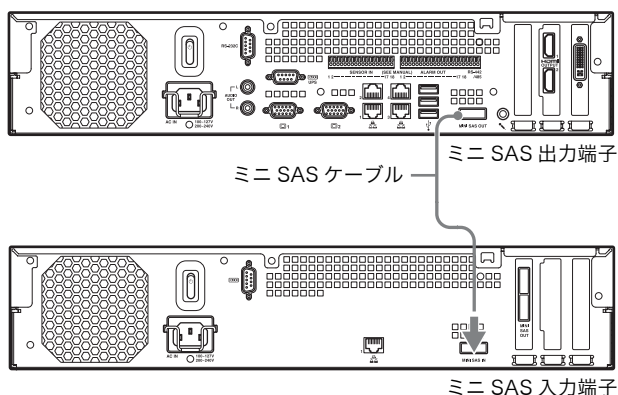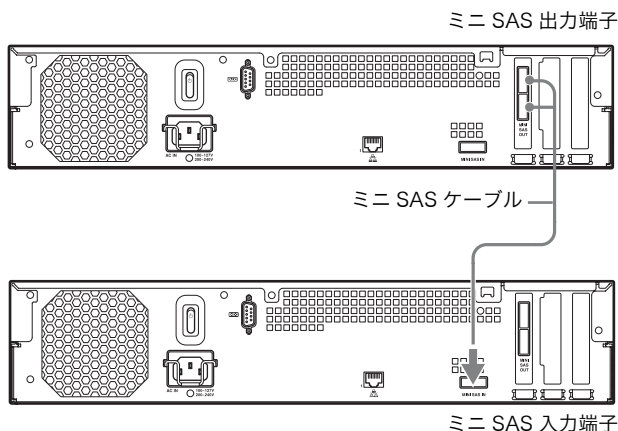
メモ

NSRE-S200 のミニ SAS 出力端子は、上下の端子に違い
はありません。

その他の機器を接続する

センサー入力・アラーム出力を接続する

センサー入力端子とアラーム出力端子にワイヤーを接続します。
詳しくは、「I/O ポートについて」（83 ページ）をご覧ください。

UPS（無停電電源装置）を接続する

1 UPS を電源に接続する。

2 付属の電源コードを使って、本機と UPS を接続する。

3 UPS 専用のシリアルケーブルを使って、本機と UPS を背面の UPS 端子に接続する。

本機に付属の
電源コード

シリアルケーブル

コンセントへ

UPS
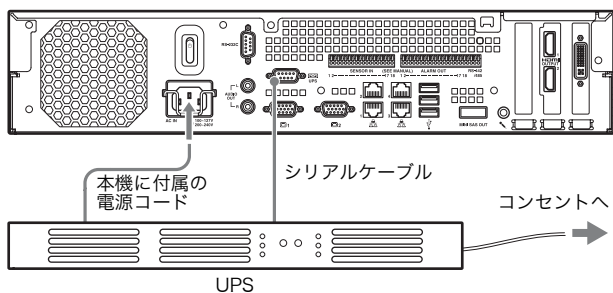
音声出力用機器を接続する

オーディオ出力端子（L/R）に音声出力用機器を接続します。

音声ケーブル（L、R）
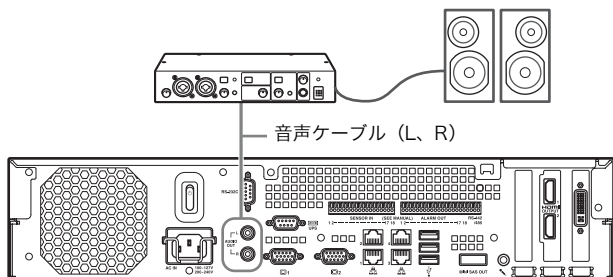
Step 3 設定する

電源を入れ、手動でカメラなどのデバイスを登録する流れを大まかに説明します。

電源を入れる

本機前面または後面の電源スイッチを押すと、電源が入ります。別売の NSRE-S200 と接続している場合は、NSRE-S200 の電源が立ち上がった後に、本機の電源を入れてください。

ご注意

複数の NSR および NSRE-S200 でシステムを構成する場合は、突入電流を考慮して電源の配線を行ってください。突入電流に関しては、「設置参考データ」（62 ページ）を参照してください。

前面の電源スイッチ
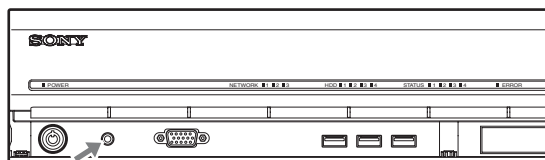
後面の電源スイッチ
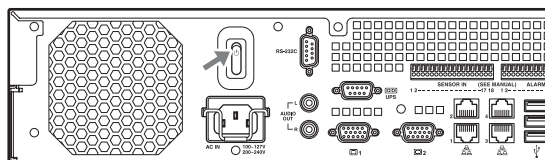
電源が入ると、本機前面の POWER LED が緑色に点灯します。

初めて電源を入れたときは、自動的にセットアップウィザードが起動します。
次の「セットアップウィザードで初期設定を行う」に進んでください。

メモ

・電源を入れた直後（約 2 秒間）にファンの大きな音がしますが、これは故障ではありません。
・システムの操作でシャットダウンしたときは、本機前面の電源ボタンか後面の電源スイッチを押して、電源を入れてください。
・前回異常終了した場合は、起動するまでに時間がかかることがあります。

電源を切るには

NSR にログオンし、メイン画面上部の ⏻/👤 をクリックして表示されるメニューから［シャットダウン］を選択します。

メモ

通常、数分で電源が切れます。しばらくたっても電源が切れない場合は、NSR 後面の電源スイッチを ⏻ の方向に5 秒以上押して、強制的に電源を切ってください。

セットアップウィザードで初期設定を行う

ここではセットアップウィザードの流れを大まかに説明します。設定項目の詳細については、『ユーザーガイド』(PDF) の「システムに関する設定を変更する」をご覧ください。

セットアップウィザードは、初めて本機の電源を入れたときに、自動的に起動します。以降は、「ログオン」画面から「管理メニュー」－「セットアップメニュー」画面を呼び出すことで、同等の設定が行えます。
呼び出しかたは、「「ログオン」画面から「セットアップメニュー」画面を呼び出すには」（75 ページ）をご覧ください。

ご注意

この取扱説明書では、画面に表示される項目の一部を日本語で説明しています。

電源を入れると、以下の画面が表示された後、セットアップウィザードが起動します。

↓
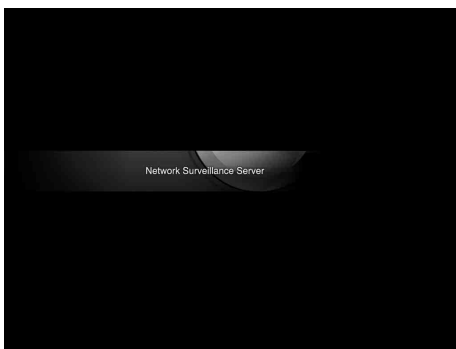
［Next］をクリックする。

↓

ソフトウェア使用許諾書をよく読み、［Accept］をチェックして、［Next］をクリックする。

↓
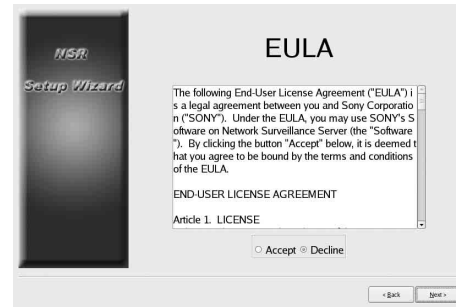
画面に表示する言語を選択し、［Next］をクリックする。

↓

キーボードの言語を選択し、［次へ］をクリックする。

↓
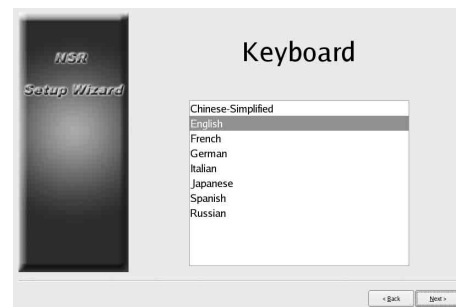
タイムゾーンを選択し、［次へ］をクリックする。

↓

日付と時刻を設定し、［次へ］をクリックする。
・［Enable NTP Server］にチェックマークを付けると、本機が NTP サーバーとなって時刻の同期を行うことができます。
・［Synchronize with NTP Server］にチェックマークを付けると、他の NTP サーバーの時刻に同期することができます。
・NTP サーバーとして Windows サーバーを使用したときに時刻の同期ができない場合は、［Synchronize with Windows Server］にチェックマークを付けることにより、Windows の NTP サーバーに強制的に時刻同期をするようになります。

↓
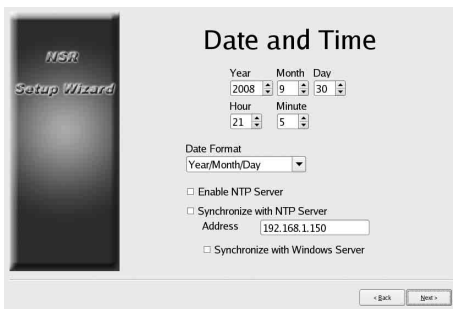
各サーバーの IP アドレスを入力し、［次へ］をクリックする。

↓
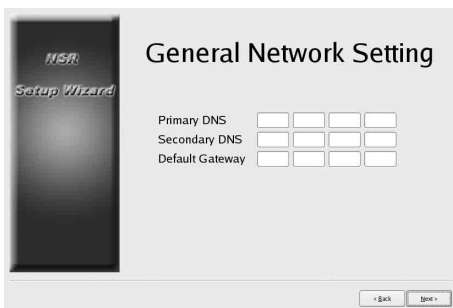
LAN 端子 1 の IP アドレスを設定し、［次へ］をクリックする。

↓
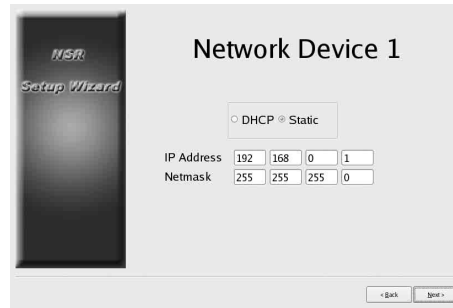
LAN 端子 2 の IP アドレスを設定し、［次へ］をクリックする。

↓
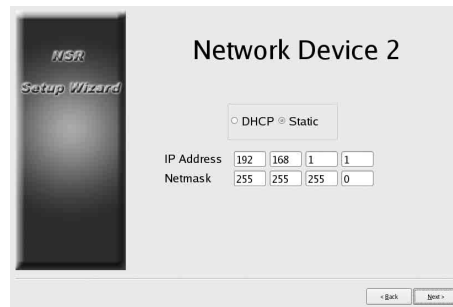
LAN 端子 3 の IP アドレスを設定し、［次へ］をクリックする。

↓
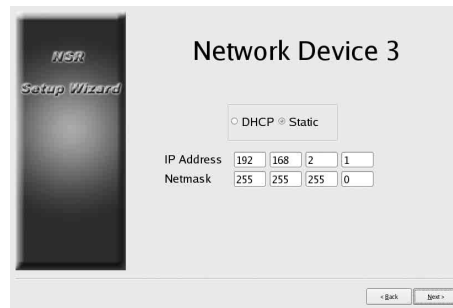
モニター1を設定し、［次へ］をクリックする。
・［Auto］を選択すると、接続されているモニターの
　種類と解像度を自動検出して設定します。
　対応解像度については「必要なシステム」（57ページ）
　をご覧ください。
・本機に2台のモニターを接続して使用する場合は、
　［Dual Head］にチェックマークを付けます。

↓
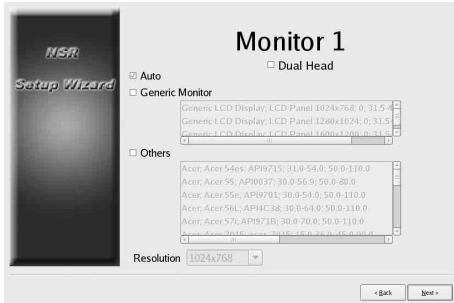
モニターを2台使用する場合は、モニタ2も設定する。
2番目のモニターを設定した場合は、設定終了後、2番目
のモニターを接続した状態での再起動が必要です。

↓

使用する音声出力端子を選択し、［次へ］をクリックす
る。

↓
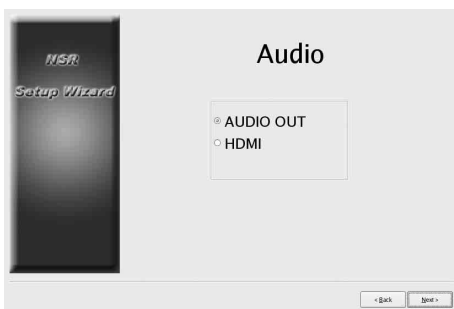
内蔵ハードディスクドライブのパーティションを設定し、
［次へ］をクリックする。
パーティションの数と、各パーティションに割り当てる
容量を％で指定します。

↓

サーバー名を設定し、［次へ］をクリックする。

↓
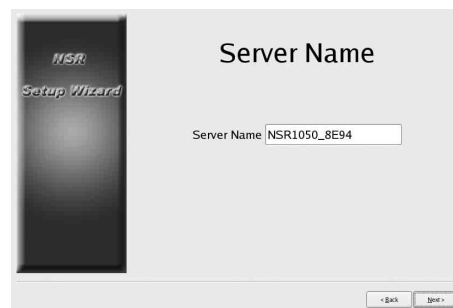
アナログカメラの接続に関する設定をし、［次へ］をク
リックする。
コントロールしたいアナログカメラと接続するシリアル
規格を選択し、通信ボーレートやパリティなどを設定し
ます。
（この画面は、NSR-1050H または NSBK-A16（オプ
ション）が装着されている場合に表示されます。）

↓

接続するアナログカメラのビデオフォーマットを選択し、
［次へ］をクリックする。
（この画面は、NSR-1050H または NSBK-A16（オプ
ション）が装着されている場合に表示されます。）

↓

設定内容を確認し、［次へ］をクリックする。

↓
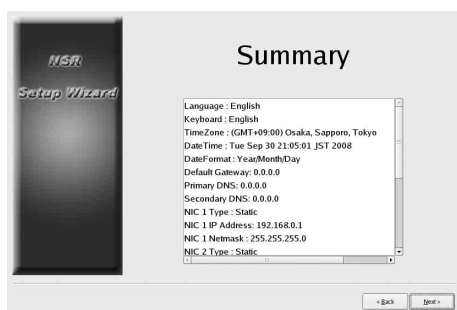
再起動の確認メッセージが表示されたら、［終了］をク
リックする。

↓

本機が再起動します。

↓

「ログオン」画面が表示されます。
次の「ログオンする」に進んでください。

「ログオン」画面から「セットアップメ ニュー」画面を呼び出すには

① ［管理メニュー］をクリックする。

↓

② ［セットアップメニュー］をクリックする。
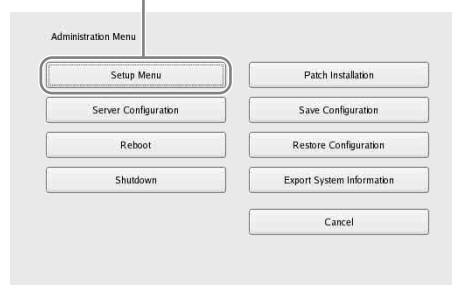
ログオンする

ユーザー名とパスワードを入力し、［ログオン］クリック
します。
初期設定ユーザー：admin
初期パスワード：admin

ログオンに成功すると、「カメラ自動登録」ダイアログが
表示されます。
次の「簡単設定を行う」に進んでください。

簡単設定を行う

ここでは、自動検出されたデバイスを選んで登録し、アラーム記録を設定する流れを説明します。自動検出されたデバイスを一括して登録する手順については、『ファーストステップガイド』（別紙）をご覧ください。

カメラを登録する

［カメラ一括登録画面を開く］を選択し、［OK］をクリックする。

↓

同一セグメントのネットワークに存在するデバイスが自動検出されます。

↓

登録するカメラにチェックマークを付け、［登録］をクリックする。

設定項目の詳細は、『ユーザーガイド』（PDF）の「デバイスを登録する」をご覧ください。

↓
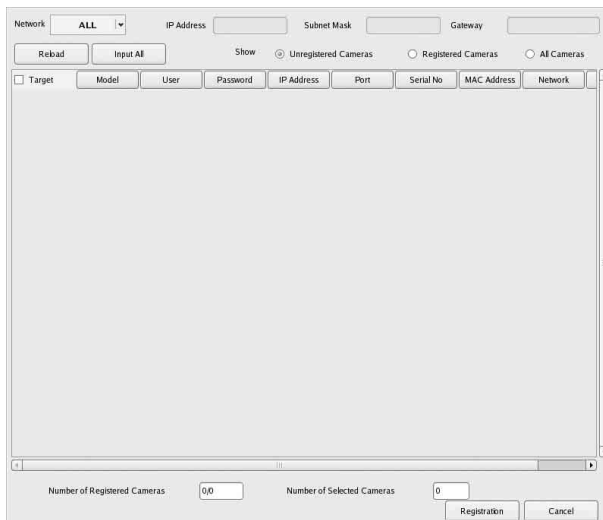
登録が行われます。

↓
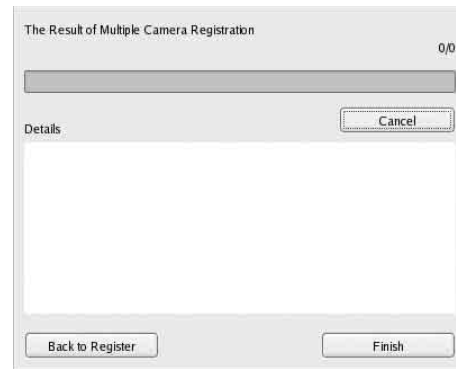
アラーム記録を設定する

［アラーム記録自動設定］を選択し、［次へ］をクリックする。

↓
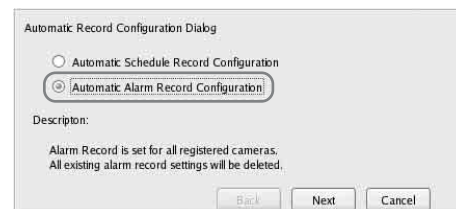
確認メッセージが表示されます。
［次へ］をクリックする。

↓

設定内容を確認し、［終了］をクリックする。

↓
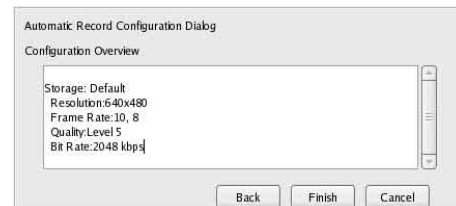
アラーム記録が開始されます。

設定が終了すると、メイン画面が表示されます。

簡単設定を行うと、各項目が以下の値に設定されます。

設定項目	スケジュール記録	アラーム記録
画像サイズ	カメラが対応している最大の画像サイズ	
コーデック	最大の画像サイズに対応したコーデック（JPEG、MPEG4 ともに対応しているときは MPEG4 に設定されます。）	
フレームレート	JPEG の場合： 　記録データの保存期間による MPEG4 の場合： 　ビットレートによる	JPEG の場合： 　10 fps MPEG4 の場合： 　10 fps
画質	50% レベル 3（5 段階設定のカメラ） レベル 5（10 段階設定のカメラ）	80% レベル 5（5 段階設定のカメラ） レベル 8（10 段階設定のカメラ）
ビットレート	記録データの保存期間による	MPEG4 の場合： 　1.5 Mbps
記録のトリガー	－	VMD（カメラ） VMD（レコーダー） 　JPEG の場合： 　　標準モード 　MPEG4 の場合： 　　高性能モード
データ保存先	既存の設定から変更されません。[1]	既存の設定から変更されません。[1]
音声	無効	無効
データ上書き	既存の設定から変更されません。	既存の設定から変更されません。
クリーンアップ	保存期間が過ぎたデータを削除	既存の設定から変更されません。

[1] ユーザーがカメラの記録先の設定を行っていない場合は、本機の内蔵ハードディスクドライブの最初のパーティションの容量を使って各種設定項目が算出されます。設定を行っている場合は、それぞれの記録先の容量を使って各種設定が行われます。

個別に設定が必要な項目について

以下のような場合は、別途設定が必要です。

記録先の設定に関して

簡単設定では、本機の内蔵ハードディスクドライブの最初のパーティションに記録するように設定されます。
別売の NSRE-S200 に記録する場合や、他パーティションに設定する場合は、『ユーザーガイド』（PDF）をご覧ください。

複数の NSR や RealShot Manager Advanced サーバーでシステムを構築する場合

複数のサーバーにまたがる場合は、別途設定が必要になります。詳しくは『ユーザーガイド』（PDF）をご覧ください。

アナログカメラのパン、チルト、ズーム設定

アナログカメラのパン、チルト、ズームは、「デバイス設定」の［コントロール］タブで、以下のように設定します。
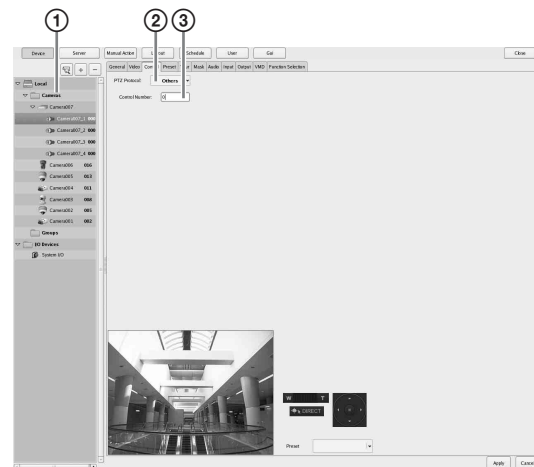
① アナログカメラを選択する。
② アナログカメラの設定に合わせてプロトコルを選択する。
③ 選択したアナログカメラで設定されているコントロール番号を入力する。

メモ

本設定を行うには、あらかじめセットアップウィザード
の「Serial Port」設定で、通信モードが設定されているこ
とが必要です。

カメラの音声設定

簡単設定では、音声は無効になります。音声を有効にし
たい場合は、『ユーザーガイド』（PDF）をご覧ください。

RealShot Manager Advanced クライアントソフトウエアを利用するときの設定

マスターサーバーとなる NSR で、以下の設定を行いま
す。設定について詳しくは、『ユーザーガイド』（PDF）
をご覧ください。

1 「管理メニュー」の「サーバー設定」画面で、以下の
内容に設定する。

① ②
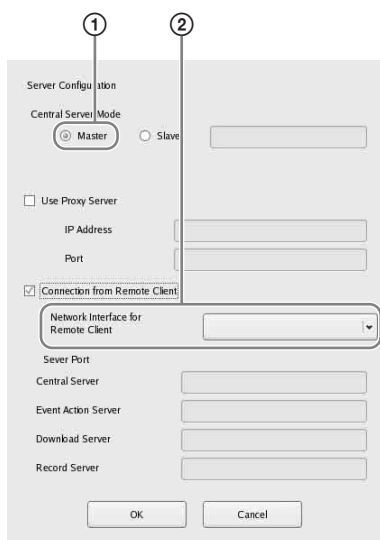
① ［セントラルサーバーモード］で［マスター］を
選択する。
② ［リモートクライアントからの接続］の［リモー
トクライアントとのネットワークインターフェ
イス］で、接続用ネットワークインターフェイ
スを選択する。

2 マスターサーバーにユーザーを作成する。
「ユーザー設定」画面で ＋（追加）をクリックし、
ユーザーを作成します。
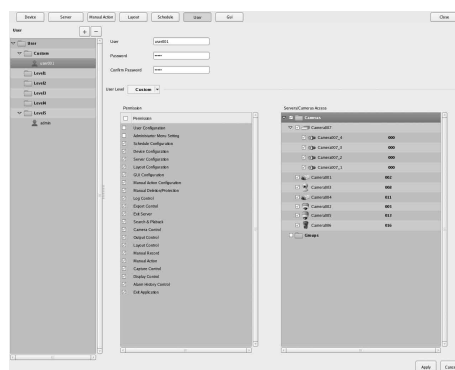
Step 4 動作確認を行う

一通りの設定が終了したら、メイン画面でカメラからの画像が表示されるかなどを確認します。

① レイアウトを変更し、登録されたカメラの画像を表示する。
「カメラ」ペインからカメラをモニターフレームにドラッグ＆ドロップすると、カメラからの画像を表示できます。

② モニターフレームをクリックしてアクティブ（水色枠）にし、「カメラコントロール」ペインの［コントロール］タブで、パン、チルト、ズーム操作を行う。

③ カメラの前を通過して、アラームが発生することを確認する。
簡単設定でアラーム記録設定を行った場合は、モニターフレームに赤枠が表示され、画面下部の「アラーム履歴」表示部に該当履歴が残ります。

④ 『モニタリング画面操作ガイド』（別紙）を参照し、各種操作を行う。

⑤ ［PLAYBACK］をクリックし、記録を再生する。
［PLAYBACK］をクリックすると、あらかじめ設定された時間だけ自動的に巻き戻して再生されます（クイックプレイバック）。
また、日時を入力して［GO］をクリックすると、記録された画像が再生されます。

⑥ 画面右下の［ERROR］ランプをクリックし、問題が発生していないか確認する。
［ERROR］ランプをクリックするとシステムログが表示されますので、問題が発生していないかログの内容を確認します。

メイン画面の操作については、『モニタリング画面操作ガイド』（別紙）および『ユーザガイド』（PDF）をご覧ください。

ご注意

USB デバイスを接続した際に、メイン画面右下の［ERROR］ランプが点灯する場合があります。本機に対応していない USB デバイスである可能性がありますので、「使用上のご注意」（54 ページ）および、「故障かなと思ったら」の「USB 接続した機器が動作しない」（85 ページ）を参照してください。

RealShot Manager Advanced をリモートクライアントとしてお使いの場合

以下の手順で動作確認を行います。

1 RealShot Manager Advanced にログオンする。
・ログオン時にサーバーを指定します。サーバーのアドレスで、ポートは「8082」を指定してください。
・［ユーザー名］と［パスワード］欄には、「サーバー設定」画面（78 ページ）で設定したユーザーのユーザー名とパスワードを入力してください。
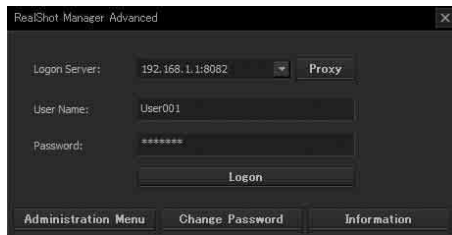
2 RealShot Manager Advanced のメイン画面で、本機に接続されているカメラをモニターフレームに割り当て、画像を表示できるか確認する。
カメラを割り当てるには、2 通りの方法があります。
・「カメラ」ペインから本機に接続されているカメラをモニターフレームにドラッグ＆ドロップする。
・モニターフレームをクリックして選択してから、「カメラ」ペインでカメラをダブルクリックする。

3 手順 2 で割り当てたカメラからの画像がモニターフレームに表示されることを確認する。

接続例

モニターの接続例

本機では、モニターの接続パターンが複数あります。以下に接続例を示します。

メモ

音声については、RCA と HDMI のどちらで出力するかを「セットアップウィザード」または「セットアップメニュー」の「Audio」画面で選択します。

例 1) HDMI モニター 2 台の場合

オーディオアンプ
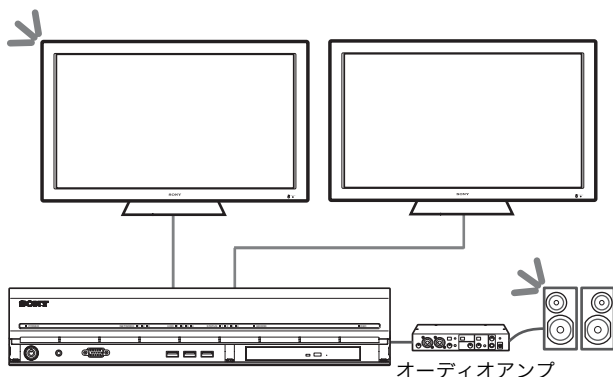
：音声出力可能な箇所

ご注意

本機を起動する前に、必ず HDMI モニターを接続し、HDMI モニターの電源をオンにしてください。

例 2) アナログ RGB モニター 2 台の場合

オーディオアンプ
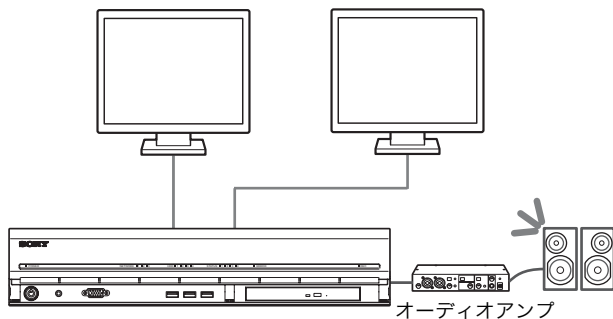
：音声出力可能な箇所

ご注意

・HDMI 端子 1、2 にモニターを接続しないでください。
・本機の起動時は、前面のモニター端子 1 にモニターを接続しないでください。

例 3) HDMI モニターとアナログ RGB モニターが 1 台ずつで、HDMI モニターで操作を行いたい場合

オーディオアンプ（オーディオ出力端子（L/R）に接続）
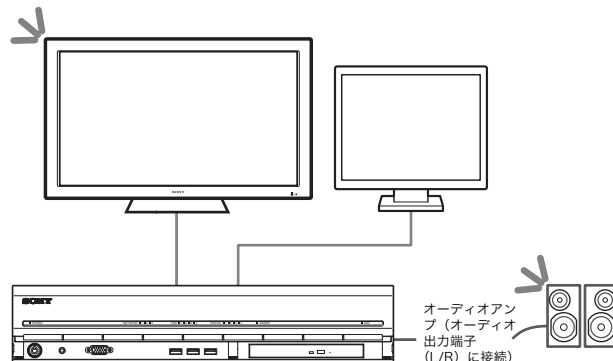
：音声出力可能な箇所

ご注意

・HDMI 端子 2 にモニターを接続しないでください。
・本機を起動する前に、必ず HDMI モニターを接続し、HDMI モニターの電源をオンにしてください。

例 4) HDMI モニターとアナログ RGB モニターが 1 台ずつで、アナログ RGB モニターで操作を行いたい場合

オーディオアンプ
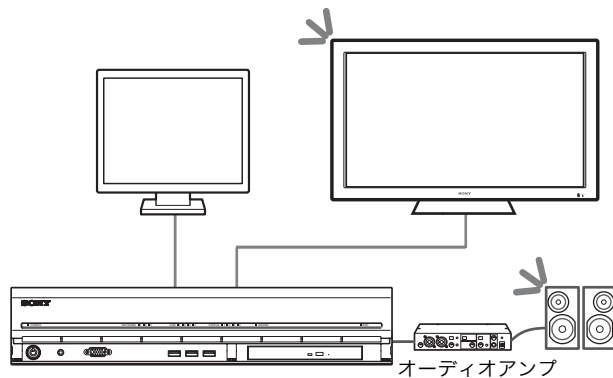
：音声出力可能な箇所

ご注意

・HDMI 端子 1 にモニターを接続しないでください。
・本機の起動時は、前面のモニター端子 1 にモニターを接続しないでください。

NSRE-S200 の接続例

NSR-1200/1100/1050H では、以下のようなツリー構成で、別売の NSRE-S200 を 7 台まで接続できます。

メモ

接続に使用するミニ SAS ケーブルは、NSRE-S200 に付属されています。

NSRE-S200 の増設は、以下の順番で行ってください。

NSR-1200/1100/1050H

① NSRE-S200

② ③

NSRE-S200 NSRE-S200

④ ⑥ ⑦ ⑤

NSRE-S200
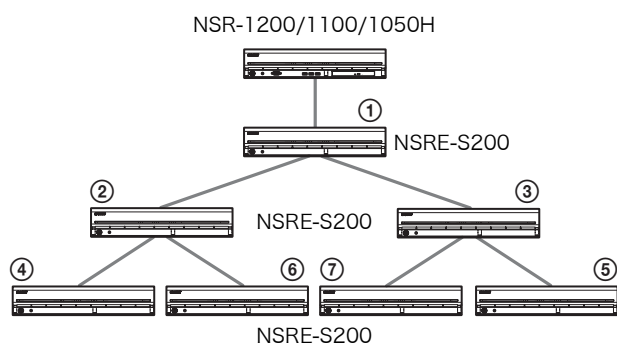
その他

STATUS LED の見かた

本機にエラーが発生すると、前面の ERROR LED が状況に応じて点滅または点灯し、STATUS LED は点灯します。

```
STATUS ■1 ■2 ■3 ■4        ■ ERROR
```

STATUS LED では、以下のようにエラーの状況を示します。

起動中のエラー
（起動中にエラーが発生すると、ERROR LED が点滅します）

エラーコード	STATUS LED	ERROR LED	考えられる原因
1	1 2 3 **4**	点滅	電圧供給に問題があります。
2	1 2 **3** 4	点滅	CPU ファンの故障です。
3	1 2 **3** **4**	点滅	メモリーモジュールに問題があります。
4	1 **2** 3 4	点滅	CMOS バッテリーに問題があります。
5	1 **2** 3 **4**	点滅	ビデオ RAM またはコントローラーに問題があります。
6	1 **2** **3** 4	点滅	ハードディスクのコントローラーに問題があります。
7	1 **2** **3** **4**	点滅	ブート可能なデバイスが見つかりません。
8	**1** 2 3 4	点滅	ブート可能な OS が見つかりません。
9	**1** 2 3 **4**	点滅	1 つ以上のハードディスクに問題があります。
A	**1** 2 **3** 4	点滅	RAID OS ボリュームに問題があります。
B	**1** 2 **3** **4**	点滅	X11 の起動に失敗しました。
C	**1** **2** 3 4	点滅	アプリケーションの起動に失敗しました。
D	**1** **2** 3 **4**	点滅	未使用
E	**1** **2** **3** 4	点滅	未使用
F	**1** **2** **3** **4**	点滅	RAID データボリュームに問題があります。

STATUS LED および、ERROR LED は■を点灯で示しています。

作動中のエラー
（作動中にエラーが発生すると、ERROR LED が点灯します）

エラーコード	STATUS LED	ERROR LED	考えられる原因
1	1 2 3 **4**	点灯	温度が上昇しました。
2	1 2 **3** 4	点灯	CPU ファンに問題があります。
3	1 2 **3** **4**	点灯	電源のファンに問題があります。
4	1 **2** 3 4	点灯	電圧供給に問題があります。
5	1 **2** 3 **4**	点灯	HDD ファン 1 に問題があります。
6	1 **2** **3** 4	点灯	HDD ファン 2 に問題があります。
7	1 **2** **3** **4**	点灯	HDD に障害があります。
8	**1** 2 3 4	点灯	未使用
9	**1** 2 3 **4**	点灯	未使用
A	**1** 2 **3** 4	点灯	未使用
B	**1** 2 **3** **4**	点灯	OS の動作に異常があります。
C	**1** **2** 3 4	点灯	アプリケーションの動作に異常があります。
D	**1** **2** 3 **4**	点灯	「メイン」画面の［ERROR］ランプが点灯しています。
E	**1** **2** **3** 4	点灯	RAID データボリュームに異常があります。
F	**1** **2** **3** **4**	点灯	RAID データボリュームを再構築しています。

I/O ポートについて

I/O ポートのピン配列

センサー入力

Pin NO.	SENSOR IN
1	3.3 v
2	IN_8 −
3	IN_8 +
4	IN_7 −
5	IN_7 +
6	IN_6 −
7	IN_6 +
8	IN_5 −
9	IN_5 +
10	IN_4 −
11	IN_4 +
12	IN_3 −
13	IN_3 +
14	IN_2 −
15	IN_2 +
16	IN_1 −
17	IN_1 +
18	GND

アラーム出力

Pin NO.	ALARM OUT
1	GND
2	OUT_8 −
3	OUT_8 +
4	OUT_7 −
5	OUT_7 +
6	OUT_6 −
7	OUT_6 +
8	OUT_5 −
9	OUT_5 +
10	OUT_4 −
11	OUT_4 +
12	OUT_3 −
13	OUT_3 +
14	OUT_2 −
15	OUT_2 +
16	OUT_1 −
17	OUT_1 +
18	GND

RS-422/485

Pin NO.	RS-422	RS-485
19	TX-	Tx–
20	TX+	Tx+
21	RX-	
22	RX+	

I/O ポートの接続方法

以下のようにして、センサー入力端子とアラーム出力端子にワイヤーを接続します。

ワイヤー（AWG No.26 ～ 20）を接続したい穴の上、または下のスロットにマイナスドライバーを差し込み、ワイヤーを差し込んでから、マイナスドライバーを引き抜く。

ご注意

マイナスドライバーは、極端に強く差し込まないでください。故障の原因となります。
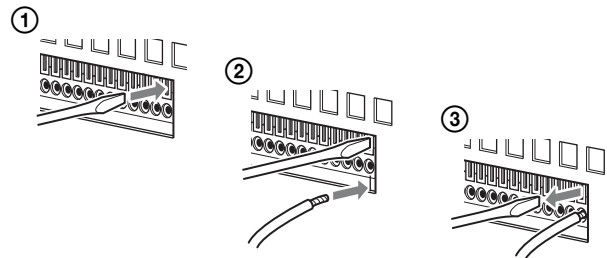
同じ手順で、必要なワイヤーをすべて接続します。

センサー入力への配線図 1

本機内部　　　　　　　　　　　　外部

3、5、7、9、11、13、15、17 ピン
（SENSOR IN ＋）

2.35 kΩ

センサー装置
出力：
DC 3.3 V ～
24V

2、4、6、8、10、12、14、16 ピン
（SENSOR IN −）

センサー入力への配線図 2

本機内部   外部

1 ピン（VDD）（最大 200 mA）

3、5、7、9、11、
13、15、17 ピン
（SENSOR IN ＋）

ワイヤー

2.35 kΩ

メカニカル
スイッチ

2、4、6、8、10、
12、14、16 ピン
（SENSOR IN −）
18 ピン（GND）

または

アース

オープンコレクター
出力装置
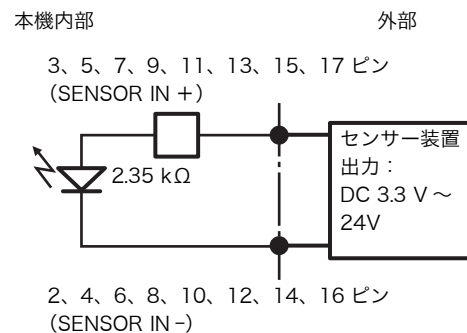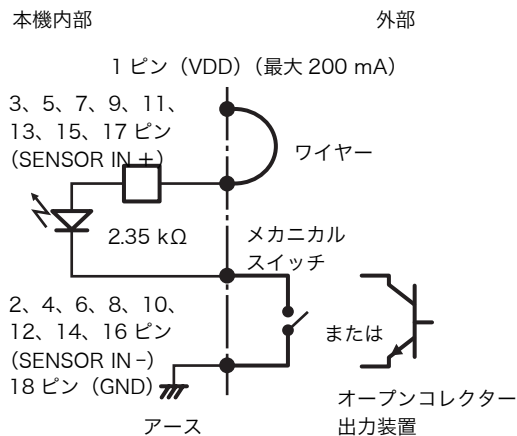
配線図 2 の回路を使用した場合は、NSR と電気的に絶縁
されなくなりますので、ノイズや過電圧、過電流を発生
しない外部回路を構成してください。

アラーム出力への配線図

本機内部   外部

3、5、7、9、11、13、
15、17 ピン
（ALARM OUT ＋）

5 V

磁気リレー
AC 24 V/DC
24 V
1 A 以下

回路例

2、4、6、8、10、12、
14、16 ピン
（ALARM OUT −）

アース
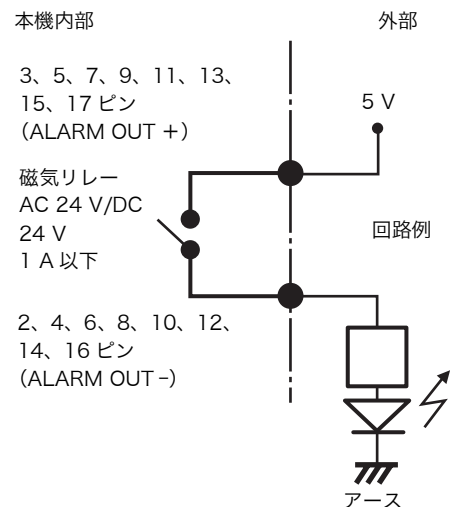
故障かな？と思ったら

まず初めに、下記の項目をもう 1 度チェックしてみてく
ださい。それでも解決しないときは、お買い上げ店また
はソニー業務用商品相談窓口にご相談ください。

本機が起動しない

・本機の電源スイッチがオンになっているか確認してくだ
　さい。
・電源コードが正しく接続されているか確認してください。
・お使いのコンセントに他の機器を接続してみるなどし
　て、コンセントが通電しているか確認してください。
・本機前面の HDD LED で、ハードディスクがアクセス
　中でない（HDD LED が点滅していない）ことを確認
　してから、本機背面の電源スイッチを○の方向へ長押し
　（10 秒程度）して強制的に電源を切ってください。電
　源を切った後、再度電源を入れてください。
・本機では、起動中にファイルシステムをチェックします
　が、使用容量に応じてチェックにかかる時間が長くなり
　ます。使用状況によっては、2 時間以上かかることもあ
　ります。ファイルシステムのチェック中は、本機前面の
　HDD LED が点滅します。
・本機が正しく起動できない場合、以下のような画面が表
　示される場合があります。

```
NSR DOM Menu

1. HDD Restore
2. DOM Restore
3. Software Restore
4. Reboot the system
5. Shutdown the system

Enter your choice :
```
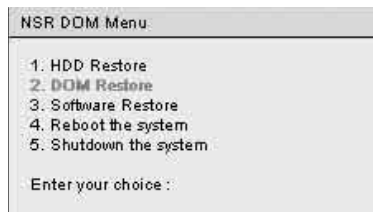
この場合、次の手順で確認を行ってください。
1. ［5. Shutdown the system］を選択し、Enter
　　キーを押す。
　　電源が切れます。
2. 「ハードディスクにアクセスできない」を参照
　　し、ハードディスクが正しく接続されているか
　　確認する。
3. 電源を入れ直し、正しく起動するか確認する。

モニターに何も表示されない

・本機の電源スイッチがオンになっているか確認してください。
・電源コードが正しく接続されているか確認してください。
・モニターケーブルが正しく接続されているか確認してください。モニターがモニターコネクター1に接続されているか確認してください。
・モニターの解像度設定を間違って行った場合は、モニターの解像度が足りていないため、「out of range」と表示される場合があります。Ctrl キーと Alt キー、－（マイナス）キーを同時に何度か押して、出力されている画像の解像度を下げてください。モニターに合った解像度になると、画面が表示されます。その後メニューからシステムを再起動し、正しい解像度を設定し直してください。詳しくは『ユーザーガイド』（PDF）をご覧ください。

HDMI モニター端子に接続したモニターが正常に映らない

・HDMI モニターの入力切り替えをしたり、ケーブルの抜き差しをすると、まれに映像が正常に映らない場合があります。その場合は、以下を行ってみてください。
　1. モニターの入力を切り替える。
　2. モニターの電源を入れ直す。

メモ

上記を行っても復帰しない場合は、いったん HDMI ケーブルを取りはずし、アナログ RGB モニターを使用して運用を続けてください。運用を止められるタイミングがきたら、本機を再起動し、再度 HDMI モニターを接続してみてください。

外部接続機器が正しく動作しない

・ケーブルが正しく接続されているか、ピンが折れたり曲がっていないかなどを確認してください。

USB 接続した機器が動作しない

・USB デバイスを接続した際に、メイン画面右下の［ERROR］ランプが点灯する場合があります。本機に対応していない USB デバイスである可能性がありますので、以下の手順で確認してください。
　1. ［ERROR］ランプをクリックする。
　　システムログが表示されます。
　2. システムログの中に「Unsupported USB device」というエラーが表示されていないか確認する。
　　「Unsupported USB device」が表示されている場合は、この USB デバイスは本機に対応していません。

・USB メモリーは、一般的な USB 2.0 マスストレージに対応しています。USB 2.0 マスストレージでも一部の製品によっては、データの書き込みの際にエラーとなる可能性があります。書き込みの際にエラーが発生した場合には、別の機種の USB メモリーをお使いください。
・USB デバイスを正しくご使用いただくために、USB ハブ経由などでなく本機の USB コネクタに直接接続してお使いください。USB ハブ、延長ケーブル経由でご使用の場合は、動作保証いたしません。
・接続する USB 機器の説明書を参照してください。

DVD/CD が読めない

・ディスクの種類を確認してください。
・DVD/CD が正しく DVD/CD ドライブに挿入されているか確認してください。
・DVD/CD が汚れていないか、傷が付いていないか確認してください。

DVD/CD ドライブのトレイが出てこない

・本機の電源がオンになっているか確認してください。
・先の細いもの（クリップの先をのばしたものなど）を、DVD/CD ドライブのイジェクト穴に入れ、トレイが排出されるまでゆっくりと押し込んでください。

NETWORK LED が点灯しない

・ネットワークケーブルが正しく接続されているか確認してください。

ハードディスクにアクセスできない

・ハードディスクドライブが正しく取り付けられているか確認してください。
・本機前面の HDD LED で、どのドライブに異常があるかを確認してください。ハードディスクが故障しているときは、該当するハードディスクの LED が消灯します。
・ハードディスクへのアクセスが頻繁になると、HDD LED が高速で点滅するため、明るい場所では消えているように見えることがあります。

リモートクライアントから本機にアクセスできない

・本機が正しく動作しているか（ハードディスク、ネットワーク、ソフトウェアなどに異常がないか）確認してください。
・本機のセントラルサーバーの設定が正しいか確認してください。
・RealShot Manager Advanced のユーザー名、パスワードおよび接続ポートが正しいか確認してください。
・RealShot Manager Advanced のユーザーガイドのトラブルシューティングを参照してください。

すぐに温度が上昇する

・前面、側面、背面の通風孔がふさがれていたり、通風孔にほこりがたまっていないか確認してください。

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>
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> Ty Coon, President of Vice

That's all there is to it!

仕様

NSR-1200/1100/1050H

プロセッサー

CPU NSR-1200：Quad Core Xeon
     NSR-1100：Dual Core Xeon
     NSR-1050H：Dual Core Xeon

メモリー

オンボードフラッシュメモリー
     4 GB
内蔵メモリー
     NSR-1200： 2 GB
     NSR-1100： 1 GB
     NSR-1050H： 1 GB

記憶装置

内蔵ハードディスクドライブ
     NSR-1200：2 TB
       (SATA-II 500 GB × 4 台)
     NSR-1100：1 TB
       (SATA-II 500 GB × 2 台)
     NSR-1050H：500 GB
       (SATA-II 500 GB × 1 台)
     ハードディスクドライブの容量計算に関して
       は、1 GB を 1,000 × 1,000 × 1,000 ＝
       10 億バイトとして計算しています。
DVD/CD ドライブ（前面）
     1 台
     対応メディア：DVD+R、DVD-R、
       DVD-ROM、CD-R、CD-RW、CD-ROM

外部コネクター

前面   モニター出力：
         アナログ RGB（ミニ D-SUB 15 ピン）(1)
               USB：USB 2.0（3）
背面   モニター出力：
         アナログ RGB（ミニ D-SUB 15 ピン）(2)
         HDMI（2）
       音声出力（L）（1）
       音声出力（R）（1）
       マイク入力（1）
       LAN 端子（1000Base-T/100Base-TX/
         10Base-T）(RJ-45)（4）
       USB：USB 2.0（3）

       ミニ SAS 出力（別売の NSRE-S200 接続用、
         Mini SAS x4 (SFF-8088)、3.0 Gbit/s）
         (1)
       センサー入力（DC 3.3 V ～ 24 V デバイス対
         応、フォトカップラー入力、本体とは電気
         的に絶縁）(8)
       アラーム出力（最大 DC24 V、1 A）
         （メカニカルリレー出力、本体とは電気的に
         絶縁）(8)
       UPS 用シリアル端子：RS-232C（1）
       アナログカメラコントロール用端子（NSR-
         1050H および NSBK-A16 搭載時のみ有
         効）：RS-232C（1）
               RS-422/485（1）

使用環境

動作温度：5 ～ 40 ℃
動作湿度：20 ～ 80%（最大湿球温度：30 ℃）
         （結露のないこと）
保存温度：－ 20 ～＋ 60 ℃
保存湿度：20 ～ 90%（最大湿球温度 35 ℃、結露のな
         いこと）

電源・その他

電源：   AC 100-127 V / 200-240 V（50/60 Hz）
消費電力：最大 350 W
外形寸法：430（W）× 87（H）× 417（D）mm
         （突起含まず）
本体重量：NSR-1200 約 13.5 kg
         NSR-1100 約 12 kg
         NSR-1050H 約 11.5 kg

別売りアクセサリー

ラックマウントキット NSR-RM1
アナログエンコーダーキット NSBK-A16
拡張ストレージユニット NSRE-S200

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- Pour en savoir plus sur les termes et les conditions de la garantie de l'enregistreur, consultez la carte de garantie incluse dans le paquet.
- Le logiciel fourni avec l'enregistreur ne peut pas être utilisé avec d'autres enregistreurs.
- Il est impossible d'installer dans l'équipement un autre logiciel que celui fourni par Sony pour être utilisé avec cet équipement.
- Notez que les caractéristiques de l'enregistreur et du logiciel fourni sont sujettes à modifications sans préavis pour amélioration.
- L'enregistreur utilise MD5 à haute sécurité pour la sauvegarde de mot de passe.

Décharge de responsabilité pour les contenus enregistrés

Sony Corporation décline toute responsabilité quelle qu'elle soit pour de quelconques problèmes provenant d'une panne d'enregistrement, ou d'un dommage ou d'un effacement du con-tenu enregistré sur cet appareil, quelle qu'en soit la raison. Cela inclut les réclamations pour un dédommage-ment du contenu enregistré, et pour tout dommage concomitant ou indirect. Sony Corporation ne réparera, ne restaurera ou ne dupliquera aucun contenu en-registré. Votre utilisation de ce produit est sujette à ces conditions.

Avant de lire ce manuel

Assurez-vous de lire le supplément « Règlements de sécurité ».

FR

Précautions d'utilisation

Importantes informations concernant la sécurité

- Veillez bien à raccorder l'appareil à une source d'alimentation conforme à ses caractéristiques.
- Utilisez uniquement le cordon d'alimentation fourni. N'enroulez pas le cordon d'alimentation et ne le regroupez pas avec d'autres cordons. Ne superposez pas les connexions. Le non-respect des courants nominaux entraîne un risque d'incendie ou d'autres accidents.
- Assurez-vous que toutes les prises murales et tous les cordons d'alimentation sont correctement mis à la terre.
- N'utilisez pas l'appareil si son couvercle ou son boîtier est ouvert ou a été retiré. Sinon, il existe un risque d'incendie ou de choc électrique. N'essayez pas d'ouvrir le couvercle ou le boîtier vous-même. Contactez toujours votre fournisseur, s'il est nécessaire d'ouvrir l'appareil.

Importantes informations concernant l'installation

Endroits où l'appareil peut être utilisé/rangé
Pour prolonger la durée de vie de l'appareil, évitez de l'utiliser ou de le ranger dans les endroits suivants :
- endroits soumis à des températures extrêmes. (Je suis les spécifications de cet appareil par tous les moyens et s'il vous plaît l'utilise.) ;
- endroits exposés de manière prolongée à la lumière directe du soleil et près d'appareils de chauffage. (Notez que la température d'été à l'intérieur d'une voiture fermée peut dépasser +50 °C/+122 °F) ;
- endroits très humides ou poussiéreux ;
- endroits soumis à de fortes vibrations ;
- endroits soumis à de forts champs magnétiques ;
- à proximité d'émetteurs radio ou TV produisant un fort champ magnétique.

N'obstruez pas les orifices de ventilation
- Les orifices de ventilation sur les côtés de l'appareil empêchent toute surchauffe interne. Laissez toujours un espace d'au moins 10 cm de chaque côté ainsi qu'à l'arrière et au-dessus de l'appareil.
- N'utilisez pas l'appareil dans un endroit fermé ou tout autre espace confiné.

- Assurez-vous qu'aucun câble ni qu'aucun autre objet ne se trouve près de l'ouverture de ventilation à l'arrière de l'appareil. Si l'ouverture est bloquée, cela risquerait d'entraîner une surchauffe interne susceptible de causer un incendie ou des dommages.
- De plus, si l'appareil est installé dans un rack, veillez à ce que la ventilation à l'arrière de l'appareil et les ouvertures de ventilation à l'avant ne soient pas bloquées par des câbles ou d'autres objets. N'installez pas l'appareil dans un environnement non-conforme aux conditions ci-dessus.

Utilisez l'appareil en position horizontale
- L'appareil est conçu pour fonctionner uniquement à l'horizontale.
- N'installez pas l'appareil sur une surface inclinée et protégez l'appareil contre tout choc.
- Si l'appareil tombe ou s'il est sujet à des chocs violents, il risque d'être sérieusement endommagé.
- Lors de l'installation de l'appareil dans un rack, maintenez-la à l'horizontale. Si l'appareil n'est pas correctement positionné, il risque de mal fonctionner. De plus, il est fortement recommandé de fixer correctement le rack à un mur ou un autre support, de sorte qu'il ne tombe pas.

Entretien
- Avant de nettoyer l'appareil ou d'effectuer toute autre tâche d'entretien, déconnectez le cordon d'alimentation de la prise murale.
- Pour nettoyer l'appareil, essuyez légèrement le boîtier et les panneaux à l'aide d'un chiffon sec. Pour éliminer les taches tenaces, humidifiez légèrement le chiffon avec un détergent neutre non agressif, puis essuyez à l'aide d'un chiffon sec.
- N'utilisez pas de nettoyant à l'alcool, de solvant, d'essence, d'insecticide ou d'autre substance volatile, car cela risque d'attaquer la finition et d'entraîner une décoloration.
- De la poussière peut s'accumuler dans les ouvertures de ventilation sur l'avant de l'appareil. Lorsque vous enlevez la poussière, veillez à ne pas soumettre l'appareil à des chocs ou à des vibrations.

Transport
Utilisez le matériel d'emballage d'origine ou un emballage similaire pour protéger l'appareil des chocs.

Précautions pour les appareils avec lecteur de disque dur intégré

Cet appareil est équipé d'un lecteur de disque dur (HDD) interne. Il s'agit d'un appareil de précision. En cas de choc, de vibrations, d'électricité statique et de température ou d'humidité élevée, une perte de données risque de se produire. Observez attentivement les précautions suivantes lors de l'installation et de l'utilisation de l'appareil.

Protection contre les chocs et les vibrations

En cas de chocs ou de vibrations, le lecteur de disque dur risque d'être endommagé et une perte de données est susceptible de se produire.

- Lors du transport de l'appareil, utilisez le matériel d'emballage spécifié. Lors du transport sur un diable ou un autre appareil similaire, utilisez un type de dispositif amortissant les vibrations excessives. Les chocs et vibrations excessifs risquent d'endommager le lecteur de disque dur.
- Ne déplacez jamais l'appareil lorsque celui est sous tension. De plus, avant de retirer l'appareil d'un rack ou de l'y insérer, vérifiez que l'alimentation électrique est coupée.
- Protégez des chocs tous les appareils équipés de lecteurs de disque dur intégrés se trouvant dans le rack.
- Avant de retirer l'appareil d'un rack ou de l'y insérer, vérifiez que l'alimentation de tous les appareils équipés de lecteurs de disque dur intégrés se trouvant dans le rack est également coupée.
- Ne retirez pas les panneaux ou les parties externes de l'appareil.
- Si vous placez l'appareil sur le sol ou sur toute autre surface, vérifiez qu'il est équipé des pieds spécifiés et posez l'appareil avec précaution. En l'absence de pieds, commencez par monter les pieds spécifiés. Ne placez pas l'appareil près d'autres appareils susceptibles de provoquer des vibrations.

Attendez 30 secondes après avoir mis l'appareil hors tension

Les plateaux à l'intérieur du lecteur de disque dur intégré continuent à tourner pendant un court instant après la mise hors tension et les têtes de lecture se trouvent en position dangereuse. Pendant ce court instant, l'appareil est plus sensible aux chocs et aux vibrations qu'en fonctionnement normal. Evitez de soumettre l'appareil à des chocs, même très légers, pendant au moins 30 secondes après la mise hors tension. Ensuite, le disque dur s'arrête complètement et l'appareil peut être déplacé.

Précautions relatives à la température et à l'humidité

Utilisez et rangez l'appareil uniquement dans des endroits respectant les plages de températures et d'humidité spécifiées. (Je suis les spécifications de cet appareil par tous les moyens et s'il vous plaît l'utilise.)

En cas de lecteur de disque dur défectueux

Même si le lecteur de disque dur intégré montre des signes de problème de fonctionnement, veuillez observer toutes les précautions ci-dessus. Cela évitera d'aggraver les dommages jusqu'à ce que le problème puisse être diagnostiqué et corrigé.

Remplacement du disque dur et d'autres consommables

Le disque dur, le ventilateur et la batterie de l'appareil sont des consommables qui doivent être régulièrement remplacés. Lorsque vous utilisez l'appareil à température ambiante, le cycle de remplacement est d'environ deux à trois ans. Mais ce cycle de remplacement ne représente qu'une indication et ne garantit pas la durée de vie de ces consommables. Pour plus de détails sur le remplacement de ces pièces, veuillez contacter votre revendeur.

Précautions pour l'utilisation de dispositifs USB

- Cet appareil prend en charge les dispositifs de stockage de masse USB 2.0 standard. Il arrive cependant que, selon le type de dispositif de stockage de masse USB 2.0, des erreurs se produisent lors de l'écriture de données sur le dispositif. Si des erreurs se produisent lors de l'écriture de données, utilisez un autre type de dispositif de mémoire USB.
- Pour garantir un bon fonctionnement des dispositifs USB, évitez de raccorder les dispositifs à l'aide d'un concentrateur USB. Raccordez les dispositifs directement aux connecteurs USB de l'appareil. Le fonctionnement n'est pas garanti quand les dispositifs sont raccordés à l'aide d'un concentrateur USB, un commutateur USB ou un câble d'extension.

Vue d'ensemble

Les appareils de la série NSR sont des serveurs d'enregistrement sur disque dur pour caméras de réseau. Le NSR vous permet de surveiller et d'enregistrer les images de caméras de réseau (JPEG ou MPEG-4). Il vous permet également d'effectuer une lecture ou une recherche des images enregistrées, ce qui en fait un système vraiment versatile.

Contrôle de caméras compatibles depuis des endroits distants
Vous pouvez effectuer des opérations de panoramique, d'inclinaison et de zoom sur des caméras compatibles.

Compatible avec les caméras analogiques
Vous pouvez surveiller et enregistrer des images de caméras analogiques en les raccordant directement à l'appareil[1] .

1) L'unité NSR-1200/1100 nécessite une extension NSBK-A16 (option), alors que l'unité NSR-1050H possède un connecteur intégré.

Les disques durs à grande capacité permettent des enregistrements de longue durée
Comme il est équipé de disques durs à très grande capacité, l'appareil est capable d'enregistrer des images de très haute qualité pendant de longues durées. Pour des exemples de référence, voir « Données de référence pour l'installation » (page 110).

Type Slim (2U), modèle monté sur un châssis de 19 pouces à faible encombrement
Avec le kit de montage en châssis (vendu séparément), l'enregistreur peut être installé sur un châssis 19 pouces à la norme EIA pas universel.

Enregistrement à résolution élevée jusqu'à 480 ips (VGA, JPEG)
Le NSR-1200 prend en charge jusqu'à 64 caméras, le NSR-1100 prend en charge jusqu'à 32 caméras et le NSR-1050H prend en charge jusqu'à 20 caméras. Le NSR-1200 enregistre avec une fréquence d'images totale de 480 ips[1] (240 ips avec le NSR-1100, 120 ips avec le NSR-1050H), avec une résolution VGA (640 × 480 pixels)[2] et le format JPEG (1 image d'environ 31 Ko) pour plus de netteté dans les images.

1) Fréquence d'images maximale lorsque 16 caméras sont connectées à l'enregistreur. Chaque caméra présente une fréquence d'images d'environ 30 ips. Cette fréquence d'images peut diminuer en raison de la fragmentation des disques durs internes. Les valeurs sont basées sur des mesures de Sony. Ces valeurs ne sont pas garanties, car la performance peut varier en fonction de l'environnement de l'utilisateur.
2) En résolution QuadVGA (1 280 × 960), la fréquence d'image est 1/4 de la résolution VGA.

Haut degré de fiabilité
Le NSR-1200 prend en charge RAID 5[1] et présente un haut degré de fiabilité. Le système peut continuer de fonctionner même si l'un des disques durs souffre d'un dysfonctionnement. De la même manière, comme le logiciel et les réglages du système sont stockés dans la mémoire flash interne du NSR, si le logiciel présente un dysfonctionnement, il est possible de restaurer le système très rapidement. Le NSR prend en charge les systèmes d'alimentation sans coupure (UPS - uninterruptible power supplies), donc son système est extrêmement fiable.

1) RAID 5 est un système de division et de stockage des données et de parité (codes de correction d'erreur) sur plus d'un disque dur. Bien que le système permette un fonctionnement continu, la récupération de données perdues n'est pas garantie en cas de dysfonctionnement de l'un des disques durs. De plus, en raison des charges de traitement internes élevées pendant la reconstruction qui suit le remplacement d'un disque défectueux, l'appareil peut ne pas être capable d'enregistrer des images avec le taux configuré pendant cette reconstruction.

Autres fonctions
- Vous pouvez afficher les images de 64 caméras au maximum (8 × 8 images) sur un écran.
- Le NSR peut faire des enregistrements manuels, programmés et d'alarme, entre autres.
- Le NSR est équipé d'une fonction de détection d'activité[1] (Video Motion Detection (Enregistreur)).
- Recherches d'images enregistrées par nom de caméra, par date, par alarme et par d'autres méthodes.
- Création de zones privées en utilisant les fonctions de masquage dynamique[2] du NSR. Le masquage dynamique couvre le panoramique, l'inclinaison et le zoom.
- Un traitement précis des alarmes est rendu possible en effectuant différents types de filtrage[3], à l'aide des résultats du traitement d'image envoyés par la caméra, sous la forme de métadonnées d'information objet. Puisque le filtrage peut être appliqué aux métadonnées qui ont déjà été enregistrées, vous pouvez aussi rechercher des zones d'intérêt, une fois l'enregistrement terminé.
- L'enregistrement et la relecture[4] audio de caméras compatibles sont aussi pris en charge.

1) Certaines fonctions sont limitées selon le nombre de caméras connectées.
2) Certaines fonctions sont limitées selon le modèle de caméra relié.
3) Pour exécuter une détection de mouvement et une détection de non-mouvement à l'aide de métadonnées, une caméra qui prend en charge la détection de mouvement par métadonnées est requise. L'utilisation de métadonnées est prise en charge jusqu'à 32 caméras.
4) Des amplificateurs ou haut-parleurs optionnels sont nécessaires.

> **Important**
>
> Ce manuel ne décrit que l'installation et la configuration du NSR. Pour des explications plus détaillées sur l'utilisation de l'appareil, consultez le guide de l'utilisateur (PDF).

Exigences de système

Le matériel requis pour l'utilisation de cet enregistreur est le suivant.
- Caméras de réseau Sony
  Contactez votre revendeur pour les détails sur les caméras de réseau Sony compatibles.
- Moniteur[1]
- Clavier USB[2]
- Souris USB[3]
- Télécommande USB[4]
- Interrupteur de réseau
- Câble 1000Base-T/100Base-TX/10Base-T
- Dispositif de mémoire USB[5]

1) Cet appareil prend en charge les dispositifs compatibles avec HDMI et les écrans d'ordinateurs qui prennent en charge l'entrée RVB.
   Il est possible de déterminer les résolutions suivantes.
   -Haute définition totale (1 920 × 1 080)
   -WUXGA (1 920 × 1 200)
   -XGA large totale (1 360 × 768)
   -UXGA (1 600 × 1 200)
   -SXGA (1 280 × 1 024)
   -XGA (1 024 × 768)
2) Utilisez un clavier USB avec câble. Les touches autres que les touches standard peuvent cependant ne pas fonctionner. Les claviers sans fil ou à infrarouge peuvent aussi ne pas fonctionner correctement.
3) Utilisez une souris USB avec câble. Les souris à trois boutons ou à roue peuvent cependant ne pas fonctionner correctement. Les souris sans fil ou à infrarouge peuvent aussi ne pas fonctionner correctement.
4) Vous pouvez utiliser une télécommande pour contrôler les opérations de panoramique, d'inclinaison ou de zoom des caméras.
   -Cet appareil prend en charge les télécommandes USB IP Desktop de CH Products. Les autres télécommandes ne sont pas prises en charge.
5) Nécessaire lors de la sauvegarde d'informations de système, comme avec les journaux.
   -Cet appareil prend en charge les dispositifs de stockage de masse USB 2.0 standard. Il arrive cependant que, selon le type de dispositif de stockage de masse USB 2.0, des erreurs se produisent lors de l'écriture de données sur le dispositif. Si des erreurs se produisent lors de l'écriture de données, utilisez un autre type de dispositif de mémoire USB.

Remarque

Si vous utilisez des écrans qui prennent en charge l'entrée HDMI et RVB, nous vous recommandons d'utiliser l'entrée RVB.

Contenu de l'emballage

Vérifiez que les éléments suivants sont compris dans l'emballage :

NSR-1200/1100
- Serveur d'enregistrement de surveillance NSR-1200/1100 (1)
- Clef de panneau avant (2)
- Manuel d'installation (ce document) (1)
- Guide des premiers pas (1)
- Guide d'opération de la fenêtre de surveillance (1)
- Règlements de sécurité (1)
- Livret de DEEE (1)
- Livret de garantie (1)
- Pieds de caoutchouc (4)

NSR-1050H
- Serveur d'enregistrement de surveillance NSR-1050H (1)
- Clef de panneau avant (2)
- Câble d'entrée de caméra analogique (1)
- Manuel d'installation (ce document) (1)
- Guide des premiers pas (1)
- Guide d'opération de la fenêtre de surveillance (1)
- Règlements de sécurité (1)
- Livret de DEEE (1)
- Livret de garantie (1)
- Pieds de caoutchouc (4)

Remarques
- Cet emballage peut contenir un matériel supplémentaire et/ou de la documentation pour ces options.
- Conservez les boîtes et les matériaux d'emballage pour une utilisation ultérieure éventuelle.
- Le kit de mise en rack (NSR-RM1) est optionnel (vendu séparément).

Téléchargement de fichiers stockés sur le NSR

Les documents, comme les modes d'emploi et les outils, sont stockés sur l'unité NSR. Voici la marche à suivre pour télécharger des fichiers stockés sur l'unité NSR.

1 Utilisez un client FTP comme Internet Explorer pour déterminer l'URL suivant sur votre ordinateur. ftp://ftptool@<adresse IP du NSR>

2 Saisissez le nom d'utilisateur et le mot de passe suivant.
Nom utilisateur :ftptool
Mot de passe :ftptool

> **Remarque**
>
> Pour modifier le nom d'utilisateur et le mot de passe, changez la configuration [Enable user to Get Tools from Remote] dans « FTP » du menu Configuration. De plus, si vous changez le nom d'utilisateur, vous devez aussi changer l'adresse qui suit « ftp:// » dans l'adresse URL spécifiée avec les nouveaux paramètres « nom d'utilisateur@<adresse IP du NSR> ».

Les dossiers et fichiers suivants apparaissent sur le client FTP.

3 Cliquez sur les dossiers qui contiennent les fichiers souhaités.

Dossier
Manual : contient les modes d'emploi (PDF).
SourceCode : Contient le code source GPL/LGPL et d'autres données semblables.
Tool : contient RealShot Manager Advanced et Media File Player.
Fichier
README.txt : contient des informations sur chaque dossier.

Les fichiers compris dans chaque dossier s'affichent.

4 Cliquez sur les fichiers que vous souhaitez télécharger.

Utilisation du manuel en PDF

Le NSR stocke les modes d'emplois et autres documents (en japonais, anglais, français, allemand, italien, espagnol, chinois simplifié et russe).
Ces manuels sont en format PDF (Portable Document Format).

Préparatifs

Le logiciel suivant doit être installé sur votre ordinateur pour utiliser les modes d'emploi stockés sur le NSR.
• Adobe Reader Version 6.0 ou supérieure

> **Remarque**
>
> Si Adobe Reader n'est pas installé, vous pouvez le télécharger à l'adresse suivante :
> http://www.adobe.com/fr

Adobe et Adobe Reader sont des marques commerciales de Adobe Systems Incorporated aux Etats-Unis et/ou dans d'autres pays.

Visualisation de manuels en PDF

1 Consultez « 'Téléchargement de fichiers stockés sur le NSR », et téléchargez le manuel dans votre langue dans le dossier « Manual » du NSR.

2 Double-cliquez sur le fichier téléchargé.

> **Remarque**
>
> Il arrive que, en raison de la version d'Adobe Reader que vous utilisez, le fichier ne s'affiche pas correctement. Si le fichier ne s'affiche pas correctement, téléchargez la version la plus récente d'Adobe Reader depuis l'adresse mentionnée dans « Préparatifs ».

Caractéristiques et fonctions

Avant (Quand le un abri est ouvert)

NSR-1200/1100/1050H
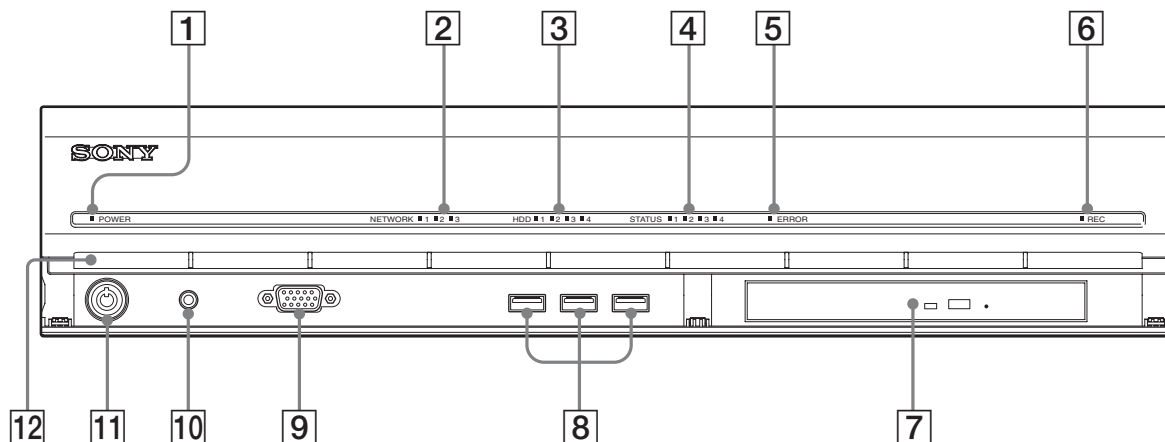
1 **Voyant LED d'alimentation**
S'allume en vert quand le démarrage est terminé.
S'allume en orange quand l'appareil est en mode de veille.

2 **Voyant LED de réseau (1 à 3)**
S'allume en vert en cas d'activité au connecteur LAN correspondant à l'arrière du NSR.

3 **Voyant LED HDD**
Clignote en vert lors de l'accès aux disques durs internes.
S'allume en orange si une erreur se produit avec un disque dur.

4 **Voyant LED d'état (1 à 4)**
S'allume en séquence (1, 2, 3, 4) lors du démarrage du NSR. Si une erreur se produit, le voyant LED d'état correspondant s'allume en même temps que le voyant LED d'erreur, qui s'allume ou clignote pour indiquer le type d'erreur.
Pour les détails, voir « Voyant LED STATUS » (page 130).

5 **Voyant LED d'erreur**
S'allume ou clignote quand une erreur se produit.

6 **Voyant LED REC (enregistrement)**
S'allume lors de l'enregistrement d'images.

7 **Lecteur DVD/CD**
Utilisez ce lecteur pour écrire des données depuis les disques durs du NSR sur DVD ou CD.

8 **Connecteur USB**
Utilisez ce connecteur pour raccorder un clavier, une souris ou une mémoire flash USB à l'unité NSR.

9 **Connecteur de moniteur 1**
Utilisez ce connecteur pour raccorder un moniteur.
Il n'est pas possible d'utiliser en même temps le connecteur de moniteur 1 (et le connecteur de moniteur 1 à l'arrière de l'appareil) et le connecteur de moniteur HDMI 1 à l'arrière de l'appareil.

10 **Interrupteur d'alimentation**
Appuyez sur cet interrupteur pour mettre l'appareil sous tension. (Vous ne pouvez pas mettre l'appareil hors tension avec cet interrupteur.)

11 **Verrou**
Utilisez ce verrou avec la clef de panneau avant fournie pour verrouiller la facette avant. Lorsque la facette avant est verrouillée, vous ne pouvez pas la retirer. Veillez à ne pas verrouiller la facette avant lorsqu'elle est retirée.
Vous pouvez distinguer entre la position verrouillée et la position déverrouillée en observant le verrou, comme sur l'illustration ci-dessous.

La facette avant est verrouillée

La facette avant est déverrouillée

⓬ Orifices de ventilation

Les orifices permettent à l'air de circuler de l'avant vers l'arrière du NSR.

Veillez à ne pas obstruer les orifices de ventilation, à ne pas laisser la poussière s'accumuler dans les grilles internes des orifices et à ne pas empêcher le mouvement de l'air. Si vous empêchez le mouvement de l'air, la chaleur peut s'accumuler dans le NSR et cela peut entraîner un incendie ou des dégâts.

Arrière

NSR-1200/1100
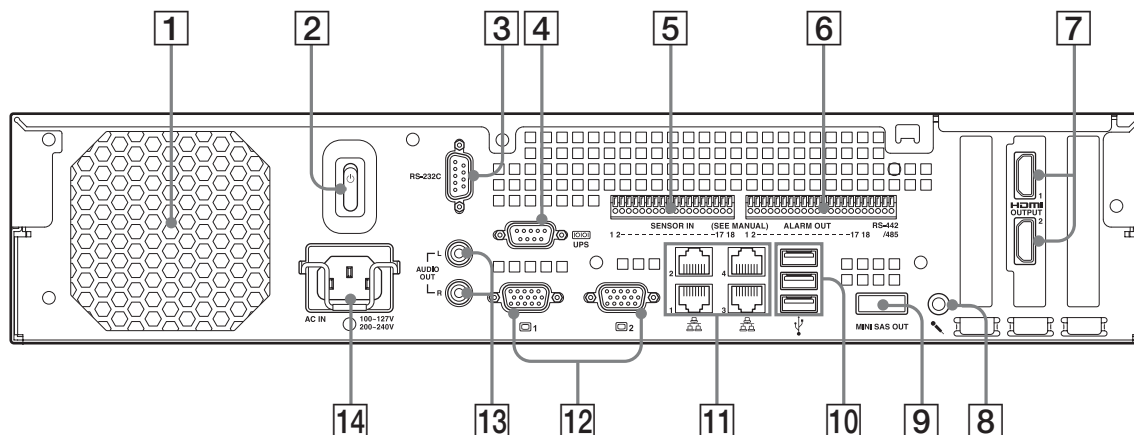
NSR-1050H
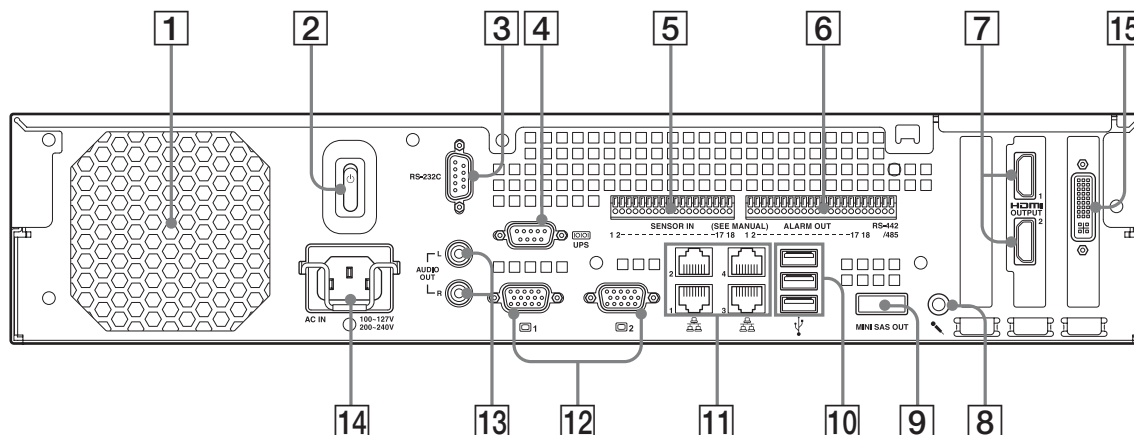
① Ventilateur

Prenez soin de ne pas obstruer la grille du ventilateur. Si la grille est bloquée, la chaleur peut s'accumuler dans l'appareil, ce qui peut entraîner un incendie ou des dégâts.

② Interrupteur d'alimentation

Placez cet interrupteur dans la position ⏻ pour mettre l'appareil sous tension.

③ Connecteur RS-232C

Utilisez ce connecteur pour contrôler les caméras analogiques.

Ce connecteur ne peut être utilisé en même temps que le connecteur RS-422/485 (les quatre broches plus à droite sur le ⑥ connecteur de sortie d'alarme).

④ Connecteur UPS (RS-232C)

Utilisez ce connecteur pour raccorder la ligne de contrôle d'alimentation sans coupure (UPS).

5 **Connecteur d'entrée de capteur**

Utilisez ce connecteur pour raccorder les lignes d'entrée du capteur.

Pour les détails et schémas de connexion des entrées de capteur, voir « Port d'E/S » (page 131).

6 **Connecteur de sortie d'alarme**

Utilisez ce connecteur pour raccorder les lignes de sortie d'alarme.

Pour plus de détails et un schéma de connexion de la sortie d'alarme, voir « Port d'E/S » (page 131).

7 **Connecteurs de moniteur HDMI (1 et 2)**

Utilisez ces connecteurs pour raccorder des moniteurs qui prennent en charge l'entrée HDMI.

Il n'est pas possible d'utiliser en même temps le connecteur de moniteur HDMI 1 et 12 le connecteur de moniteur 1 (et le connecteur de moniteur 1 à l'avant de l'appareil), et il n'est pas possible d'utiliser en même temps le connecteur de moniteur HDMI 2 et 12 le connecteur de moniteur 2.

8 **Connecteur d'entrée audio**

Utilisez ce connecteur pour recevoir le son d'un dispositif audio, comme un microphone.

Les microphones alimentés enfichables sont pris en charge.

9 **Connecteur de sortie mini-SAS**

Utilisez ce connecteur pour raccorder le câble min-SAS pour la connexion d'un NSRE-S200.

Le NSRE-S200 est une unité optionnelle de stockage d'extension.

10 **Connecteur USB**

Utilisez ce connecteur pour raccorder un clavier, une souris ou une mémoire flash USB à l'unité NSR.

11 **Connecteurs LAN (1 à 4)**

Utilisez ces connecteurs pour raccorder des câbles de réseau 10 Base-T, 100 Base-TX ou 1000 Base-T.

LAN1 : Caméras de réseau
LAN2 : Clients distants
LAN3 : Sert à une extension ultérieure
LAN4 : Sert à une extension ultérieure

12 **Connecteurs de moniteur (1 et 2)**

Utilisez ces connecteurs pour raccorder un moniteur.

Il n'est pas possible d'utiliser en même temps le connecteur de moniteur 1 (et le connecteur de moniteur 1 à l'avant de l'appareil) et 8 le connecteur de moniteur HDMI 1, et il n'est pas possible d'utiliser en même temps le connecteur de moniteur 2 et 8 le connecteur de moniteur HDMI 2.

13 **Connecteurs de sortie audio (L et R)**

Utilisez ces connecteurs pour émettre le son vers un dispositif audio.

14 **Connecteur d'alimentation**

Utilisez ce connecteur pour raccorder le cordon d'alimentation.

15 **Connecteur d'entrée de câble de caméra analogique**

Utilisez ce connecteur pour raccorder des caméras analogiques au moyen du câble d'entrée de caméra analogique.

Le NSR-1050H est équipé de ce connecteur en standard, mais le NSR-1200/1100 nécessite l'extension NSBK-A16 (option).

Données de référence pour l'installation

Consommation et courant d'appel

Modèle	Tension alternative d'entrée	Charge complète	Courant d'appel
NSR-1200	100 V	2,66 A	
	220 V	1,14 A	
NSR-1100	100 V	1,84 A	
	220 V	0,79 A	
NSR-1050H	100 V	1,75 A	13 A
	220 V	0,76 A	
NSRE-S200	100 V	0,79 A	
	220 V	0,34 A	

Capacité de stockage de données enregistrées

Les capacités de stockage de données enregistrées du NSR-1200/1100/1050H et du stockage d'extension optionnel sont les suivantes.

Modèle	Capacité de stockage de données enregistrées
NSR-1200	1 366 Go
NSR-1100	886 Go
NSR-1050H	443 Go
NSRE-S200	1 396 Go

* Les capacités de stockage sont approximatives et basées sur l'équation suivante pour 1 Go :
$1\ 024 \times 1\ 024 \times 1\ 024 = 1\ 073\ 740\ 000$ octets

Guide de durée d'enregistrement

Serveur	Stockage d'extension	Nombre de caméras	Codec (taille)	Nombre de jours	Débit binaire	Fréquence d'images
NSR-1050H	0 unité	8	MPEG4 (VGA)	10	512 kb/s	10,00 ips
NSR-1100	0 unité	16	MPEG4 (VGA)	10	512 kb/s	10,00 ips
NSR-1200	0 unité	16	MPEG4 (VGA)	16	512 kb/s	10,00 ips
NSR-1200	7 unités	16	MPEG4 (VGA)	60	1 024 kb/s	20,00 ips

Serveur	Stockage d'extension	Nombre de caméras	Codec (taille)	Nombre de jours	Qualité	Fréquence d'images
NSR-1050H	0 unité	4	JPEG (VGA)	4	Niveau 5	10,00 ips
NSR-1100	0 unité	4	JPEG (VGA)	10	Niveau 5	8,00 ips
NSR-1200	0 unité	16	JPEG (VGA)	30	Niveau 5	1,00 ips
NSR-1200	7 unités	16	JPEG (VGA)	30	Niveau 5	9,00 ips

Nombre de caméras

Nombre maximum de caméras

Modèle	Nombre maximum de caméras
NSR-1200	64
NSR-1100	32
NSR-1050H	20

Nombre maximum de caméras analogiques (compris dans le nombre total de caméras)

Modèle	Nombre maximum de caméras analogiques
NSR-1200	16 (avec le NSBK-A16 en option)
NSR-1100	16 (avec le NSBK-A16 en option)
NSR-1050H	16

Nombre maximum de caméras mégapixel (compris dans le nombre total de caméras)

Modèle	Nombre maximum de caméras
NSR-1200	8
NSR-1100	4
NSR-1050H	4

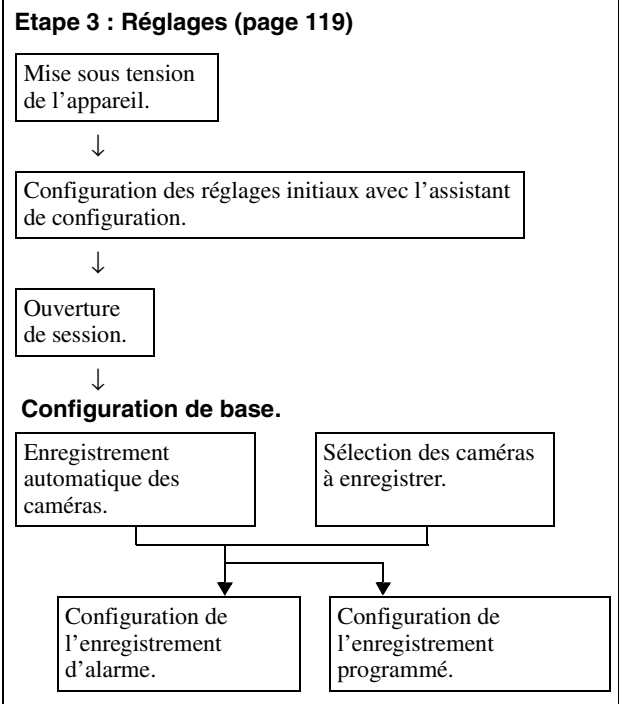Exemple) NSR-1050H (nombre maximum de caméras : 20)
Caméras IP :   12
Caméras IP (mégapixel) : 4
Caméras analogiques :   4

Etapes de préparation

Etape 1 : Installation (page 111)

↓

Etape 2 : Connexions (page 115)
Raccordez chaque dispositif à l'appareil.

↓

Etape 3 : Réglages (page 119)

Mise sous tension de l'appareil.

↓

Configuration des réglages initiaux avec l'assistant de configuration.

↓

Ouverture de session.

↓

Configuration de base.

Enregistrement automatique des caméras.

Sélection des caméras à enregistrer.

Configuration de l'enregistrement d'alarme.

Configuration de l'enregistrement programmé.

↓

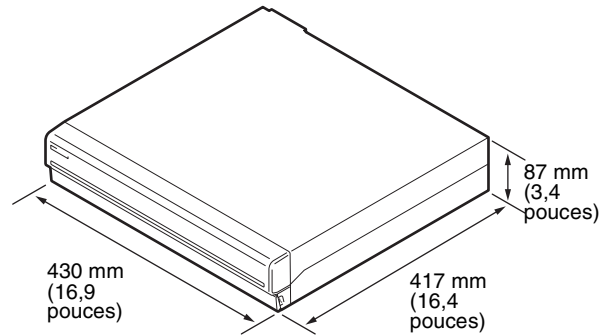Etape 4 : Vérification d'opérations (page 127)

↓

Si la configuration avancée est nécessaire
Consultez le guide de l'utilisateur (PDF).

Etape 1 : Installation

Avant la configuration, veillez à ce que l'emplacement d'installation soit assez spacieux et fort pour supporter l'appareil.
Le NSR-1200 pèse environ 13,5 kg (29,8 livres), le NSR-1100 pèse environ 12 kg (26,7 livres) et le NSR-1050H pèse environ 11,5 kg (25,4 livres). Les dimensions de l'appareil sont les suivantes.

87 mm (3,4 pouces)

430 mm (16,9 pouces)

417 mm (16,4 pouces)

Dessus

Dessus

417 mm (16,4 pouces)

430 mm (16,9 pouces)

Quand le boîtier avant est fermé

417 mm (16,4 pouces)

40 mm (1,6 pouces)   377 mm (14,8 pouces)
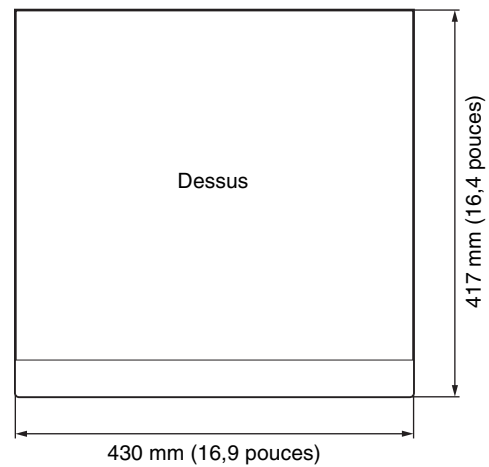
Quand le boîtier avant est ouvert

Vous pouvez installer l'appareil dans un rack à l'aide du kit optionnel de mise en rack.

Installation sans châssis

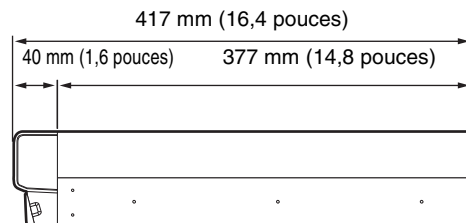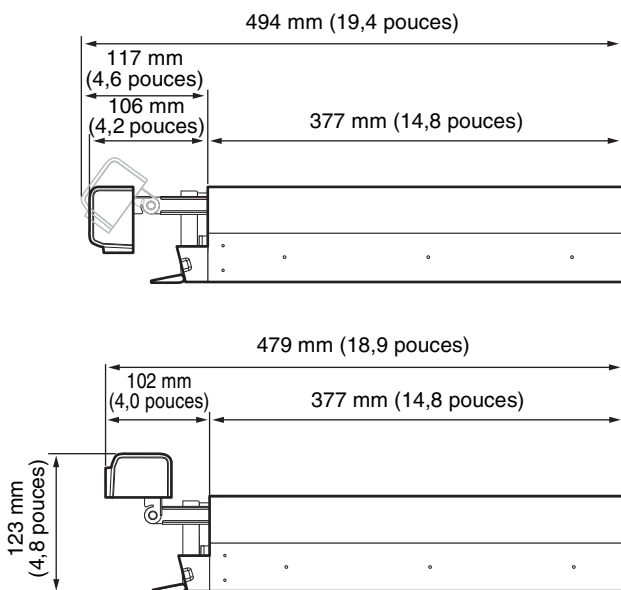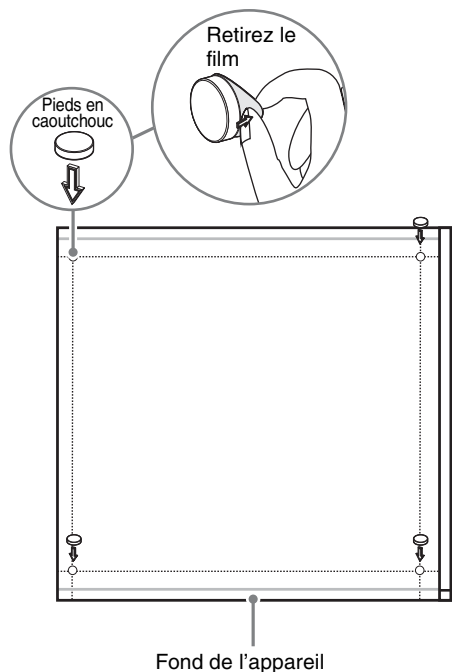Fixez les pieds en caoutchouc fournis sur l'enregistreur. Placez l'enregistreur verticalement pour que la surface du fond soit visible. Collez alors les surfaces adhésives des pieds en caoutchouc sur le fond de l'enregistreur comme illustré ci-dessous.

Installation de montage du châssis

Installez le NSR sur un châssis à l'aide du kit de montage en châssis en option (vendu séparément).

Avertissement

- N'utilisez pas un kit de montage en châssis autre que le kit de montage en option (vendu séparément) pour le NSR, cela pourrait s'avérer dangereux et provoquer un incendie, un choc ou une blessure.
- Si vous montez le NSR sur un châssis, assurez-vous de ne poser aucun objet lourd dessus.
- Avant de monter le NSR sur un châssis, nous recommandons que vous marquiez sa position prévue sur le châssis avec un feutre. Monter le NSR sur un châssis autrement qu'horizontalement pourrait provoquer des dysfonctionnements.
- Pour commander un kit de montage en châssis, contactez votre détaillant.

Sortir les rails intérieurs

Sortez les rails intérieurs des assemblages de rails.

1 Sortez le rail intérieur de l'un des assemblages de rails aussi loin que vous le pouvez.
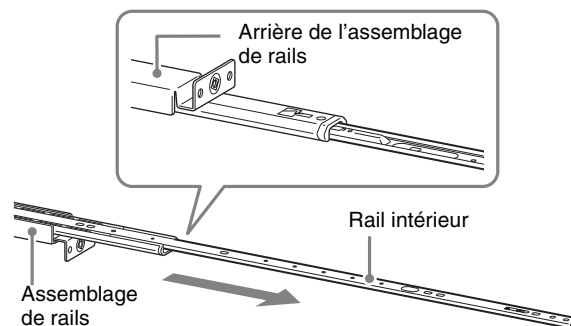
2 Retournez l'assemblage de rails. Après avoir repoussé l'onglet vert pour libérer le verrou, tirez le rail intérieur jusqu'au bout.

3 Répétez la même procédure avec l'autre assemblage de rails pour sortir son rail intérieur.

Le rail intérieur sera installé sur le NSR, tandis que l'assemblage de rails sera installé sur le châssis.
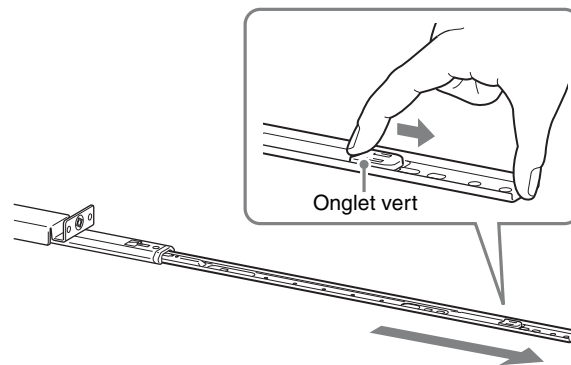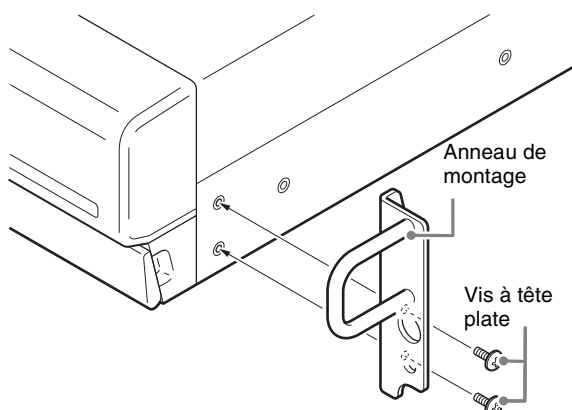
Préparation du NSR

Utilisez les attaches et les vis fournies pour installer le rail intérieur sur le NSR.

1 Utilisez les vis à tête plate fournies pour attacher l'anneau de montage sur l'avant du panneau latéral.

Anneau de montage

Vis à tête plate

2 Utilisez le reste des vis à tête ronde fournies pour installer les rails sur le NSR, comme illustré ci-dessous.

Onglet vert

Rail

Onglet vert

Vis à tête ronde
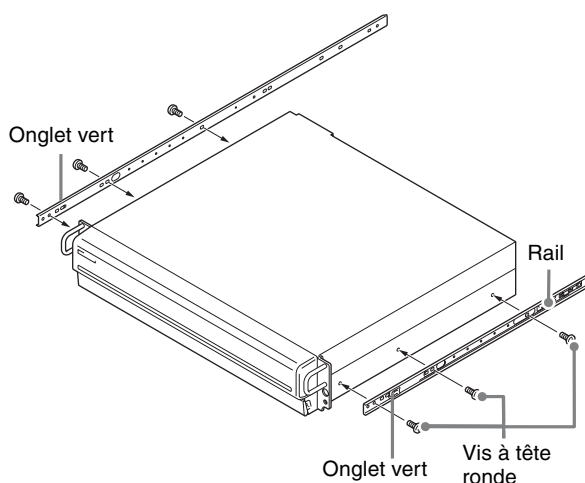
Utiliser d'autres vis que celles fournies peut endommager l'appareil. Veillez à utiliser les vis fournies pour installer les rails.

Préparation du châssis

Installez les rails sur le châssis.

1 Déterminez l'endroit où vous voulez installer les rails sur le châssis.
Nous recommandons le marquage de cette position avec un marqueur ou un feutre.

Des rails installés à différentes hauteurs pourrait provoquer des dysfonctionnements du NSR.

2 Installez les rails sur le châssis.
(1) Ajustez la longueur des rails pour qu'elle corresponde à la longueur de votre châssis.
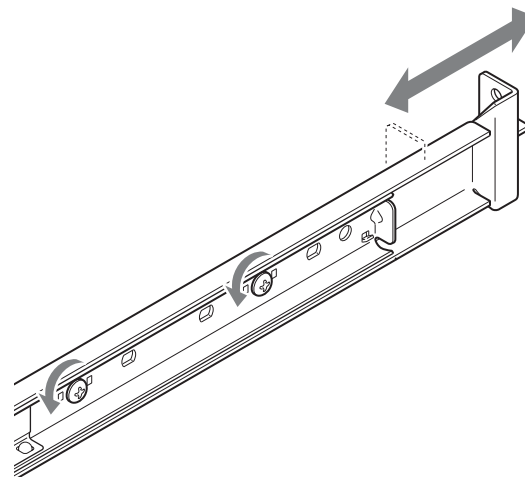
(2) Utilisez les vis à tête bombée et les rondelles fournies pour fixer les deux extrémités des rails au châssis.

Vis à tête bombée

Rondelles
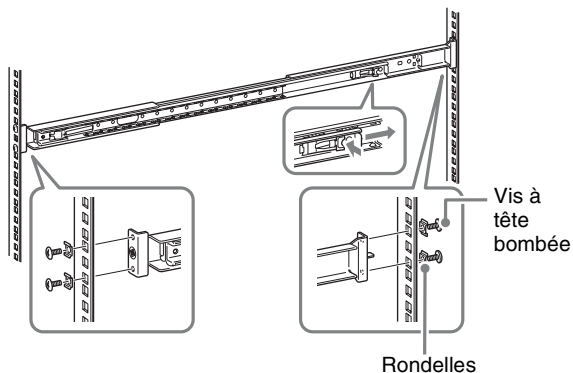
Montage du NSR sur le châssis

Insérez le NSR dans le châssis, puis fixez-le.

Il faut au moins deux personnes pour manipuler l'appareil et ainsi éviter les blessures.

1 Sortez les rails coulissants des assemblages de rails.
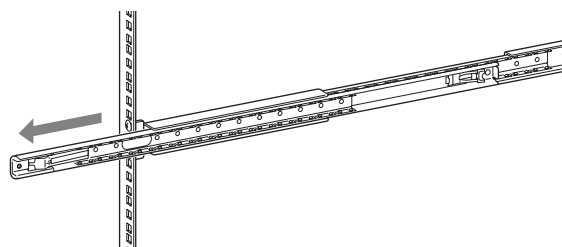
2 Soulevez le NSR, introduisez le rail intérieur dans les rainures du rail coulissant (blanc), puis faites glisser l'assemblage jusqu'à ce qu'il s'arrête.

Rail
intérieur
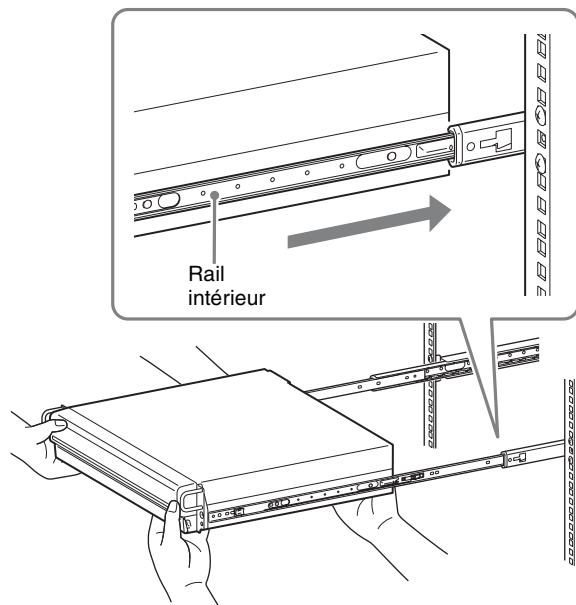
3 Tout en poussant l'onglet vert vers l'intérieur pour désactiver le verrou, faites glisser le NSR aussi loin qu'il peut aller.

Onglet vert
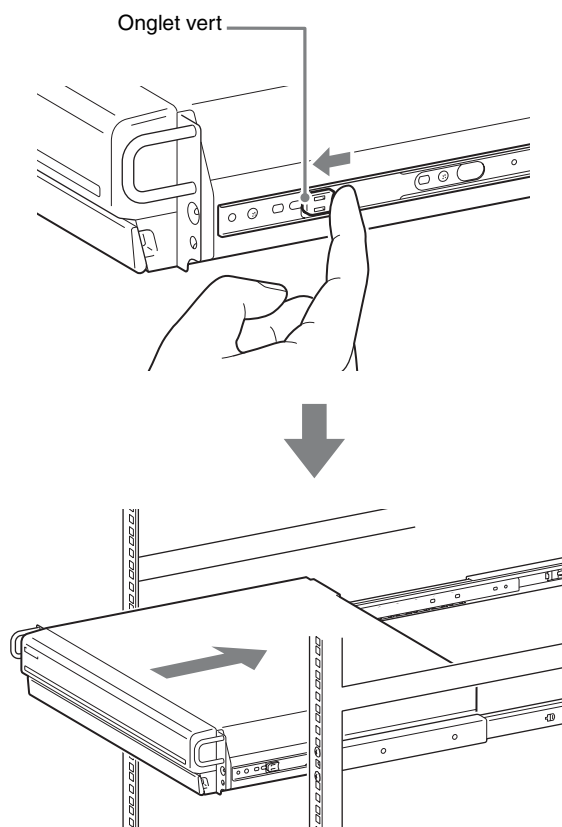
4 Utilisez les vis à tête bombée et les rondelles fournies pour fixer le NSR au châssis.

Vis à tête
ronde
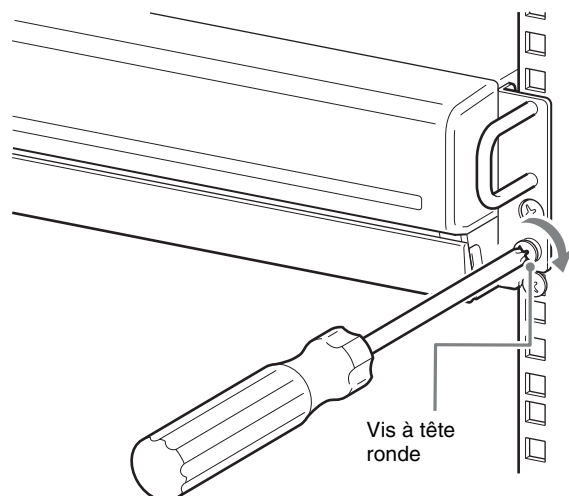
Installation des accessoires en option

Au sujet de l'installation de NSRE-S200, veuillez faire référence au Manuel d'installation qui est attaché à NSRE-S200. Pour plus de détails sur les extensions NSBK-A16 optionnelles, contactez votre revendeur Sony.

Etape 2 : Connexions

Raccordez chaque dispositif à l'appareil.

Connexion d'un moniteur

Lors de la connexion d'un moniteur, raccordez-le au connecteur de moniteur RVB 1 ou au connecteur de moniteur HDMI 1.
Lors de la connexion d'un second moniteur, raccordez-le au connecteur de moniteur RVB 2 ou au connecteur de moniteur HDMI 2.
Pour les détails, voir « Exemples de connexion de moniteur » (page 128).

Exemple) Lors du raccordement aux connecteurs de moniteur arrière

Moniteur 1

Connecteur de moniteur 1

Moniteur 1 — Moniteur 2

Connecteur de — Connecteur de
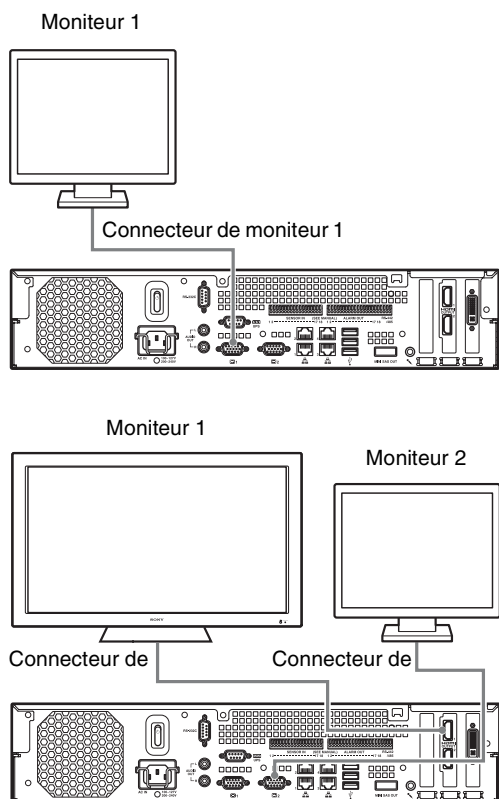
Utilisation recommandée de connecteur pendant le fonctionnement de l'appareil

Moniteur		Connecteurs à utiliser			
		Connecteur de moniteur HDMI 1	Connecteur de moniteur HDMI 2	Connecteur de moniteur RVB analogique 1	Connecteur de moniteur RVB analogique 2
Un moniteur	Moniteur HDMI	○	–	–	–
	Moniteur RVB analogique	–	–	○	–
Deux moniteurs	Moniteur HDMI × 2	○	○	–	–
	Moniteur RVB analogique × 2	–	–	○	○
	Moniteur HDMI et moniteur RVB analogique	○	–	–	○
		–	○	○	–

Remarques

- Il y a trois connecteurs de moniteurs appelés « 1 » (RVB analogique ×2 ; HDMI ×1) et deux connecteurs de moniteurs appelés « 2 » (RVB analogique ×1 ; HDMI ×1), mais il n'est possible d'en utiliser qu'un seul à la fois (1 et 2).
- Ne mettez pas l'appareil sous tension lorsque les moniteurs sont raccordés au connecteur de moniteur RVB 1 à l'avant et à l'arrière de l'appareil.
- Si vous utilisez l'appareil avec un seul moniteur RVB analogique, ne raccordez pas le moniteur au connecteur de moniteur RVB analogique 1 à l'avant de l'appareil lorsque celui-ci est sous tension.
- Lors du raccordement de deux moniteurs RVB analogiques, n'utilisez pas les connecteurs de moniteur HDMI.
- Lors de l'utilisation de moniteurs HDMI, veillez bien à raccorder le moniteur HDMI et à le mettre sous tension avant l'appareil.
- Respectez les restrictions suivantes lors de l'utilisation du connecteur de moniteur RVB analogique 1 à l'avant de l'appareil.
  - Ne raccordez pas de moniteur au connecteur de moniteur HDMI 1.
  - N'effectuez pas de raccordement simultané du connecteur de moniteur RVB analogique à l'avant et à l'arrière de l'appareil quand celui-ci est sous tension. Si les deux connecteurs sont utilisés, les moniteurs ne seront pas reconnus.
- Lorsque les moniteurs sont raccordés via un dispositif de surveillance, les images risquent de ne pas s'afficher. Nous vous recommandons de raccorder les moniteurs directement à l'appareil.

Connexion du clavier, de la souris et de la télécommande

Raccordez les dispositifs aux connecteurs USB à l'avant et à l'arrière de l'appareil.

Exemple) Lors du raccordement aux connecteurs USB à l'arrière

Souris

Clavier
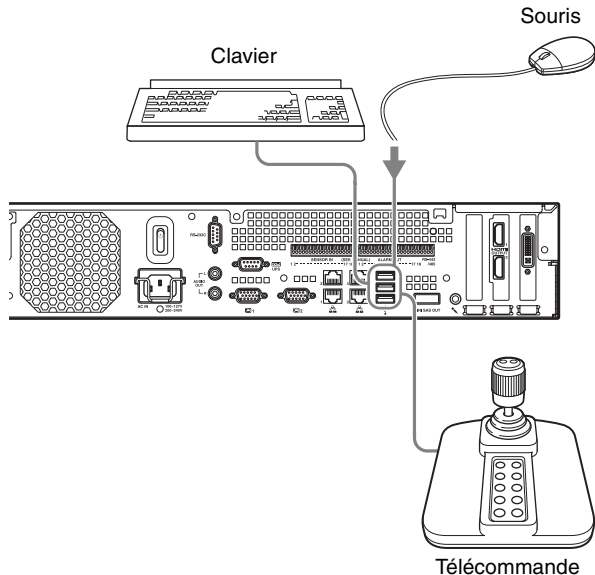
Télécommande

Remarques

- Cet appareil prend en charge les télécommandes USB IP Desktop de CH Products. Les autres télécommandes ne sont pas prises en charge.
- Si vous utilisez des dispositifs USB, veuillez d'abord prendre connaissance des « Précautions pour l'utilisation de dispositifs USB » (page 103) dans la section « 'Précautions d'utilisation ».

Connexion du cordon d'alimentation

Branchez le cordon d'alimentation sur le connecteur d'alimentation.
Fixez la pince de sécurité pour éviter que le cordon ne se débranche.
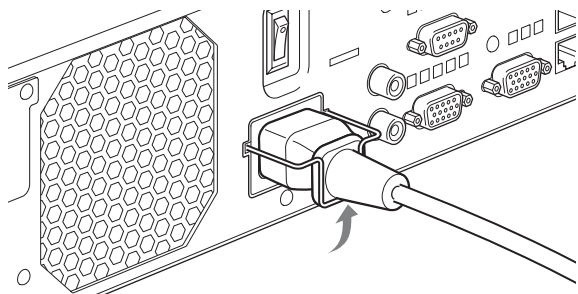

Attention

- Veillez à bien consulter les « Importantes informations concernant l'installation » (page 102)

avant d'installer l'appareil. Si vous utilisez l'appareil en combinaison avec plusieurs unités NSR ou un NSRE-S200 optionnel, assurez-vous que l'alimentation est suffisante.
- Pour les détails sur la consommation et le courant d'appel du NSR-1200/1100/1050H et du NSRE-S200, consultez « Données de référence pour l'installation » (page 110).

Connexion au réseau

Effectuez la connexion au réseau de la manière suivante.

Client distant
Raccordez le connecteur LAN au même réseau que le PC Windows utilisé comme client distant.

RealShot Manager Advanced Logiciel client

Interrupteur de réseau

PC Windows

Connecteur LAN 2

Connecteur LAN 1

Interrupteur de réseau

Connecteurs LAN 3 et 4 (utilisés pour une extension ultérieure)

Caméras de réseau
Raccordez le connecteur LAN 1 au même réseau que les caméras de réseau.

Connexions aux clients distants

Si un client distant est nécessaire, vous pouvez utiliser le logiciel client de RealShot Manager Advanced fourni avec cet appareil.

- Utilisez la version de RealShot Manager Advanced fournie avec cet appareil. Pour les détails sur le téléchargement du programme d'installation de RealShot Manager Advanced, voir « Téléchargement de fichiers stockés sur le NSR » (page 106). Vous pouvez aussi télécharger le programme d'installation de la dernière version de RealShot Manager Advanced à l'adresse suivante.
http://www.sony.co.jp/net/Products/RSMAd/license_form.html
Pour plus de détails sur l'installation et la connexion au NSR, consultez le guide d'installation de RealShot Manager Advanced (PDF).
- Le logiciel client RealShot Manager Advanced fonctionne sur les ordinateurs Windows. Pour les détails sur les caractéristiques de système requises, consultez les notes de mise à jour inclues dans

l'archive du logiciel client de RealShot Manager Advanced.

- Si vous utilisez RealShot Manager Advanced comme contrôleur distant pour le NSR, sélectionnez [Client] pendant l'installation de RealShot Manager Advanced.
- Lors de la connexion au réseau de la zone d'utilisateur, utilisez le connecteur LAN 2.
- Pour plus de détails sur les réglages du NSR lors de l'utilisation du logiciel client RealShot Manager Advanced, consultez « Configurations pour l'utilisation du logiciel client de RealShot Manager Advanced » (page 126).

Connecteurs LAN 3 et 4 (utilisés pour une extension ultérieure)

Comme les connecteurs LAN 3 et 4 sont des canaux liés pour la redondance de réseau, une seule adresse IP peut être attribuée aux deux connecteurs. Veillez bien à raccorder les connecteurs LAN 3 et 4 au même interrupteur de réseau.

Lorsque les deux connecteurs LAN 3 et 4 sont connectés à l'interrupteur de réseau, la communication de données n'est activée que pour l'un des deux connecteurs. Le réseau actif est déterminé au démarrage, et vous ne pouvez pas le spécifier. Si le réseau actif ne fonctionne pas et la communication de données est désactivée, elle reprend au moyen de l'autre réseau.

Remarques

- Les adresses IP par défaut sont les suivantes pour cet appareil.
  - Connecteur LAN 1 : 192.168.0.1
  - Connecteur LAN 2 : 192.168.1.1
  - Connecteur LAN 3 : 192.168.2.1
  - Connecteur LAN 4 : 192.168.2.1
- Si vous souhaitez modifier les adresses IP par défaut, consultez le guide de l'utilisateur (PDF).

Connexion d'une caméra analogique

Raccordez la caméra analogique à l'aide du câble d'entrée de caméra analogique fourni.
Pour contrôler les opérations de panoramique, d'inclinaison et de zoom, raccordez un câble de contrôle de caméra au connecteur RS-232C ou au connecteur RS-422/485 (les quatre broches les plus à droite sur le connecteur de sortie d'alarme). (Vous ne pouvez utiliser qu'un seul de ces connecteurs (RS-232C, RS-422, RS-485) à la fois.))

Connecteur d'entrée de câble de caméra analogique

Câble d'entrée de caméra analogique

Connecteur d'entrée vidéo (noir)

Caméra analogique

Dispositif audio

Connecteur d'entrée audio (blanc)

Exemples de connexion

Caméra analogique PTZ (Contrôle RS-485)

Caméra analogique PTZ (Contrôle RS-422)

Caméra analogique PTZ (Contrôle RS-232)
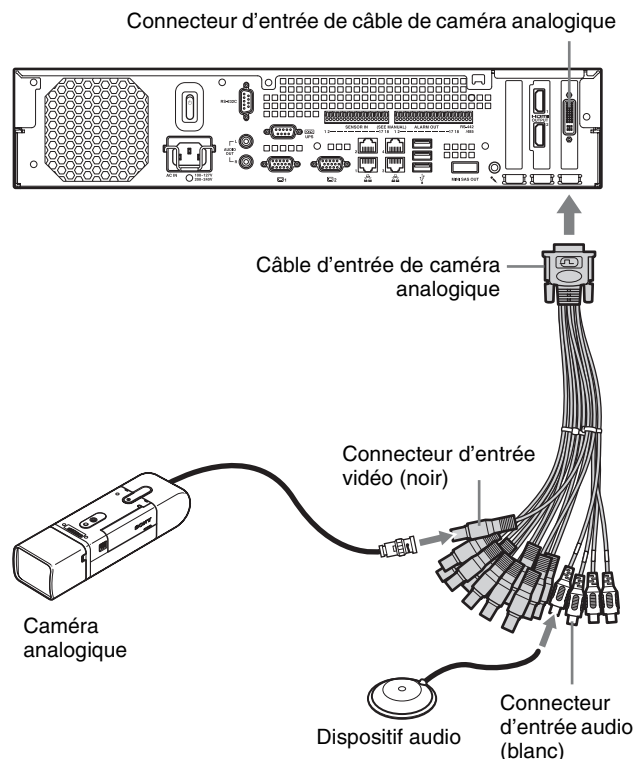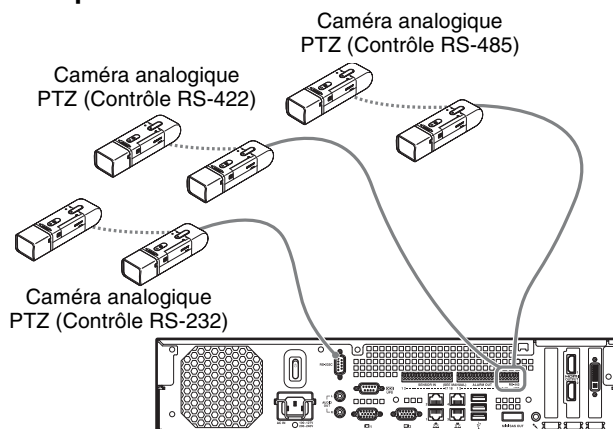
Attention

Si vous utilisez des caméras et des unités d'alimentation qui superposent la tension CC sur le câble coaxial vidéo, faites bien attention aux connexions du câble coaxial. Si le câble de caméra sur lequel la tension CC est superposée est raccordé au NSR, un dysfonctionnement peut se produire.

Caméra analogiques

Câble coaxial sur lequel la tension CC est superposée

Veillez à ne pas connecter le câble coaxial des caméras analogiques à l'unité NSR.
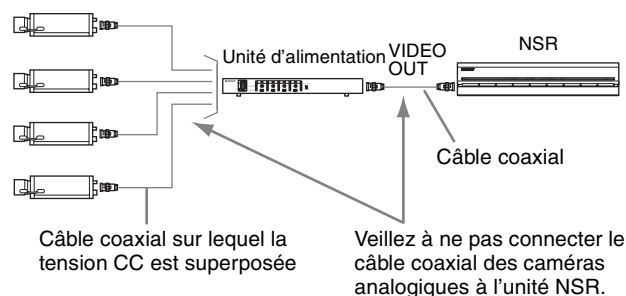
Remarques

- Le NSR-1050H est équipé du connecteur d'entrée de câble de caméra analogique en standard, mais le NSR-1200/1100 nécessite l'extension NSBK-A16 (option).
- Si vous utilisez les opérations de panoramique, d'inclinaison et de zoom, vous devez définir un seul numéro de contrôle pour chaque caméra analogique à l'aide des commutateurs DIP ou des menus. Pour les détails sur la configuration de ces numéros de contrôle, consultez le mode d'emploi de la caméra analogique.
- Pour les détails sur l'attribution de broches pour le connecteur RS-422/485, voir « Distribution de contacts du port d'E/S » (page 131).

Connexion d'une unité NSRE-S200

Utilisez le câble mini-SAS fourni avec le NSRE-S200 optionnel pour connecter le NSR-1200/1100/1050H au NSRE-S200 comme suit.
Vous pouvez raccorder jusqu'à sept unités NSRE-S200 au NSR-1200/1100/1050H.
Pour les détails sur les configurations de connexion, voir « Exemple de connexion du NSRE-S200 » (page 129).

Remarque

Veillez bien à connecter le NSR-1200/1100/1050H et le NSRE-S200 avant la mise sous tension.

Connexion du NSR-1200/1100/1050H au NSRE-S200

Câble mini-SAS

Connecteur de sortie mini-SAS

Connecteur d'entrée mini-SAS
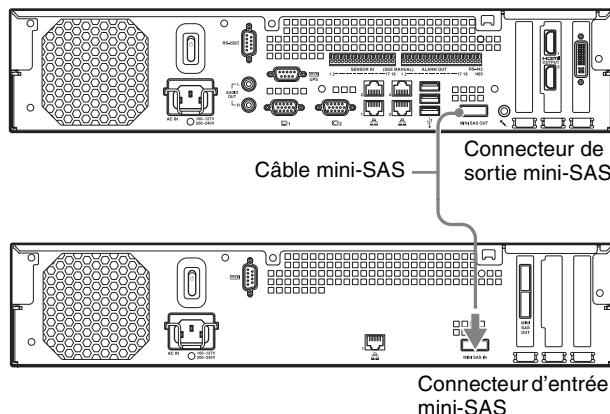
Connexion de deux unités NSRE-S200

Connecteur de sortie mini-SAS

Câble mini-SAS

Connecteur d'entrée mini-SAS
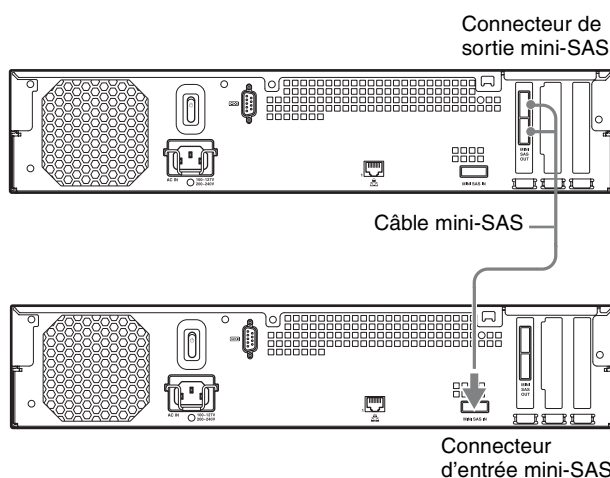
Remarque

Les connecteurs de sortie mini-SAS du haut et du bas sur le NSRE-S200 ont la même fonction.

Connexion d'autres dispositifs

Connexion d'entrées de capteur et de sorties d'alarme

Etablissez les connexions au connecteur d'entrée de capteur et au connecteur de sortie d'alarme.
Pour les détails, voir « Port d'E/S » (page 131).

Connexion d'un système d'alimentation sans coupure (UPS)

1 Connectez la source UPS à la prise de courant.

2 Raccordez le NSR au système UPS avec le cordon d'alimentation fourni.

3 Raccordez le NSR au système UPS avec le câble de série au connecteur de série à l'arrière du NSR.

Câble de série

Cordon

Vers la source

UPS
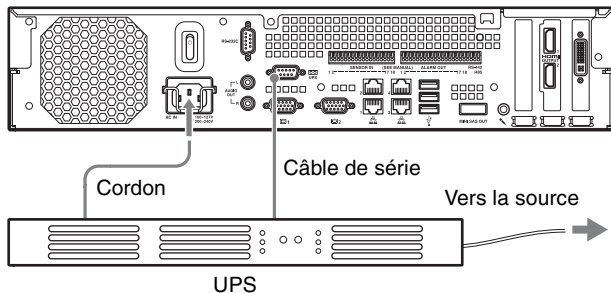
Connexion d'un dispositif de sortie audio

Raccordez le dispositif de sortie audio aux connecteurs de sortie audio (L et R).

Câble audio (L et R)
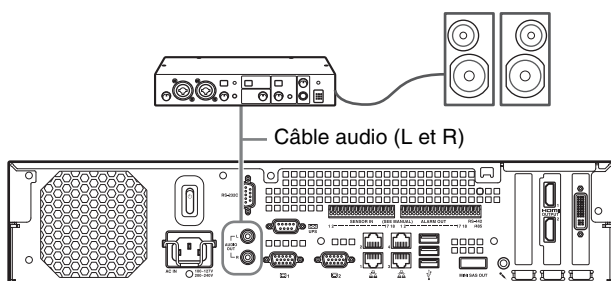
Etape 3 : Réglages

Cette section offre des informations sur la mise sous tension de l'appareil, et des explications générales sur l'enregistrement de caméras et d'autres dispositifs.

Mise sous tension de l'appareil

Lorsque vous appuyez sur l'interrupteur d'alimentation à l'avant ou à l'arrière de l'appareil, il est mis sous tension. Si une unité NSRE-S200 est raccordée, attendez sa mise sous tension avant de mettre cet appareil sous tension.

Attention

Prenez le courant d'appel en considération lors de la configuration des connexions d'alimentation des systèmes qui comprennent plusieurs unités NSR ou une unité NSRE-S200. Pour plus de détails sur le courant d'appel, voir « Données de référence pour l'installation » (page 110).

Interrupteur d'alimentation avant
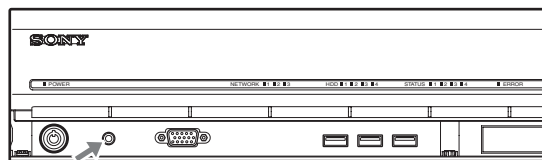
Interrupteur d'alimentation arrière
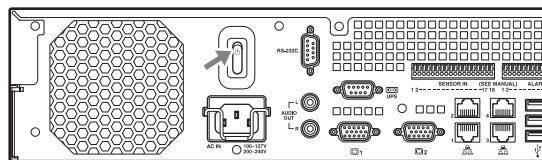
Le voyant LED d'alimentation sur le panneau avant s'allume en vert quand l'appareil est sous tension.

Lors de la première mise sous tension de l'appareil, l'assistant de configuration est automatiquement lancé. Passez à la section suivante, « Configuration des réglages initiaux avec l'assistant de configuration ».

Remarques

• Le ventilateur peut émettre un bruit fort pendant les 2 secondes qui suivent la mise sous tension de l'appareil. Ceci ne signale pas un dysfonctionnement.
• Si l'appareil a été mis hors tension à l'aide d'opérations de système, appuyez sur le bouton d'alimentation du panneau avant ou sur l'interrupteur

d'alimentation à l'arrière pour mettre l'appareil sous tension.
- Si une mise hors tension forcée a été effectuée, l'appareil peut prendre plus longtemps à redémarrer.

Mise hors tension de l'appareil

Après l'ouverture de session NSR, cliquez sur [⏻/👤] en haut de l'écran principal, et sélectionnez [Éteindre] dans le menu qui s'affiche.

Remarque

Normalement, l'appareil se met hors tension après quelques minutes. Si l'appareil ne se met pas hors tension après quelques minutes, forcez la mise hors tension en plaçant l'interrupteur d'alimentation à l'arrière de l'appareil sur la position ⏻ pendant au moins 5 secondes.

Configuration des réglages initiaux avec l'assistant de configuration

Cette section explique d'une manière générale les opérations de l'assistant de configuration. Pour plus de détails sur les réglages, consultez « Modification des réglages de système » dans le guide de l'utilisateur (PDF).

Lors de la première mise sous tension de l'appareil, l'assistant de configuration est automatiquement lancé. Vous pouvez configurer les mêmes réglages après en accédant à l'écran d'ouverture de session, le menu Administration puis le menu Configuration.
Pour les détails, consultez « Accès au menu Configuration depuis l'écran d'ouverture de session » (page 123).

Attention

Certains éléments qui apparaissent à l'écran en anglais sont écrit en français dans ce manuel.

Lors de la mise sous tension de l'appareil, l'assistant de configuration est lancé après l'affichage suivant.

↓
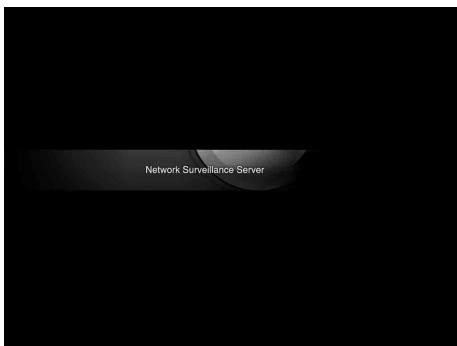
Cliquez sur [Next].

↓

Lisez l'accord de licence d'utilisateur, cliquez sur [Accept], puis sur [Next].

↓
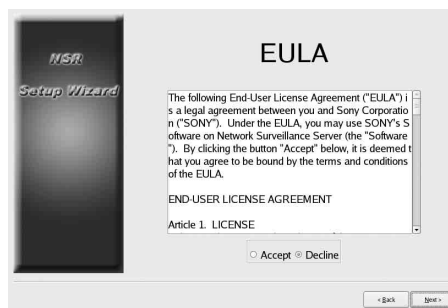
Sélectionnez une langue d'affichage, et cliquez sur [Next].

↓

Sélectionnez une langue de clavier, et cliquez sur [Suivant].

↓
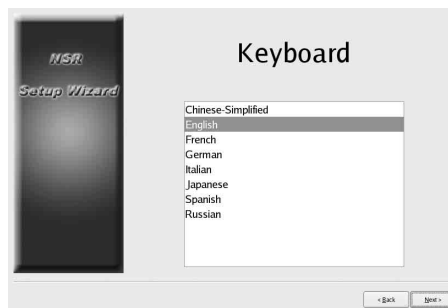
Sélectionnez un fuseau horaire, et cliquez sur [Suivant].

Time Zone

(GMT-11:00) Midway Island, Samoa
(GMT-10:00) Hawaii
(GMT-09:00) Alaska
(GMT-08:00) Pacific Time (US & Canada); Tijua
(GMT-07:00) Arizona
(GMT-07:00) Chihuahua, La Paz, Mazatlan
(GMT-07:00) Mountain Time (US & Canada)
(GMT-06:00) Central America (Guatemala)
(GMT-06:00) Central Time (US & Canada)'
(GMT-06:00) Guadalajara, Mexico City, Monter

↓

Réglez la date et l'heure, et cliquez sur [Suivant].
- Lorsque vous cochez la case [Enable NTP Server], l'appareil fonctionne comme serveur NTP pour la synchronisation de la date et de l'heure.
- Lorsque vous cochez la case [Synchronize with NTP Server], vous pouvez synchroniser l'heure et la date avec un serveur NTP différent.
- Si la date et l'heure ne peuvent être synchronisées avec le serveur Windows comme serveur NTP, vous pouvez cocher la case [Synchronize with Windows Server] pour forcer la synchronisation avec le serveur NTP Windows.

Date and Time

Year   Month   Day
2008   9   30
Hour   Minute
21   5

Date Format
Year/Month/Day

☐ Enable NTP Server
☐ Synchronize with NTP Server
  Address   192.168.1.150
      ☐ Synchronize with Windows Server

↓
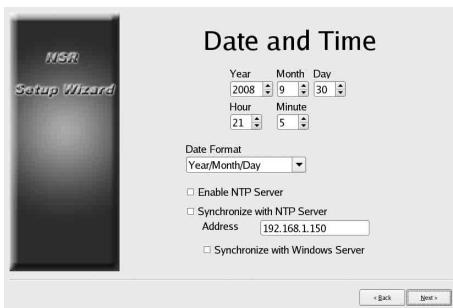
Réglez l'adresse IP pour chaque serveur, et cliquez sur [Suivant].

General Network Setting

Primary DNS
Secondary DNS
Default Gateway

↓
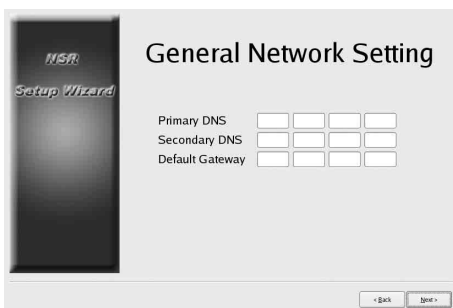
Réglez l'adresse IP pour le connecteur LAN 1, et cliquez sur [Suivant].

Network Device 1

○ DHCP ● Static

IP Address 192 168 0   1
Netmask   255 255 255 0

↓
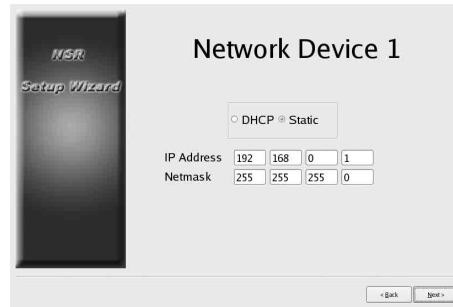
Réglez l'adresse IP pour le connecteur LAN 2, et cliquez sur [Suivant].

Network Device 2

○ DHCP ● Static

IP Address 192 168 1   1
Netmask   255 255 255 0

↓
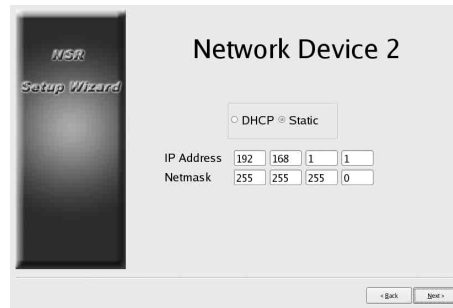
Réglez l'adresse IP pour le connecteur LAN 3, et cliquez sur [Suivant].

Network Device 3

○ DHCP ● Static

IP Address 192 168 2   1
Netmask   255 255 255 0

↓
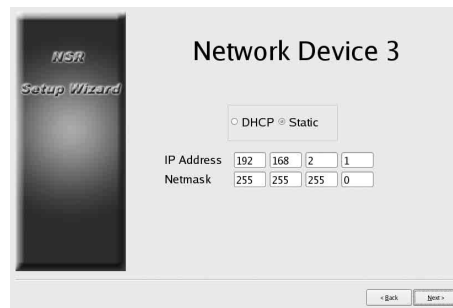
Configurez les réglages de moniteur 1, et cliquez sur [Suivant].
- Si vous sélectionnez [Auto], le type de moniteur raccordé et sa résolution sont détectés et configurés automatiquement.
  Pour les détails sur les résolutions prises en charge, voir « Exigences de système » (page 105).
- Lors de la connexion de deux moniteurs à l'appareil, cochez la case [Dual Head].

↓
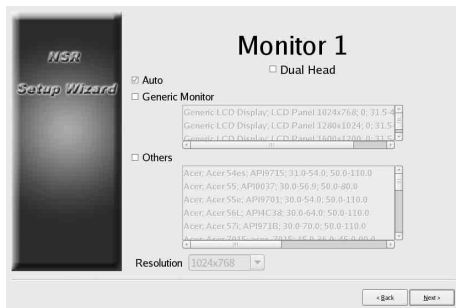
Si vous raccordez un second moniteur, configurez les réglages du moniteur 2.
Après avoir configuré les réglages du second moniteur, relancez l'appareil quand le second moniteur est connecté.

↓
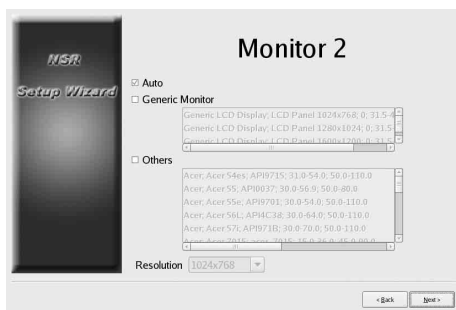
Sélectionnez le connecteur de sortie audio à utiliser, et cliquez sur [Suivant].

↓
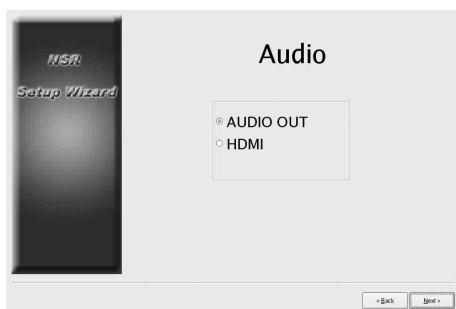
Configurez les partitions du disque dur interne, et cliquez sur [Suivant].
Définissez le nombre de partitions, et sélectionnez le pourcentage de la capacité totale à attribuer à chaque partition.

↓

Définissez le nom du serveur, et cliquez sur [Suivant].

↓
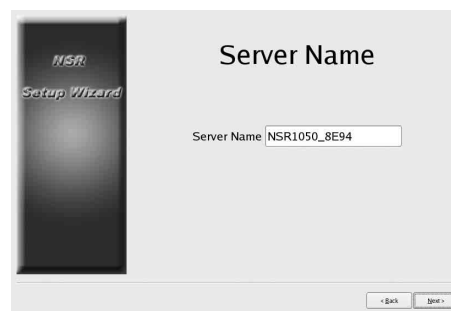
Configurez les réglages de connexion de caméra analogique, et cliquez sur [Suivant].
Sélectionnez la norme du connecteur de série auquel la caméra à contrôler sera connectée, et configurez les réglages tels que le débit en bauds et les bits de parité.
(Cet écran ne s'affiche que si un NSR-1050H ou NSBK-A16 (option) est connecté.)

↓
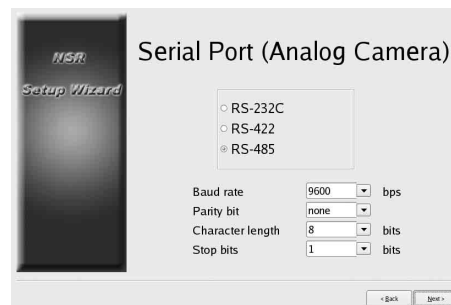
Sélectionnez le format vidéo des caméras analogiques à connecter, et cliquez sur [Suivant].
(Cet écran ne s'affiche que si un NSR-1050H ou NSBK-A16 (option) est connecté.)

↓

Vérifiez les configurations, et cliquez sur [Suivant].

↓
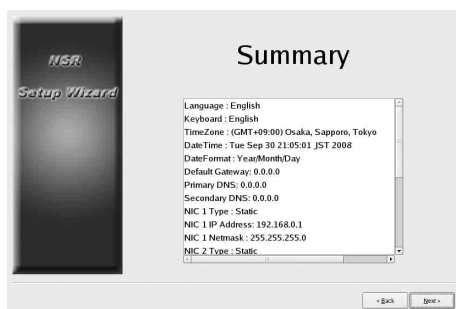
Cliquez sur [Terminer] lorsque le message de confirmation de redémarrage s'affiche.

↓
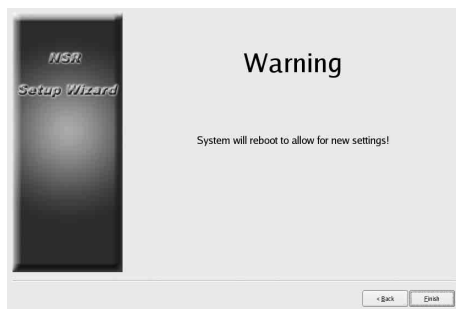
L'appareil redémarre.

↓

L'écran d'ouverture de session s'affiche.
Passez à la section suivante, « Ouverture de session ».

Accès au menu Configuration depuis l'écran d'ouverture de session

① Cliquez sur [Menu d'administration].

↓

② Cliquez sur [Menu d'installation].
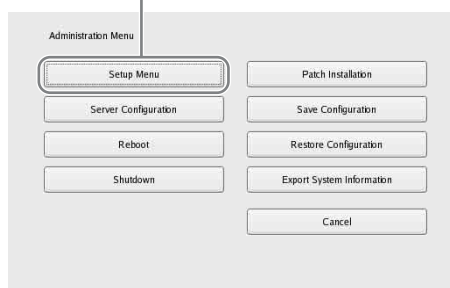
Ouverture de session

Saisissez le nom d'utilisateur et le mot de passe, et cliquez sur [Logon].
Nom d'utilisateur par défaut :admin
Mot de passe par défaut :admin

Lorsque la session est ouverte, le dialogue d'enregistrement automatique de caméras s'affiche.
Passez à la section suivante, « Configuration de base ».

Configuration de base

Cette section décrit comment enregistrer et configurer l'enregistrement d'alarme pour les dispositifs qui sont détectés automatiquement. Pour les détails sur l'enregistrement simultané de tous les dispositifs détectés automatiquement, consultez le guide des premiers pas (document séparé).

Pour enregistrer une caméra
Sélectionnez [Ouvrir fenêtre d'enreg. multi caméras], et cliquez sur [OK].

↓

Les dispositifs sur le même segment de réseau sont détectés automatiquement.

↓

Cochez les cases des caméras à enregistrer, et cliquez sur [Enregistrement].
Pour plus de détails sur les réglages, consultez « Enregistrement de dispositifs » dans le guide de l'utilisateur (PDF).

↓
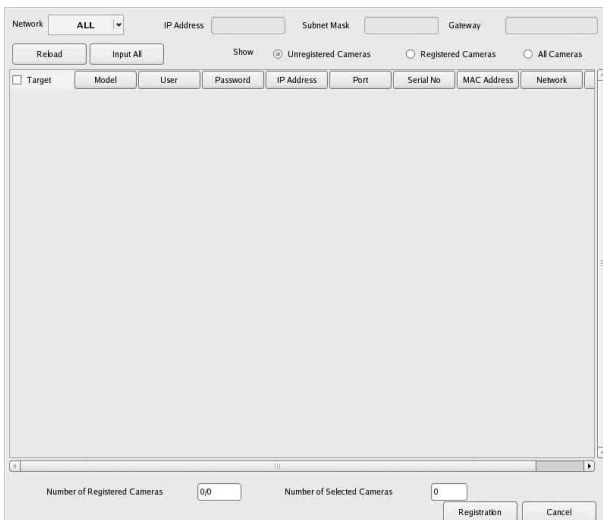
Les caméras sont enregistrées.

↓
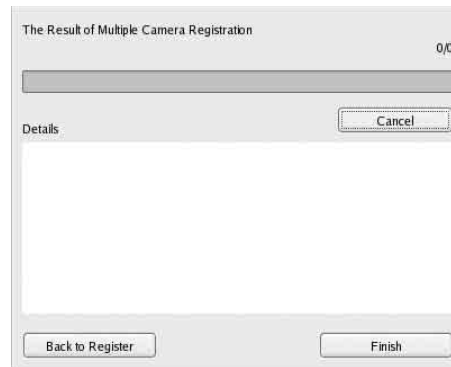
Pour configurer l'enregistrement d'alarme
Sélectionnez [Configuration automatique de l'enreg. de l'alarme], et cliquez sur [Suivant].

↓
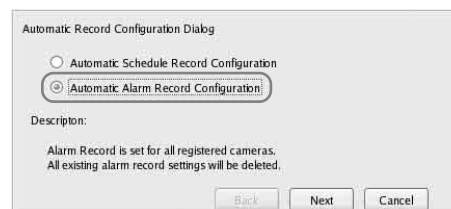
Le message de confirmation apparaît.
Cliquez sur [Suivant].

↓

Vérifiez les configurations, et cliquez sur [Terminer].

↓

L'enregistrement d'alarme commence.

Lorsque la configuration est terminée, l'écran principal s'affiche.

Après la configuration de base, les valeurs de chaque réglage seront les suivantes.

Réglage	Enregistrement programmé	Enregistrement d'alarme
Taille d'image	Taille d'image maximale prise en charge par la caméra.	
Codec	Codec qui prend en charge la taille d'image maximale. (Si elle est prise en charge par JPEG et MPEG4, MPEG4 est sélectionné.)	
Fréquence d'images	JPEG : Dépend de la durée de stockage des données enregistrées. MPEG4 : Dépend du débit binaire.	JPEG : 10 ips MPEG4 : 10 ips
Qualité	50% Niveau 3 (caméras avec 5 réglages de niveaux) Niveau 5 (caméras avec 10 réglages de niveaux)	80% Niveau 5 (caméras avec 5 réglages de niveaux) Niveau 8 (caméras avec 10 réglages de niveaux)
Débit binaire	Dépend de la durée de stockage des données enregistrées.	MPEG4 : 1,5 Mo/s
Déclencheur d'enregistrement	–	VMD (Caméra) VMD (Enregistreur) JPEG : Mode standard MPEG4 : Mode haute performance
Lieu de stockage de données	Pas de changement par rapport à la configuration existante.[1]	Pas de changement par rapport à la configuration existante.[1]
Audio	Désactivé	Désactivé
Ecrasement des données	Pas de changement par rapport à la configuration existante.	Pas de changement par rapport à la configuration existante.

Réglage	Enregistrement programmé	Enregistrement d'alarme
Nettoyage	Supprime les données qui dépassent la durée de stockage.	Pas de changement par rapport à la configuration existante.

1) Si l'utilisateur n'a pas configuré les réglages de lieu de stockage pour la caméra, la capacité de la première partition du disque dur interne de l'appareil est utilisée pour calculer les autres réglages. Si l'utilisateur a configuré les réglages de lieu de stockage, les capacités de chaque lieu sont utilisées pour calculer les autres réglages.

Attention

- Si les réglages d'enregistrement programmés et d'alarme existent déjà quand vous exécutez « Enregistrement automatique », la configuration automatique remplace les réglages précédents.
- Si les lieux de stockage de caméra sont délibérément modifiés, vous pouvez effectuer une nouvelle configuration de base pour recalculer les autres réglages. Les réglages ne sont pas recalculés automatiquement.

Réglages qui nécessitent une configuration individuelle

Une configuration supplémentaire est requise dans les cas suivants.

Réglages de lieu d'enregistrement
Avec les réglages de configuration de base, les données sont stockées dans la première partition du disque dur interne de l'appareil.
Pour les détails sur l'enregistrement de données sur une unité NSRE-S200 optionnelle ou sur d'autres partitions, consultez le guide de l'utilisateur (PDF).

Lors de la création de systèmes qui comprennent plusieurs unités NSR ou des serveurs RealShot Manager Advanced.
Lors de la configuration de plusieurs serveurs, une configuration individuelle est nécessaire. Pour plus de détails, consultez le guide de l'utilisateur (PDF).

Réglages de panoramique, d'inclinaison et de zoom pour les caméras analogiques

Configurez les réglages de panoramique, d'inclinaison et de zoom pour les caméras analogiques comme suit, depuis l'onglet [Control] de Device Configuration.
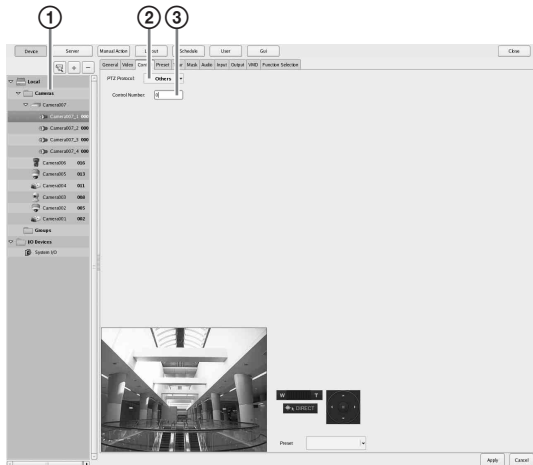
① Sélectionnez la caméra analogique.
② Sélectionnez un protocole basé sur les réglages de la caméra analogique.
③ Saisissez le numéro de contrôle configuré sur la caméra analogique sélectionnée.

Remarque

Pour configurer ces réglages, vous devez d'abord configurer le mode de transmission dans les réglages « Serial Port » de l'assistant de configuration.

Réglages audio de caméras

Avec la configuration de base, le son est désactivé. Pour plus de détails sur l'activation du son, consultez le guide de l'utilisateur (PDF).

Configurations pour l'utilisation du logiciel client de RealShot Manager Advanced

Configurez les réglages suivants sur l'unité NSR qui fonctionnera comme serveur maître. Pour plus de détails sur les réglages, consultez le guide de l'utilisateur (PDF).

1 Configurez les réglages suivants sur l'écranServer Configuration du menu Administration.
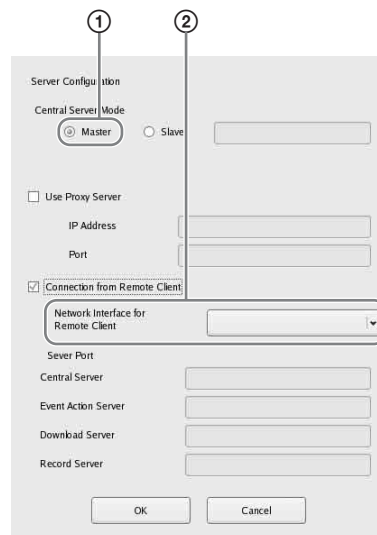
① Sélectionnez [Maître] sous [Mode de serveur central].
② Sélectionnez l'interface de réseau pour la connexion dans [Interface réseau pour Client distant] sous [Connexion depuis un client distant].

2 Créez un utilisateur sur le serveur maître. Cliquez sur ⊞ (ajouter) sur l'écran User Configuration, et créez un utilisateur.
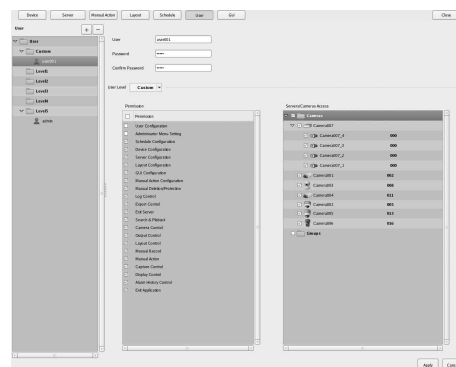
Etape 4 : Vérification d'opérations

Après la configuration de base, vérifiez que les images de caméras s'affichent sur l'écran principal et vérifiez d'autres opérations semblables.

① Changez le fond d'écran et affichez les images de caméras enregistrées.
Faites glisser-déposer une caméra depuis la fenêtre des caméras sur une fenêtre de moniteur pour afficher les images de cette caméra.

② Cliquez sur un cadre de surveillance pour l'activer (cadre bleu clair), et contrôlez les opérations de panoramique, d'inclinaison et de zoom depuis l'onglet [Contrôle] de la fenêtre Contrôle caméra.

③ Vérifiez également les occurrences d'alarme lorsque les objets passent devant la caméra.
Si l'enregistrement d'alarme a été configuré à l'aide de la configuration de base, un cadre rouge entoure le cadre de surveillance, et une mention de chaque alarme s'affiche dans l'historique au bas de l'écran.

④ Consultez le guide d'opération de la fenêtre de surveillance (document séparé) pour les détails sur l'opération de chaque fonction.

⑤ Cliquez sur [PLAYBACK] pour lire les enregistrements.
Si vous cliquez sur [PLAYBACK], les images d'un autre temps de configuration seront lues (lecture rapide).
Lorsque vous saisissez une date et une heure et cliquez sur [GO], les images enregistrées seront lues.

⑥ Cliquez sur le témoin [ERROR] dans le coin inférieur droit de l'écran pour vérifier si des erreurs se sont produites.
Comme le journal de système s'affiche lorsque vous cliquez sur le témoin [ERROR], vous pouvez vérifier si des problèmes se sont produit en observant le journal.

Pour les détails sur les opérations de l'écran principal, consultez le guide d'opération de la fenêtre de surveillance (document séparé) ou le guide de l'utilisateur (PDF).

Attention

Lorsque vous raccordez un dispositif USB à l'appareil, le témoin [ERROR] dans le coin inférieur droit de l'écran peut s'allumer. Ceci signale que l'appareil ne prend peut-être pas le dispositif USB en charge. Pour plus de détails, consultez « Précautions d'utilisation » (page 102) ou « Un dispositif externe raccordé à un connecteur USB ne fonctionne pas. » (page 133) dans la section « Dépannage ».r si l'appareil prend en charge le dispositif USB.

Lors de l'utilisation de RealShot Manager Advanced comme client distant

Effectuez la procédure suivante pour vérifier les opérations.

1 Ouvrez une session RealShot Manager Advanced.
- Déterminez le serveur pendant l'ouverture de session. Définissez le port « 8082 » comme adresse IP de serveur.
- Saisissez le nom d'utilisateur et le mot de passe configurés sur l'écran Server Configuration (page 126) pour [Nom d'utilisateur] et [Mot de passe].
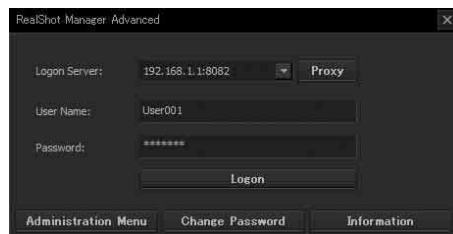
2 Sur l'écran principal de RealShot Manager Advanced, attribuez les images aux cadres de surveillance depuis les caméras raccordées à l'appareil.
Il y a deux méthodes pour l'attribution de caméras.
- Faites glisser-déposer une caméra raccordée à l'appareil depuis la fenêtre des caméras sur un cadre de surveillance.
- Cliquez sur un cadre pour le sélectionner, puis double-cliquez sur une caméra dans la fenêtre de caméras.

3 Vérifiez que les images de la caméra sélectionnée à l'étape 2 s'affichent dans le cadre de surveillance.

Exemples de connexion

Exemples de connexion de moniteur

Cet appareil prend en charge plusieurs combinaisons de connexion de moniteur. Consultez les exemples de connexion suivants.

Remarque

Vous pouvez sélectionner d'émettre l'audio RCA ou l'audio HDMI dans le menu Audio de l'assistant de configuration ou du menu Configuration.

Exemple 1) Lors de la connexion de deux moniteurs HDMI
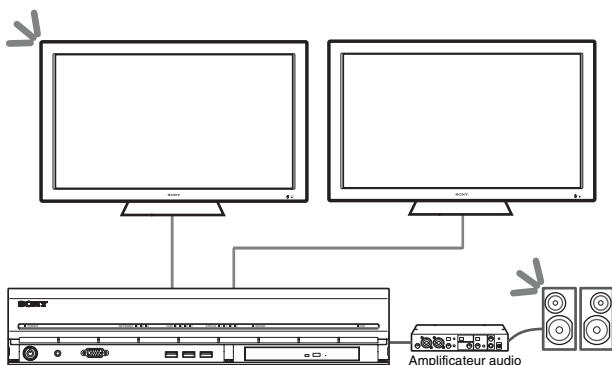
↘ : Lieux de sortie audio.

Remarque

Assurez-vous de connecter les moniteurs HDMI et de les mettre sous tension avant l'appareil.

Exemple 2) Lors de la connexion de deux moniteurs RVB analogiques

↘ : Lieux de sortie audio.

Remarques

- Ne raccordez pas les moniteurs aux connecteurs de moniteur HDMI 1 et 2.
- Ne raccordez pas un moniteur au connecteur de moniteur 1 à l'avant de l'appareil quand celui-ci est sous tension.

Exemple 3) Lors de la connexion d'un moniteur HDMI et d'un moniteur RVB analogique (moniteur HDMI utilisé pour les opérations)
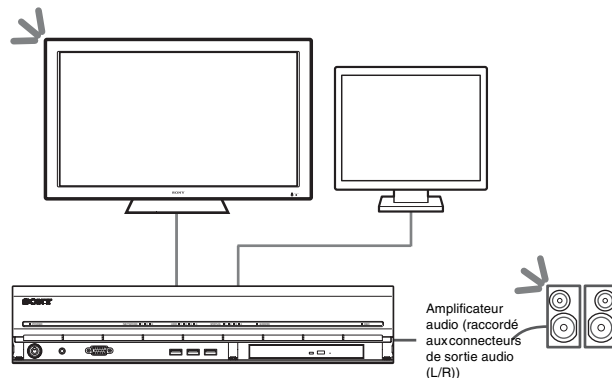
Amplificateur audio (raccordé aux connecteurs de sortie audio (L/R))

↘ : Lieux de sortie audio.

Remarques

- Ne raccordez pas de moniteur au connecteur de moniteur HDMI 2.
- Lors de l'utilisation de moniteurs HDMI, veillez bien à raccorder le moniteur HDMI et à le mettre sous tension avant l'appareil.

Exemple 4) Lors de la connexion d'un moniteur HDMI et d'un moniteur RVB analogique (moniteur RVB analogique utilisé pour les opérations)
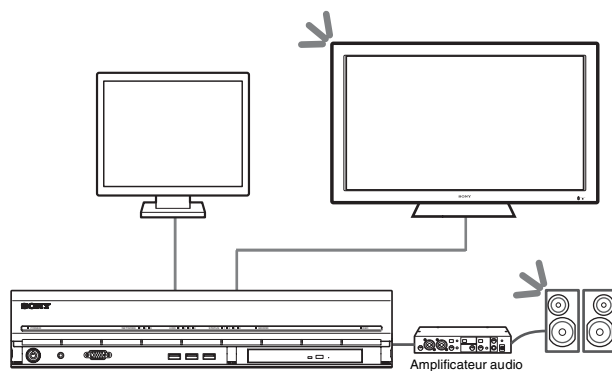
Amplificateur audio

↘ : Lieux de sortie audio.

Remarques

- Ne raccordez pas de moniteur au connecteur de moniteur HDMI 1.

• Ne raccordez pas un moniteur au connecteur de moniteur 1 à l'avant de l'appareil quand celui-ci est sous tension.

Exemple de connexion du NSRE-S200

Vous pouvez raccorder jusqu'à sept unités NSRE-S200 optionnelles au NSR-1200/1100/1050H dans les configurations suivantes.

Remarque

Le câble mini-SAS utilisé pour la connexion est fourni avec le NSRE-S200.

Raccordez les extensions NSRE-S200 dans l'ordre suivant.
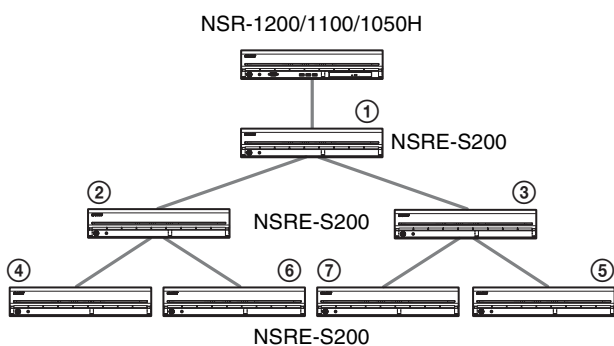
Autres aspects

Voyant LED STATUS

Si une erreur se produit avec l'appareil, le voyant LED ERROR du panneau avant clignote ou s'allume en fonction de l'état de cette erreur, et le voyant LED STATUS s'allume.

STATUS ▮1 ▮2 ▮3 ▮4   ▮ ERROR

Le voyant LED STATUS (état) indique les situations d'erreur suivantes.

Codes d'erreur affichés pendant le démarrage
(Le voyant LED ERROR clignote quand une erreur se produit pendant le démarrage.)

Code d'erreur	Voyant LED STATUS	Voyant LED ERROR	Cause possible
1	1 2 3 4	Clignote	Panne de tension d'alimentation
2	1 2 3 4	Clignote	Panne du ventilateur CPU
3	1 2 3 4	Clignote	Module de mémoire défectueux
4	1 2 3 4	Clignote	Panne du batterie CMOS
5	1 2 3 4	Clignote	Panne du mémoire d'accès aléatoire vidéo (RAM) ou contrôleur
6	1 2 3 4	Clignote	Panne du contrôleur du disque dur
7	1 2 3 4	Clignote	Aucun dispositif d'amorçage trouvé
8	1 2 3 4	Clignote	Aucun système d'exploitation d'amorçage trouvé
9	1 2 3 4	Clignote	Panne d'un ou plusieurs disques durs
A	1 2 3 4	Clignote	Panne de volume SE RAID
B	1 2 3 4	Clignote	Impossible de démarrer le serveur X11
C	1 2 3 4	Clignote	Impossible de démarrer l'application
D	1 2 3 4	Clignote	Réservé pour un usage ultérieur
E	1 2 3 4	Clignote	Réservé pour un usage ultérieur
F	1 2 3 4	Clignote	Panne de volume données RAID

Codes d'erreur affichés pendant l'opération
(Le voyant LED ERROR s'allume quand une erreur se produit pendant l'opération.)

Code d'erreur	Voyant LED STATUS	Voyant LED ERROR	Cause possible
1	1 2 3 4	Marche	Température critique
2	1 2 3 4	Marche	Panne du ventilateur CPU
3	1 2 3 4	Marche	Panne d'alimentation du ventilateur
4	1 2 3 4	Marche	Panne de tension d'alimentation
5	1 2 3 4	Marche	Panne du ventilateur du disque dur 1
6	1 2 3 4	Marche	Panne du ventilateur du disque dur 2
7	1 2 3 4	Marche	Le lecteur de disque dur est endommagé.
8	1 2 3 4	Marche	Réservé pour un usage ultérieur
9	1 2 3 4	Marche	Réservé pour un usage ultérieur
A	1 2 3 4	Marche	Réservé pour un usage ultérieur
B	1 2 3 4	Marche	Erreur de système d'exploitation
C	1 2 3 4	Marche	Echec de fonctionnement de l'application
D	1 2 3 4	Marche	Le témoin [ERROR] de l'écran principal est allumé
E	1 2 3 4	Marche	Panne de volume données RAID
F	1 2 3 4	Marche	Le volume de données RAID est en cours de restructuration

▮ signale que le voyant LED STATUS ou le voyant LED ERROR est allumé.

Port d'E/S

Distribution de contacts du port d'E/S

Entrée de capteur

Contact No.	ENTREE CAPTEUR
1	3.3 v
2	IN_8 –
3	IN_8 +
4	IN_7 –
5	IN_7 +
6	IN_6 –
7	IN_6 +
8	IN_5 –
9	IN_5 +
10	IN_4 –
11	IN_4 +
12	IN_3 –
13	IN_3 +
14	IN_2 –
15	IN_2 +
16	IN_1 –
17	IN_1 +
18	GND

Sortie d'alarme

Contact No.	Sortie d'alarme
1	GND
2	OUT_8 –
3	OUT_8 +
4	OUT_7 –
5	OUT_7 +
6	OUT_6 –
7	OUT_6 +
8	OUT_5 –
9	OUT_5 +
10	OUT_4 –
11	OUT_4 +
12	OUT_3 –
13	OUT_3 +
14	OUT_2 –
15	OUT_2 +
16	OUT_1 –
17	OUT_1 +
18	3.3 v

RS-422/485

Contact No.	RS-422	RS-485
19	TX-	TX-
20	TX+	TX+
21	RX-	
22	RX+	

Utilisation du réceptacle d'E/S

Insérez un petit tournevis plat dans la fente supérieure ou inférieure de l'emplacement où vous voulez placer un câble (AWG No. 28 à 18). Tenez le tournevis enfoncé et insérez le câble, puis relâchez le tournevis.

Attention

Ne forcez pas sur le tournevis lorsque vous l'insérez dans la fente. Sinon vous pourriez endommager l'appareil.
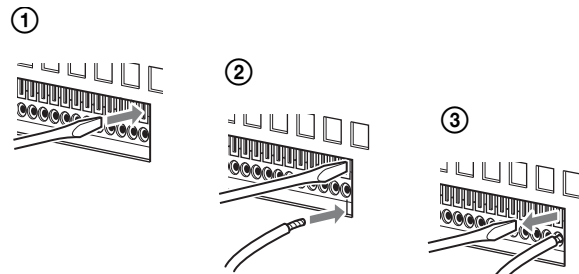
Répétez ce procédé pour connecter tous les câbles nécessaires.

Schéma de câblage 1 pour contact d'entrée

Intérieur de cet appareil   Extérieur

contact 3, 5, 7, 9, 11, 13, 15, 17
(ENTREE CAPTEUR+)

2.35 kΩ

Dispositif capteur
Sortie :
3,3 à 24 V CC
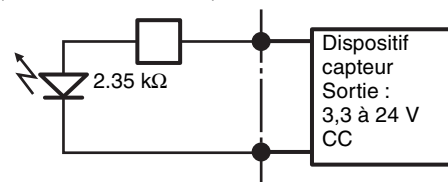
contact 2, 4, 6, 8, 10, 12, 14, 16
(ENTREE CAPTEUR-)

Schéma de câblage 2 pour contact d'entrée

Intérieur de cet appareil   Extérieur

1 contact (VDD) (200 mA max)

contact 3, 5, 7, 9, 11, 13, 15, 17 (ENTREE CAPTEUR+)

Câble

2.35 kΩ

Interrupteur mécanique

contact 2, 4, 6, 8, 10, 12, 14, 16 (ENTREE CAPTEUR-)

ou

contact 18 (GND)

GND

Sortie collecteur ouvert
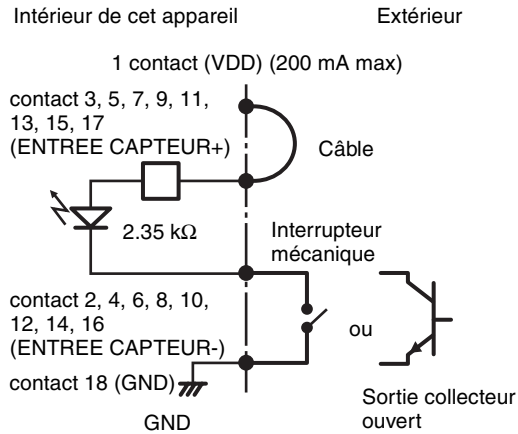
Remarque

Quand vous utilisez le schéma de câblage 2, le NSR n'est pas isolé électriquement. Veillez donc à créer des circuits externes qui ne produiront pas de bruit, de surtension ou de surintensité.

Schéma de câblage pour sortie d'alarme

Intérieur de cet appareil   Extérieur

contact 3, 5, 7, 9, 11, 13, 15, 17 (ENTREE ALARME+)

5 V

Relais magnétique 24 V CA/24V CC, 1A ou moins

Exemple de circuit

contact 2, 4, 6, 8, 10, 12, 14, 16 (ENTREE ALARME-)

GND
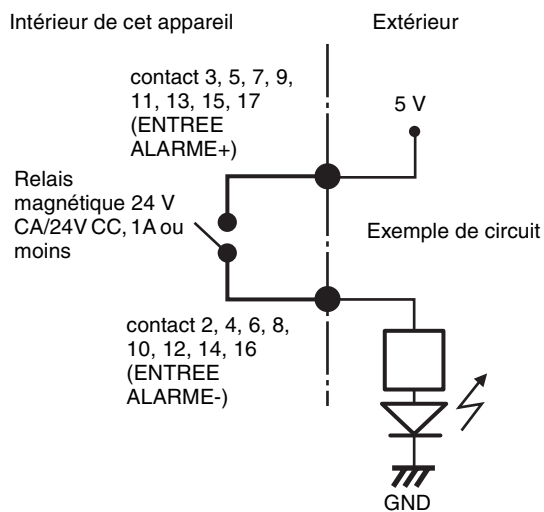
Dépannage

Avant de contacter votre revendeur ou un centre de service Sony, veuillez vérifier les éléments suivants. Si le problème persiste, veuillez les contacter.

Le NSR ne fonctionne pas.

- Vérifiez que l'interrupteur d'alimentation est activé.
- Vérifiez que le câble d'alimentation est bien raccordé.
- Vérifiez que la prise est elle-même alimentée. Testez-la en branchant un autre dispositif.

- Vérifiez que les disques durs ne sont pas en cours d'accès (que les voyants LED HDD à l'avant de l'enregistreur ne clignotent pas), puis forcez la mise hors tension en maintenant l'interrupteur d'alimentation à l'arrière de l'appareil enfoncé pendant environ 10 secondes. Redémarrez le NSR.
- Pendant la procédure de démarrage, le NSR vérifie le système de fichiers. La durée de cette vérification dépend de la quantité de données sur le NSR (dans certains cas, elle peut prendre deux heures). Pendant la vérification du système de fichiers, les voyants LED HDD à l'avant de l'enregistreur clignotent.
- Si le NSR ne démarre pas correctement, l'écran suivant peut s'afficher.

```
NSR DOM Menu

1. HDD Restore
2. DOM Restore
3. Software Restore
4. Reboot the system
5. Shutdown the system

Enter your choice :
```
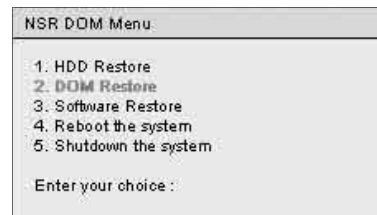
Si c'est le cas, procédez comme suit.
1. Sélectionnez « 5. Shutdown the system », et appuyez sur la touche d'entrée.
2. En vous référant à « Accès au disque dur impossible », vérifiez la bonne connexion des disques durs du NSR.
3. Redémarrez le NSR et vérifiez son lancement.

Le moniteur reste vierge.

- Vérifiez que le NSR est activé.
- Vérifiez que le cordon d'alimentation est bien raccordé.
- Vérifiez que le câble de moniteur est bien raccordé. Vérifiez que le moniteur est raccordé au connecteur de moniteur 1.
- Si vous configurez une résolution de moniteur incorrecte, le message « Hors de portée » peut s'afficher si la résolution de moniteur est trop basse par rapport à la sortie de moniteur. Appuyez sur CTRL+ALT+SIGNE MOINS autant de fois que nécessaire pour réduire la résolution de la vidéo émise. Lorsque la résolution de l'image émise atteint la résolution du moniteur, l'image apparaît. Par la suite, reconfigurez la résolution de votre moniteur. Pour plus de détails, consultez le guide de l'utilisateur (PDF).

Le moniteur raccordé au connecteur HDMI n'affiche pas correctement.

- Si vous faites basculer l'entrée du moniteur HDMI ou reconnectez le câble, les images peuvent ne pas s'afficher correctement. Si c'est le cas, essayez ce qui suit.
1. Faites basculer l'entrée du moniteur.
2. Redémarrez le moniteur.

Si le problème persiste après les démarches ci-dessus, déconnectez le câble HDMI et continuez l'opération avec le moniteur RVB analogique. Lorsque l'arrêt des opérations est possible, redémarrez l'appareil et essayez de reconnecter le moniteur HDMI.

Le nouveau matériel externe ne fonctionne pas correctement.

- Vérifiez que les câbles du nouveau dispositif externe sont fermement connectés et que les broches ne sont pas courbées.

Un dispositif externe raccordé à un connecteur USB ne fonctionne pas.

- Lorsque vous raccordez un dispositif USB à l'appareil, le témoin [ERROR] dans le coin inférieur droit de l'écran peut s'allumer. Utilisez la procédure suivante pour vérifier si l'appareil prend en charge le dispositif USB.
    1. Cliquez sur le témoin [ERROR].
       Le journal de système s'affiche.
    2. Vérifiez si l'erreur « Unsupported USB Device » s'affiche dans le journal.
       Si « Unsupported USB Device » s'affiche, l'appareil ne prend pas en charge le dispositif USB.
- Cet appareil prend en charge les dispositifs de stockage de masse USB 2.0 standard. Il arrive cependant que, selon le type de dispositif de stockage de masse USB 2.0, des erreurs se produisent lors de l'écriture de données sur le dispositif. Si des erreurs se produisent lors de l'écriture de données, utilisez un autre type de dispositif de mémoire USB.
- Pour garantir un bon fonctionnement des dispositifs USB, évitez de raccorder les dispositifs à l'aide d'un concentrateur USB. Raccordez les dispositifs directement aux connecteurs USB de l'appareil. Le fonctionnement n'est pas garanti quand les dispositifs sont raccordés à l'aide d'un concentrateur USB, un commutateur USB ou un câble d'extension.
- Consultez la documentation fournie avec le dispositif USB.

Le système ne peut pas lire les informations de DVD/CD.

- Vérifiez que vous utilisez le type de disque correct.
- Vérifiez que le DVD/CD est bien introduit dans le lecteur.
- Vérifiez que le DVD/CD est propre et non rayé.

Le tiroir à DVD/CD ne peut être éjecté.

- Vérifiez que le NSR est sous tension.

- Insérez soigneusement la pointe d'un stylo à bille ou d'un trombone dans l'orifice d'éjection du lecteur de DVD/CD. Tirez sur le tiroir pour ôter le disque.

Le voyant LED NETWORK (réseau) ne s'allume pas.

- Vérifiez les connexions des câbles et des appareils du réseau.

Accès au disque dur impossible.

- Vérifiez que le disque dur est correctement inséré.
- Vérifiez les voyants LED HDD sur le panneau avant du système. Identifiez le disque dur défectueux grâce aux voyants LED. Le voyant LED HDD d'un disque défectueux ne s'allume pas.
- En raison du clignotement rapide pendant les accès fréquents au disque dur, le voyant LED HDD peut sembler éteint dans les environnements très lumineux.

Accès au NSR depuis un client distant impossible.

- Vérifiez le bon fonctionnement du NSR (il ne doit pas y avoir d'anomalie avec le disque dur, le réseau, le logiciel ni avec les autres éléments).
- Vérifiez que les réglages du serveur central de l'unité sont corrects.
- Vérifiez que le nom d'utilisateur, le mot de passe et le port de connexion sont définis correctement dans RealShot Manager Advanced.
- Consultez la section de dépannage du guide de l'utilisateur pour le RealShot Manager Advanced.

Le NSR s'échauffe rapidement.

- Vérifiez que rien n'obstrue les orifices de ventilation à l'avant, sur les côtés et à l'arrière de l'appareil, et que la poussière ne s'y est pas accumulée.

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Version 2.1, February 1999

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use

the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library,

complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

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    b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
    c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
    d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

    (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or

table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library

and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Caractéristiques

NSR-1200/1100/1050H

Processeur
CPU   NSR-1200 : Quad Core Xeon
NSR-1100 : Dual Core Xeon
NSR-1050H : Dual Core Xeon

Mémoire
Mémoire flash sur carte
        4 Go
Mémoire interne
        NSR-1200 :2 Go
        NSR-1100 :1 Go
        NSR-1050H :1 Go

Dispositifs d'enregistrement
Disque dur interne
        NSR-1200 : 2 To
          (SATA-II 500 Go × 4)
        NSR-1100 : 1 To
          (SATA-II 500 Go × 2)
        NSR-1050H : 500 Go
          (SATA-II 500 Go × 1)
        Les capacités des disques durs sont basées sur l'équation suivante pour 1 Go :
        $1\,000 \times 1\,000 \times 1\,000 = 1$ milliard d'octets
Lecteur DVD/CD (avant)
        1 lecteur
        Supports compatibles : DVD+R, DVD-R, DVD-ROM, CD-R, CD-RW, CD-ROM

Connecteurs externes
Avant   Sortie moniteur :
          RVB analogique (mini D-SUB 15 broches) (1)
        USB : USB 2.0 (3)
Arrière   Sortie moniteur :
          RVB analogique (mini D-SUB 15 broches) (2)
          HDMI (2)
        Sortie audio (L) (1)
        Sortie audio (R) (1)
        Entrée audio (1)
        LAN (1000Base-T/100Base-TX/ 10Base-T) (RJ-45) (4)
        USB : USB 2.0 (3)
        Sortie mini-SAS (pour la connexion d'une unité NSRE-S200 optionnelle, mini-SAS ×4 (SFF-8088), 3,0 Gbit/s) (1)
Entrée de capteur (compatible avec les dispositifs 3,3 V à 24 V CC, entrée de photocoupleur, isolée de l'unité principale) (8)
Sortie d'alarme (maximum 24 V CC, 1 A, sortie automate à contacts électriques, isolée de l'unité principale) (8)
Série UPS (alimentation sans coupure) : RS-232C (1)
Contrôle de caméra analogique (uniquement avec une unité NSR-1050H ou une extension NSBK-A16) :
RS-232C (1)
RS-422/485 (1)

Environnement d'utilisation
Température d'utilisation
        5 °C à 40 °C (41 °F à 104 °F)
Humidité d'utilisation
        20% à 80% (température maximale de bulbe humide : 30 °C, sans condensation)
Plage de températures de rangement
        –20 °C à +60 °C (–4 °F à 140 °F)
Plage d'humidité de rangement
        20 % à 90 % d'humidité relative (température du thermomètre mouillé maximale 40 °C/104 °F, sans condensation)

Alimentation et autres aspects
Alimentation
        100 à 127 V CA/200 à 240 V CA (50/60 Hz)
Consommation
        Max. 350 W
Dimensions
        $430 \times 87 \times 417$ mm ($16,9 \times 3,4 \times 16,4$ pouces) (L/H/P, sans les parties saillantes)
Poids
        NSR-1200 : environ 13,5 kg (29,8 livres)
        NSR-1100 : environ 12 kg (26,7 livres)
        NSR-1050H : environ 11,5 kg (25,4 livres)

Accessoires en option
Kit de mise en rack NSR-RM1
Kit d'encodage analogique NSBK-A16
Unité de stockage d'extension NSRE-S200

L'apparence et les caractéristiques sont sujettes à modification sans préavis.

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Sicherheitsmaßnahmen

Wichtige Sicherheitsinformationen

- Schließen Sie das Gerät nur an eine Stromquelle an, die vollständig den elektrischen Spezifikationen des Gerätes entspricht.
- Verwenden Sie ausschließlich das mitgelieferte Netzkabel. Wickeln Sie das Netzkabel nicht auf und bündeln Sie es nicht mit anderen Kabeln. Schließen Sie nicht zu viele Geräte an eine Steckdose an. Wenn die Stromstärke zu hoch ist, bestehen Feuergefahr und die Gefahr anderer Unfälle.
- Vergewissern Sie sich, dass alle Netzsteckdosen und Netzkabel ordnungsgemäß geerdet sind.
- Verwenden Sie das Gerät nicht, wenn Abdeckungen oder das Gehäuse geöffnet oder abgenommen wurden. Andernfalls besteht Feuergefahr und die Gefahr eines elektrischen Schlags. Versuchen Sie nicht selbst, Abdeckungen oder das Gehäuse zu öffnen oder abzunehmen. Wenden Sie sich immer an Ihren Händler, wenn das Öffnen des Geräts erforderlich ist.

Wichtige Installationsinformationen

Ort für Betrieb/Lagerung
Um die Lebensdauer des Produkts zu verlängern, verwenden oder lagern Sie es möglichst nicht an Orten, die folgenden Bedingungen ausgesetzt sind:
- Extremer Hitze oder Kälte. (Ich folge den genauen Angabe dieses Gerätes und benutze es bitte.)
- Direktem Sonnenlicht über längere Zeit hinweg und Hitze von Heizgeräten. Beachten Sie, dass die Temperatur in einem geschlossenen Fahrzeug im Sommer +50 °C/122 °F übersteigen kann.
- Hoher Luftfeuchtigkeit oder übermäßig viel Staub
- Starken Vibrationen
- Starken magnetischen Feldern
- Unmittelbarer Nähe zu Radio- oder Fernsehsendern, die ein starkes magnetisches Feld erzeugen.

Blockieren Sie die Lüftungsöffnungen nicht
- Die Lüftungsöffnungen an den Seiten des Geräts dienen zum Verhindern eines Hitzestaus im Gerät. Lassen Sie auf beiden Seiten sowie hinter und über dem Gerät immer mindestens 10 cm Platz.
- Verwenden Sie das Gerät nicht in einem geschlossenen Schrank, einem geschlossenen Regal o. ä.
- Achten Sie darauf, dass sich keine Kabel oder anderen Gegenstände in der Nähe der Ventilatoröffnung an der Rückseite des Geräts befinden. Wenn die Öffnung blockiert wird, kann sich im Gerät ein Hitzestau bilden und es besteht Feuergefahr und die Gefahr von Sachschäden.

- Wenn das Gerät in einem Gestell installiert ist, müssen Sie ebenfalls darauf achten, dass die Ventilatoröffnung an der Rückseite sowie die Lüftungsöffnungen an der Vorderseite nicht durch Kabel oder andere Gegenstände blockiert werden. Installieren Sie das Gerät nicht in einer Umgebung, in der die oben genannten Bedingungen nicht erfüllt sind.

Verwenden Sie das Gerät in waagrechter Position
- Dieses Gerät ist für den Betrieb in waagrechter Position konzipiert.
- Stellen Sie das Gerät nicht auf eine geneigte Oberfläche und schützen Sie das Gerät vor Stößen.
- Wenn das Gerät herunterfällt oder auf andere Weise heftigen Stößen ausgesetzt wird, kann es schwer beschädigt werden.
- Wenn Sie das Gerät in einem Gestell installieren, vergewissern Sie sich, dass es in waagrechter Position bleibt. Wenn das Gerät nicht richtig waagrecht ausgerichtet ist, kann es zu Fehlfunktionen kommen. Außerdem empfiehlt es sich dringend, das Gestell sicher an einer Wand o. ä. zu verankern, so dass es nicht umkippen kann.

Wartung
- Ziehen Sie vor dem Reinigen des Geräts und anderen Wartungsarbeiten unbedingt den Netzstecker aus der Netzsteckdose.
- Wischen Sie zum Reinigen mit einem trockenen Tuch vorsichtig über das Gehäuse und die Abdeckungen. Bei hartnäckigen Verschmutzungen feuchten Sie das Tuch mit einem milden, neutralen Reinigungsmittel leicht an und wischen mit einem trockenen Tuch nach.
- Verwenden Sie keinen Reinigungsalkohol, keine Lösungsmittel, kein Benzin, keine Insektizide oder andere flüchtige Substanzen, da diese die Oberfläche angreifen und zu Verfärbungen führen können.
- In den Lüftungsöffnungen vorn am Gerät kann sich Staub ansammeln. Achten Sie beim Entfernen des Staubs darauf, das Gerät keinen Erschütterungen oder Vibrationen auszusetzen.

Transport
Verpacken Sie das Gerät im Original- oder ähnlichem Verpackungsmaterial, um es vor Stößen zu schützen.

DE

Sicherheitshinweise für Produkte mit eingebauter Festplatte

Dieses Gerät ist mit einer eingebauten Festplatte ausgestattet. Die Festplatte ist ein Präzisionsgerät. Wenn sie Stößen, Vibrationen, statischer Elektrizität, hohen Temperaturen oder hoher Luftfeuchtigkeit ausgesetzt wird, kann es zu Datenverlusten kommen. Beachten Sie beim Installieren und Verwenden des Geräts unbedingt folgende Sicherheitshinweise.

Schutz vor Stößen und Vibrationen

Wenn die Festplatte Stößen und Vibrationen ausgesetzt wird, kann sie beschädigt werden und Daten können verloren gehen.

- Verwenden Sie zum Transport des Geräts das angegebene Verpackungsmaterial. Beim Transport auf einem fahrbaren Rollwagen oder ähnlichem dürfen keine übermäßigen Vibrationen auftreten. Bei starken Stößen und Erschütterungen kann die Festplatte beschädigt werden.
- Stellen Sie das Gerät nie um, solange es eingeschaltet ist. Vergewissern Sie sich auch vor dem Herausnehmen oder Einsetzen des Geräts aus einem bzw. in ein Gestell, dass es ausgeschaltet ist.
- Schützen Sie alle mit einer Festplatte ausgestatteten Geräte im Gestell vor Stößen.
- Vergewissern Sie sich vor dem Herausnehmen oder Einsetzen des Geräts aus einem bzw. in ein Gestell, dass auch alle anderen mit einer Festplatte ausgestatteten Geräte im Gestell ausgeschaltet sind.
- Nehmen Sie keine Abdeckungen oder äußeren Teile vom Gerät ab.
- Wenn Sie das Gerät auf den Boden oder eine andere Oberfläche stellen, vergewissern Sie sich, dass die zugehörigen Unterlagen angebracht sind, und setzen Sie das Gerät vorsichtig ab. Sind keine Unterlagen angebracht, montieren Sie zunächst die erforderlichen Unterlagen.
  Stellen Sie das Gerät nicht in die Nähe anderer Geräte, die Vibrationen verursachen könnten.

Warten Sie nach dem Ausschalten des Geräts 30 Sekunden lang

Nach dem Ausschalten des Geräts drehen sich die Platten im Festplattenlaufwerk eine kurze Weile weiter und die Köpfe befinden sich in einer instabilen Position. In dieser Zeit ist das Gerät bei Stößen und Vibrationen noch empfindlicher als im normalen Betrieb. Schützen Sie das Gerät nach dem Ausschalten mindestens 30 Sekunden lang selbst vor äußerst geringen Erschütterungen. Danach befindet sich die Festplatte vollständig im Ruhezustand und das Gerät kann transportiert werden.

Sicherheitshinweise hinsichtlich Temperatur und Luftfeuchtigkeit

Verwenden und lagern Sie das Gerät nur an Orten, an denen die angegebenen Temperatur- und Luftfeuchtigkeitswerte nicht über- oder unterschritten werden. (Ich folge den genauen Angabe dieses Gerätes und benutze es bitte.)

Bei defekter Festplatte

Beachten Sie bitte alle oben genannten Sicherheitshinweise, auch wenn die Festplatte bereits Fehlfunktionen aufweist. Damit lassen sich weitere Schäden verhindern, bis das Problem festgestellt und behoben werden kann.

Ersetzen der Festplatte und anderer Verbrauchsmaterialien

Festplatte, Lüfter und Batterie des Geräts sind Verbrauchsmaterialien, die regelmäßig ersetzt werden müssen. Wenn das Gerät bei Raumtemperatur betrieben wird, sollten die Teile ca. alle zwei bis drei Jahre ersetzt werden. Diese Ersatzfristen stellen jedoch nur eine allgemeine Richtlinie und keine Garantie der Lebensdauer dieser Teile dar. Weitere Informationen zum Austausch von Komponenten erhalten Sie bei Ihrem Händler.

Sicherheitshinweise für die Verwendung von USB-Geräten

- Dieses Gerät unterstützt standardmäßige USB 2.0-Massenspeichergeräte. Bei einigen Typen von USB 2.0-Massenspeichergeräten können allerdings Fehler beim Schreiben von Daten auf das Gerät auftreten. Verwenden Sie in diesem Fall ein USB-Speichergerät eines anderen Typs.
- Schließen Sie zur Gewährleistung des korrekten Betriebs USB-Geräte nicht über einen USB-Hub an. Schließen Sie die Geräte direkt an die USB-Anschlüsse an der Vorderseite und Rückseite des Geräts an. Wenn Geräte über einen USB-Hub, einen USB-Switch oder ein Verlängerungskabel angeschlossen werden, wird die Funktion nicht garantiert.

Überblick

Das NSR Series ist ein Harddisk-Recording-Server für Netzwerkkameras. Es ermöglicht die Überwachung und Aufzeichnung der Bilder von Netzwerkkameras (als JPEG oder MPEG-4). Ebenso ermöglicht es als vielseitiges Überwachungssystem die Wiedergabe und das Durchsuchen der aufgezeichneten Bilder.

Fernsteuerung kompatibler Kameras

Sie können die Funktionen Schwenken, Neigen und Zoom von kompatiblen Kameras steuern.

Kompatibel mit analogen Kameras

Sie können Bilder von analogen Kameras Überwachen und Aufzeichnen, indem Sie diese direkt an das Gerät anschließen[1] .

1) Für das NSR-1200/1100 ist hierzu eine (optionale) NSBK-A16-Erweiterung erforderlich. Das NSR-1050H verfügt über einen integrierten Anschluss.

Kapazitätsstarke Festplatten für langfristige Aufzeichnungen

Das Gerät ist mit kapazitätsstarken Festplatten ausgerüstet und kann für langfristige Aufzeichnungen mit hoher Qualität erstellen. Referenzbeispiele finden Sie im Abschnitt ,,Referenzdaten für die Installation" (Seite 157).

Flache, platzsparende 2HE-Bauweise für 19-Zoll-Rackmontage

Mit dem optionalen Rack-Montagekit (als Zubehör erhältlich) kann der Recorder in ein 19-Zoll-Rack nach EIA-Standard (Universalraster) eingebaut werden.

Hoch auflösende Aufzeichnung bis zu 480 fps (VGA, JPEG)

Das NSR-1200 unterstützt bis zu 64 Kameras, das NSR-1100 bis zu 32 Kameras und das NSR-1050H bis zu 20 Kameras. Das NSR-1200 zeichnet Bilder mit einer Gesamtbildfrequenz von 480 fps[1] (NSR-1100: 240 fps, NSR-1050H: 120 fps) in VGA-Auflösung (640×480 Pixel)[2] und im JPEG-Bildformat auf (1 Einzelbild = ca. 31 KB) und liefert damit eine gestochen scharfe Bildqualität.

1) Maximale Bildfrequenz bei Anschluss von 16 Kameras an den Recorder. Jede Kamera verfügt über eine Bildfrequenz von ungefähr 30 fps. Diese Bildfrequenz kann unter Umständen durch Fragmentierung der internen Festplatten geringer ausfallen. Werte basieren auf Messungen von Sony. Diese Werte werden nicht garantiert, da die Leistung von den jeweiligen Umgebungsbedingungen abhängt.

2) Bei QuadVGA-Auflösung (1.280×960) beträgt die Bildfrequenz 1/4 des bei VGA-Auflösung erreichten Wertes.

Hohe Zuverlässigkeit

Das NSR-1200 unterstützt RAID 5[1] und zeichnet sich durch hohe Zuverlässigkeit aus. Das System funktioniert auch dann noch, wenn eine Festplatte ausfällt. Da die Systemsoftware und die Einstellungen des NSR auf einem internen Flashspeicher gespeichert werden, kann das System im Fall einer Funktionsstörung der Systemsoftware blitzschnell wiederhergestellt werden. Zur weiteren Steigerung der Zuverlässigkeit unterstützt das NSR auch unterbrechungsfreie Stromversorgungen (USV).

1) RAID 5 ist ein System zur Aufteilung und Speicherung von Daten und Paritätsinformationen (Fehlerkorrekturcodes) auf mehreren Festplatten. Dieses System ermöglicht die Fortsetzung des Betriebs für den Fall, dass eine der Festplatten ausfällt. Es garantiert jedoch nicht die Wiederherstellung verlorener Daten. Aufgrund des hohen internen Verarbeitungsaufwands bei der Rekonstruktion nach dem Ersatz einer ausgefallenen Festplatte, ist das Gerät währenddessen möglicherweise nicht in der Lage, Bilder mit der festgelegten Aufzeichnungsrate zu speichern.

Andere Eigenschaften

- Auf einem Bildschirm können Sie bis zu 64 Kamerabilder (8×8 Bilder) darstellen.
- Der NSR eignet sich u.a. für manuelle, geplante und alarmgesteuerte Aufzeichnungen.
- Der NSR verfügt über eine Funktion zur Aktivitätserkennung[1] (Video Motion Detection (Recorder)).
- Suchläufe nach aufgezeichneten Bildern sind anhand von Kameranamen, Datum, Alarm und weiterer Kriterien möglich.
- Mit den dynamischen Maskierungsfunktionen[2] des NSR können Sie Privatsphäre-Bereiche definieren. Dynamische Maskierungsfunktionen können auf die Schwenk-, Neigungs- und Vergrößerungsfunktion angewendet werden.
- Eine präzise Alarmverarbeitung wird durch die Durchführung verschiedener Arten von Filterung[3] mit Hilfe der von der Kamera in Form von Objektinformations-Metadaten gesendeten Bildverarbeitungsergebnisse ermöglicht. Weil auf bereits aufgezeichnete Metadaten Filter angewendet werden können, können Sie auch Bereiche von Interesse suchen, nachdem die Aufzeichnung abgeschlossen ist.
- Tonaufnahme und -wiedergabe[4] sind mit kompatiblen Kameras möglich.

1) Einige Funktionen sind abhängig von der Anzahl angeschlossener Kameras eingeschränkt.
2) Einige Funktionen sind nur bei bestimmten Kameramodellen verfügbar.
3) Um Bewegungserkennung sowie Objecterkennung mit Hilfe von Metadaten durchzuführen, ist eine Kamera erforderlich, die eine Bewegungserkennung mit Metadaten unterstützt. Die Verwendung von Metadaten wird für bis zu 32 Kameras unterstützt.
4) Optionale Audioverstärker oder Lautsprecher werden benötigt.

Wichtig

Dieses Handbuch beschreibt nur die Installation und Konfiguration des NSR. Ausführliche Anleitungen zur Bedienung des Gerätes finden Sie im Benutzerhandbuch (PDF-Datei).

Systemanforderungen

Folgende Hardware ist für die Nutzung dieses Recorders erforderlich.
- Sony-Netzwerkkameras
  Informationen über kompatible Sony-Netzwerkkameras erhalten Sie bei Ihrem Händler.
- Monitor[1]
- USB-Tastatur[2]
- USB-Maus[3]
- USB-Fernsteuerung[4]
- Netzwerkswitch
- 1000Base-T/100Base-TX/10Base-T-Kabel
- USB-Speichergerät[5]

1) Das Gerät unterstützt HDMI-kompatible Geräte und Computermonitore mit Unterstützung für RGB-Eingangssignale.
   Die folgenden Auflösungen können angegeben werden.
   - Vollständige hoch auflösende Anzeige (1.920 × 1.080)
   -WUXGA (1.920 × 1.200)
   -Vollständiges XGA-Breitbildformat (1.360 × 768)
   -UXGA (1.600 × 1.200)
   -SXGA (1.280 × 1.024)
   -XGA (1.024 × 768)
2) Verwenden Sie eine USB-Tastatur mit Kabel. Die Funktion von Nichtstandardtasten kann nicht garantiert werden. Ebenso funktionieren USB-Tastaturen mit Funk- oder Infrarotschnittstelle unter Umständen nicht.
3) Verwenden Sie eine USB-Maus mit Kabel. Mäuse mit drei Tasten oder Scrollrad funktionieren möglicherweise nicht ordnungsgemäß. Ebenso funktionieren USB-Mäuse mit Funk- oder Infrarotschnittstelle unter Umständen nicht.
4) Die Funktionen Schwenken, Neigung und Zoom der Kameras können mit einer Fernbedienung gesteuert werden.
   -Das Gerät unterstützt IP Desktop USB-Controller von CH Products. Andere Fernbedienungen werden nicht unterstützt.
5) Erforderlich zum Erstellen von Sicherungskopien von Systeminformationen wie z. B. Protokolldateien.
   -Dieses Gerät unterstützt standardmäßige USB 2.0-Massenspeichergeräte. Bei einigen Typen von USB 2.0-Massenspeichergeräten können allerdings Fehler beim Schreiben von Daten auf das Gerät auftreten. Verwenden Sie in diesem Fall ein USB-Speichergerät eines anderen Typs.

Hinweis

Bei der Verwendung mit Monitoren, die HDMI- und RGB-Eingabe unterstützen, wird die Verwendung des RGB-Eingangs empfohlen.

Paketinhalt

Prüfen Sie, ob die nachfolgend aufgeführten Gegenstände in der Packung enthalten sind:

NSR-1200/1100
- Surveillance Recording Server NSR-1200/1100 (1)
- Schlüssel für Frontblende (2)
- Installationshandbuch (dieses Dokument) (1)
- Kurzanleitung (1)
- Überwachungsfenster-Benutzerhandbuch (1)
- Sicherheitsbestimmungen (1)
- WEEE-Broschüre (1)
- Garantieheft (1)
- Gummifüße (4)

NSR-1050H
- Surveillance Recording Server NSR-1050H (1)
- Schlüssel für Frontblende (2)
- Kabel für analoge Kameraeingangssignale (1)
- Installationshandbuch (dieses Dokument) (1)
- Kurzanleitung (1)
- Überwachungsfenster-Benutzerhandbuch (1)
- Sicherheitsbestimmungen (1)
- WEEE-Broschüre (1)
- Garantieheft (1)
- Gummifüße (4)

Hinweise

- Diese Packung enthält möglicherweise zusätzliche Hardware und die dazugehörige Dokumentation.
- Heben Sie die Kartons und Verpackungsmaterialien zur späteren Verwendung auf.
- Der Rack-Montagesatz (NSR-RM1) ist optional (separat erhältlich).

Herunterladen von auf dem NSR gespeicherten Dateien

Auf dem NSR-Gerät sind Dokumente (z. B. Benutzerhandbücher) und Softwarewerkzeuge gespeichert . Folgendermaßen können Sie die auf dem NSR gespeicherten Dateien herunterladen.

1 Geben Sie in einem FTP-Client (z. B. Internet Explorer) auf Ihrem Computer die folgende URL-Adresse ein.
ftp://ftptool@<IP-Adresse des NSR>

2 Geben Sie folgenden Benutzernamen und folgendes Kennwort ein.
Benutzername:ftptool
Kennwort: ftptool

Hinweis

Um den Benutzernamen und das Kennwort zu ändern, ändern Sie die Konfiguration [Enable user to Get Tools from Remote] im Bereich ,,FTP" des Einrichtungsmenüs. Wenn Sie den Benutzernamen ändern, müssen Sie auch in der angegebenen URL-Adresse den Teil nach dem ,,ftp://" entsprechend dem neuen Benutzernamen ändern:
,,Benutzername@<IP-Adresse des NSR>".

Im FTP-Client werden die folgenden Ordner und Dateien angezeigt:

3 Klicken Sie auf die Ordner mit den gewünschten Dateien.

Ordner
Manual: enthält Benutzerhandbücher (im PDF-Format).
SourceCode: Enthält die GPL/LGPL-Quellcodes und weitere dazugehörige Daten.
Tool: enthält RealShot Manager Advanced und Media File Player.
Datei
README.txt: enthält Informationen zu den einzelnen Ordnern.

Die in den Ordnern enthaltenen Dateien werden angezeigt.

4 Klicken Sie auf die Dateien, die Sie herunterladen möchten.

Verwenden des PDF-Handbuchs

Auf dem NSR sind Benutzerhandbücher und andere
Dokumente gespeichert (in japanischer, englischer,
französischer, deutscher, italienischer, spanischer,
chinesischer Sprache und Russisch).
Die Kopien dieser Handbücher sind im PDF-Format
erstellt.

Vorbereitung

Um die auf dem NSR gespeicherten
Benutzerhandbücher verwenden zu können, muss die
folgende Software auf dem Computer installiert sein.
• Adobe Reader ab Version 6.0

Hinweis

Wenn Adobe Reader nicht installiert ist, können Sie die
Anwendung von der folgenden URL-Adresse
herunterladen:
http://www.adobe.com/

Adobe und Adobe Reader sind in den USA und anderen
Ländern Warenzeichen oder eingetragene Warenzeichen
von Adobe Systems Incorporated.

Anzeigen der Handbücher im PDF-Format

1 Laden Sie entsprechend der Anleitung im
Abschnitt „Herunterladen von auf dem NSR
gespeicherten Dateien" das Handbuch für Ihre
Sprache aus dem Ordner „Handbuch" auf dem NSR
herunter.

**2** Doppelklicken Sie auf die heruntergeladene Datei.

Hinweis

Abhängig von der verwendeten Version von Adobe
Reader kann die Datei möglicherweise nicht
ordnungsgemäß angezeigt werden. Wenn die Datei
nicht ordnungsgemäß angezeigt wird, laden Sie von
der im Abschnitt „Vorbereitung" angegebenen
URL-Adresse die aktuelle Version von Adobe
Reader herunter.

Eigenschaften und Funktionen

Vorderseite (Bei geöffneter Decke)

NSR-1200/1100/1050H
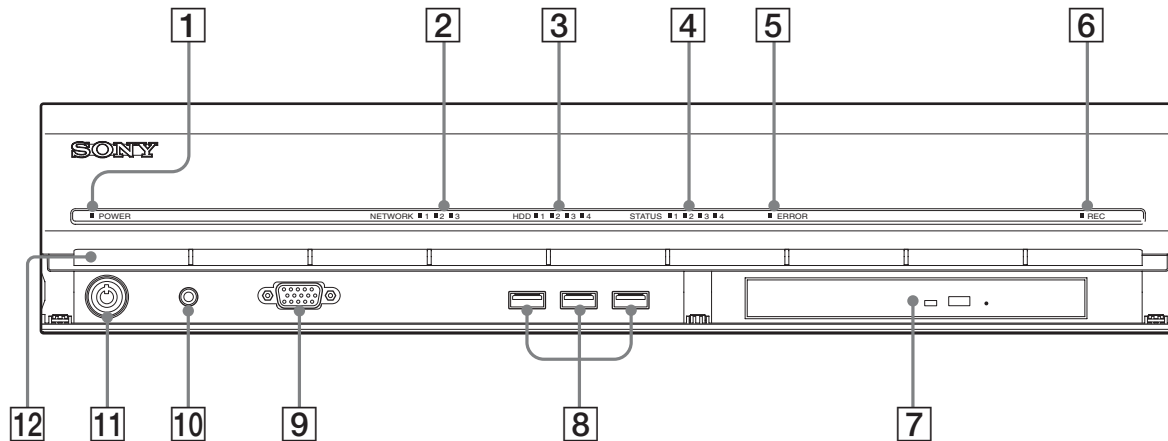
1 **Power-LED**
Leuchtet grün, wenn das Hochfahren abgeschlossen ist.
Leuchtet gelb, wenn das Gerät im Bereitschaftszustand ist.

2 **Netzwerk-LED (1 bis 3)**
Leuchtet grün, wenn der entsprechende LAN-Anschluss auf der Rückseite des NSR aktiv ist.

3 **Festplatten-LED**
Blinkt grün, wenn auf die internen Festplatten zugegriffen wird.
Leuchtet gelb, wenn bei einer Festplatte ein Fehler aufgetreten ist.

4 **Status-LED (1 bis 4)**
Leuchten nacheinander (in Reihenfolge 1, 2, 3, 4), wenn das NSR gestartet wird. Wenn ein Fehler auftritt, leuchtet die entsprechende Status-LED gemeinsam mit der Fehler-LED, welche durch Leuchten oder Blinken den Typ des Fehlers anzeigt.
Ausführliche Informationen hierzu finden Sie im Abschnitt „STATUSANZEIGE" (Seite 178).

5 **Fehler-LED**
Leuchtet oder blinkt, wenn ein Fehler auftritt.

6 **REC-LED**
Leuchtet beim Aufzeichnen von Bildern.

7 **DVD/CD-Laufwerk**
Verwenden Sie dieses Laufwerk, um Daten von den NSR-Festplatten auf DVD und CD zu schreiben.

8 **USB-Anschluss**
Schließen Sie hier eine USB-Tastatur, Maus oder einen USB-Flash-Speicher an das NSR an.

9 **Monitoranschluss 1**
Schließen Sie hier einen Monitor an.
Monitoranschluss 1 (und Monitoranschluss 1 auf der Rückseite des Gerätes) sowie HDMI-Monitoranschluss 1 auf der Rückseite des Gerätes können nicht gleichzeitig verwendet werden.

10 **Netzschalter**
Zum Einschalten des Geräts drücken. (Mit diesem Schalter können Sie das Gerät nicht ausschalten.)

11 **Schloss**
Mit dem im Lieferumfang enthaltenen Schlüssel für die Frontblende können Sie hiermit die Frontblende verriegeln. Wenn die Frontblende verriegelt ist, kann sie nicht herausgezogen werden. Die Frontblende darf nicht in herausgezogenem Zustand verriegelt werden. Die folgende Abbildung zeigt das Schloss in verriegelter und in geöffneter Position.

Frontblende verriegelt   Frontblende geöffnet

12 **Belüftungsöffnungen**
Ermöglichen das Strömen von Luft von der Vorderseite des NSR bis zur Rückseite.
Die Belüftungsöffnungen dürfen nicht abgedeckt werden. Das Ansammeln von im inneren Gitter der Belüftungsöffnungen ist zu verhindern. Der Luftstrom darf auf keine Weise behindert werden, da dies zur Entstehung eines Wärmestaus im NSR und in der Folge zu Entzündungen oder Beschädigungen führen kann.

Rückseite

NSR-1200/1100
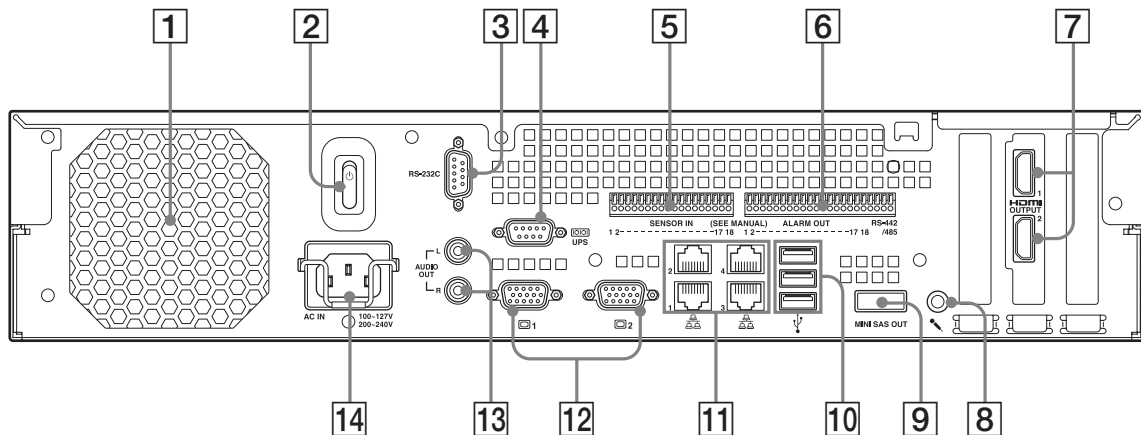
NSR-1050H
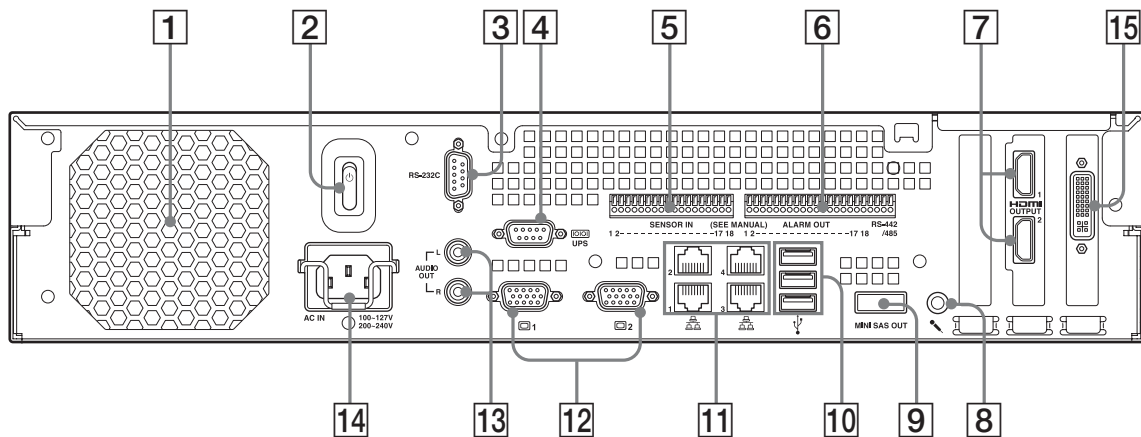
1 Lüfter
Die Lüfteröffnungen dürfen nicht abgedeckt werden, da
dies zur Entstehung eines Wärmestaus im Gerät und in
der Folge zu Entzündungen oder Beschädigungen
führen kann.

2 Netzschalter
Drücken Sie zum Einschalten des Geräts den
Netzschalter auf der Seite ⏻.

3 RS-232C-Anschluss
Verwenden Sie diesen Anschluss zum Steuern analoger
Kameras.
Dieser Anschluss kann nicht gleichzeitig mit dem RS-
422/485-Anschluss (die vier Kontakte ganz rechts am
Alarmausgangsanschluss **6**) verwendet werden.

4 USV-Anschluss (RS-232C)
Schließen Sie hier die Kontrollleitung einer
unterbrechungsfreien Stromversorgung (USV) an.

5 Sensor-Eingangsanschluss
Schließen Sie hier die Sensor-Eingangssignalleitungen
an.
Einzelheiten zum Anschluss und
Verkabelungsdiagramme für die Sensoreingänge finden
Sie im Abschnitt „E/A-Anschluss" (Seite 179).

6 Alarmausgangsanschluss
Schließen Sie hier die Alarmausgangsleitungen an.
Einzelheiten zum Anschluss und ein
Verkabelungsdiagramm für den Alarmausgang finden
Sie im Abschnitt „E/A-Anschluss" (Seite 179).

7 HDMI-Monitor-Anschlüsse (1 und 2)
Schließen Sie hier Monitore mit Unterstützung für
HDMI-Eingangssignale an.
HDMI-Monitoranschluss 1 und **12**-Monitoranschluss 1
(sowie Monitoranschluss 1 auf der Rückseite des
Gerätes) können nicht gleichzeitig verwendet werden.
HDMI-Monitoranschluss 2 und **12**-Monitoranschluss 2
können ebenfalls nicht gleichzeitig verwendet werden.

[8] **Audioeingang**

Schließen Sie hier ein Audiosignal eines Peripherie-Audiogeräts, z. B. eines Mikrofons, an.
Plug-In Power-Mikrofone werden unterstützt.

[9] **Mini-SAS-Ausgangsanschluss**

Schließen Sie hier das Mini-SAS-Kabel für die Verbindung zu einem NSRE-S200 an.
Das NSRE-S200 ist ein optionales Erweiterungsspeichergerät.

[10] **USB-Anschluss**

Schließen Sie hier eine USB-Tastatur, Maus oder einen USB-Flash-Speicher an das NSR an.

[11] **LAN-Anschlüsse (1 bis 4)**

Schließen Sie hier 10 Base-T-, 100 Base-TX- oder 1000 Base-T-Netzwerkabel an.
LAN1: Netzwerkkameras
LAN2: Remote-Clients
LAN3: Zur zukünftigen Erweiterung verwendet
LAN4: Zur zukünftigen Erweiterung verwendet

[12] **Monitoranschlüsse (1 und 2)**

Schließen Sie hier einen Monitor an.
Monitoranschluss 1 (und Monitoranschluss 1 auf der Rückseite des Gerätes) sowie [8] HDMI-Monitoranschluss 1 auf der Rückseite des Gerätes können nicht gleichzeitig verwendet werden. Ebenso können Monitoranschluss 2 sowie [8] HDMI-Monitoranschluss 2 nicht gleichzeitig verwendet werden.

[13] **Audioausgangsanschlüsse (L und R)**

Geben Sie über diese Anschlüsse ein Audiosignal an Peripherie-Audiogeräte aus.

[14] **Stromversorgungsanschluss**

Schließen Sie hier das Netzkabel an.

[15] **Eingangsanschluss für analoges Kamerakabel**

Schließen Sie hier analoge Kameras über das Kabel für analoge Kameraeingangssignale an.
Das NSR-1050H ist standardmäßig mit diesem Anschluss ausgerüstet. Beim NSR-1200/1100 ist eine (optionale) NSBK-A16-Erweiterung erforderlich.

Referenzdaten für die Installation

Stromverbrauch und Einschaltstrom

Modell	Eingangsspannung (~)	Volllast	Einschaltstrom
NSR-1200	100 V	2,66 A	
	220 V	1,14 A	
NSR-1100	100 V	1,84 A	
	220 V	0,79 A	13 A
NSR-1050H	100 V	1,75 A	
	220 V	0,76 A	
NSRE-S200	100 V	0,79 A	
	220 V	0,34 A	

Speicherkapazität für gespeicherte Daten

Das NSR-1200/1100/1050H weist mit optionalem Erweiterungsspeicher folgende Speicherkapazitäten auf:

Modell	Speicherkapazität für gespeicherte Daten
NSR-1200	1.366 GB
NSR-1100	886 GB
NSR-1050H	443 GB
NSRE-S200	1.396 GB

* Die angegebenen Datenkapazitäten sind Näherungswerte auf Grundlage der folgenden Berechnung für 1 GB:
$1.024 \times 1.024 \times 1.024 = 1.073.740.000$ Byte

Aufnahmedauer-Übersicht

Server	Erweiterungsspeicher	Anzahl der Kameras	Codec (Größe)	Tage	Bitrate	Bildfrequenz
NSR-1050H	0 Einheiten	8	MPEG4 (VGA)	10	512 kb/s	10,00 fps
NSR-1100	0 Einheiten	16	MPEG4 (VGA)	10	512 kb/s	10,00 fps
NSR-1200	0 Einheiten	16	MPEG4 (VGA)	16	512 kb/s	10,00 fps
NSR-1200	7 Einheiten	16	MPEG4 (VGA)	60	1.024 kb/s	20,00 fps

Server	Erweiterungsspeicher	Anzahl der Kameras	Codec (Größe)	Tage	Qualität	Bildfrequenz
NSR-1050H	0 Einheiten	4	JPEG (VGA)	4	Ebene 5	10,00 fps
NSR-1100	0 Einheiten	4	JPEG (VGA)	10	Ebene 5	8,00 fps
NSR-1200	0 Einheiten	16	JPEG (VGA)	30	Ebene 5	1,00 fps
NSR-1200	7 Einheiten	16	JPEG (VGA)	30	Ebene 5	9,00 fps

Anzahl der Kameras

Maximale Anzahl von Kameras

Modell	Maximale Anzahl von Kameras
NSR-1200	64
NSR-1100	32
NSR-1050H	20

Maximale Anzahl analoger Kameras (in Gesamtzahl der Kameras enthalten)

Modell	Maximale Anzahl analoger Kameras
NSR-1200	16 (mit optionalem NSBK-A16)
NSR-1100	16 (mit optionalem NSBK-A16)
NSR-1050H	16

Maximale Anzahl von Megapixel-Kameras (in Gesamtzahl der Kameras enthalten)

Modell	Maximale Anzahl von Kameras
NSR-1200	8
NSR-1100	4
NSR-1050H	4

Beispiel) NSR-1050H (maximale Anzahl von Kameras: 20)
IP-Kameras: 12
IP-Kameras (Megapixel):4
Analoge Kameras: 4

Vorbereitungsschritte

Schritt 1: Installation (Seite 159)

↓

Schritt 2: Anschlüsse (Seite 162)
Die einzelnen Geräte an die Einheit anschließen.

↓

Schritt 3: Einstellungen (Seite 167)

Gerät einschalten.

↓

Ersteinstellungen mit Hilfe des Setup-Assistenten konfigurieren.

↓

Anmelden.

↓

Konfiguration der Grundeinstellungen.

| Kameras automatisch registrieren. | Zu registrierende Kameras auswählen. |

| Aufzeichnung konfigurieren. | Geplante Aufzeichnung konfigurieren. |

↓

**Schritt 4: Überprüfen der Funktion (Seite 174)**

↓

Wenn eine erweiterte Konfiguration erforderlich ist
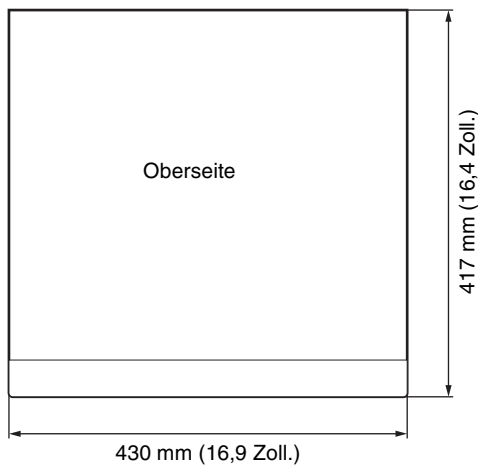Siehe Benutzerhandbuch (PDF-Datei).

Schritt 1: Installation

Stellen Sie vor der Installation des Gerätes sicher, dass der Aufstellungsort genügend Platz bietet und stabil genug ist, um das das Gerät zu tragen.
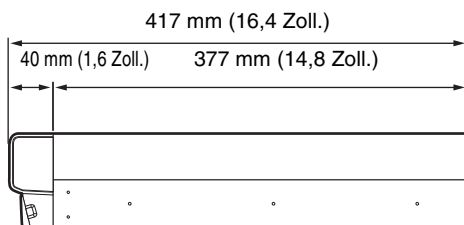Das NSR-1200 wiegt ca. 13.5 kg (29,8 lb.), das NSR-1100 wiegt ca. 12 kg (26,7 lb.) und das NSR-1050H wiegt ca. 11.5 kg (25,4 lb.). Das Gerät besitzt folgende Abmessungen.
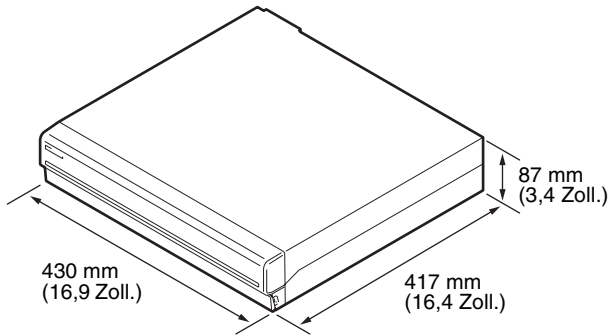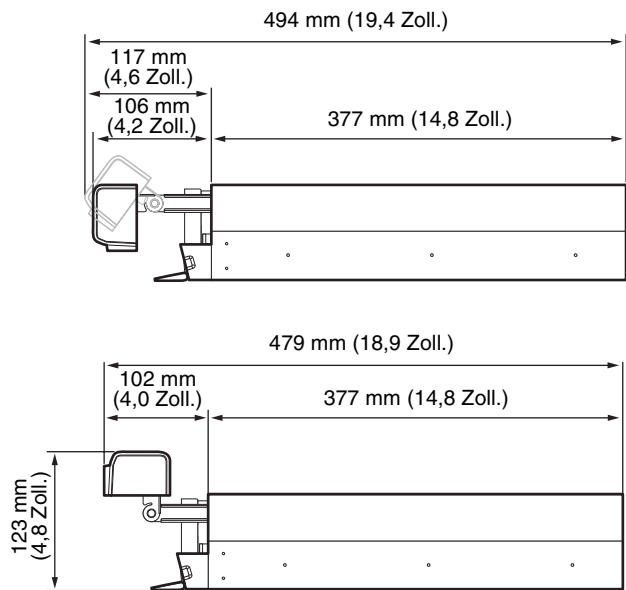
Oberseite

Bei geschlossener Frontblende

Bei geöffneter Frontblende

Mit Hilfe des optionalen Rack-Montagesatzes können Sie das Gerät in einem Rack installieren.

Installation ohne Rack

Bringen Sie die mitgelieferten Gummifüße am Recorder an.
Stellen Sie den Recorder senkrecht, so dass die Unterseite sichtbar ist. Kleben Sie dann wie nachfolgend abgebildet die Gummifüße an die Unterseite des Recorders.

Unterseite des Geräts
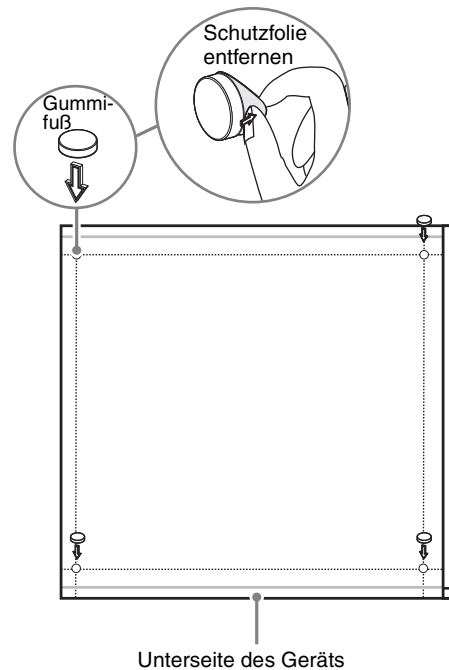
Installation im Rack

Bei Einbau des Geräts der NSR in ein Rack ist das wahlweise erhältliche Rack-Montagekit (wird separat verkauft) zu verwenden.

Warnung

- Verwenden Sie für den NSR ausschließlich das optional erhältliche Rack-Montagekit (wird separat verkauft). Die Verwendung von anderem Material ist gefährlich und kann zu Bränden, elektrischen Schlägen oder Verletzungen führen.
- Wenn Sie den NSR in einem Rack montieren, stellen Sie keine schweren Gegenstände auf den Recorder.
- Wir empfehlen, vor der Montage des NSR in einem Rack die Montageposition mit einem Filzschreiber zu kennzeichnen. Wird der NSR im Rack nicht horizontal montiert, kann dies zu Fehlfunktionen führen.
- Das Rack-Montagekit können Sie über Ihren Fachhändler bestellen.

Herausziehen der inneren Schienen

Ziehen Sie die inneren Schienen der Schienenbaugruppen heraus.

1 Ziehen Sie dabei aus einer Baugruppe die innere Schiene so weit wie möglich heraus.
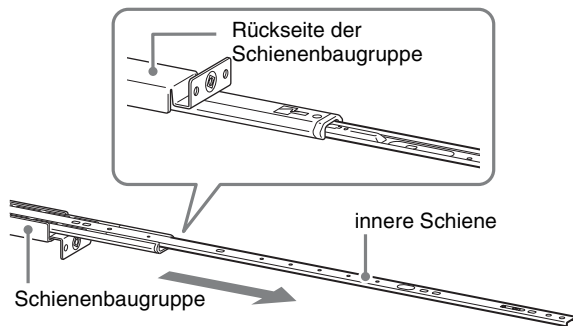
2 Drehen Sie die Schienenbaugruppe um. Ziehen Sie an der grünen Lasche, um die Sperre zu entriegeln, und ziehen Sie die innere Schiene ganz heraus.
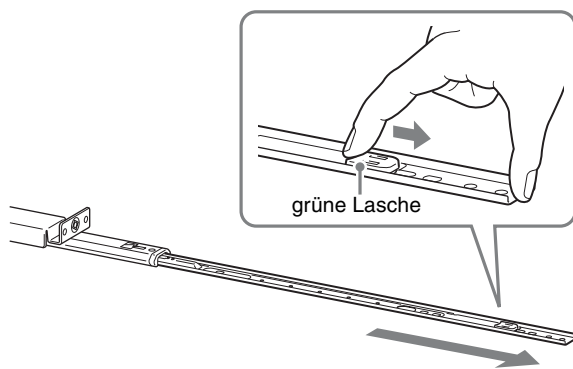
**3** Wiederholen Sie diesen Vorgang mit der anderen Schienenbaugruppe.

Hinweis

Die innere Schiene wird am NSR montiert, die Schienenbaugruppe jedoch im Rack.

Vorbereiten des NSR

Verwenden Sie die mitgelieferten Verbinder und Schrauben, um die innere Schiene am NSR anzubringen.

1 Bringen Sie mit Hilfe der mitgelieferten Flachkopfschraube die Montagewinkel an der Vorderseite der Seitenwand an.
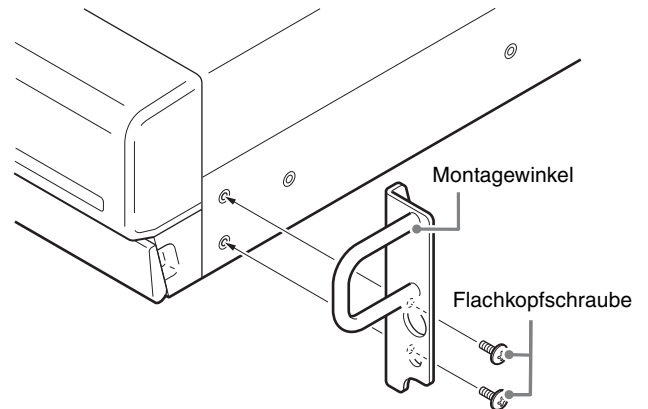
2 Verwenden Sie die restlichen Rundkopfschrauben zum Anbringen der Schienen am NSR (siehe Abbildung).
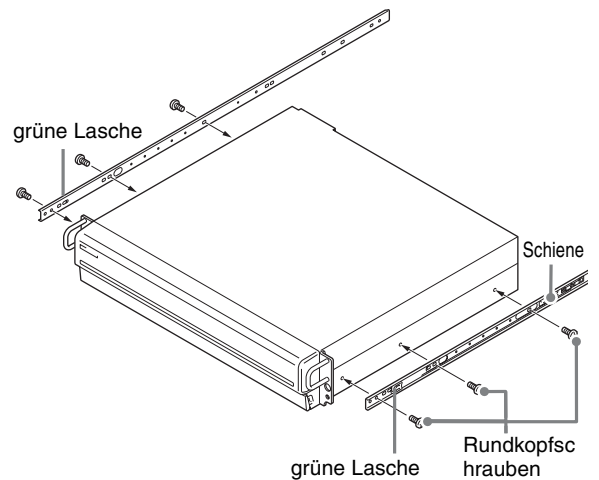
Vorsicht

Verwenden Sie nur die im Lieferumfang enthaltenen Schrauben, um Beschädigungen des Gerätes zu vermeiden. Befestigen Sie die Schienen mit den beiliegenden Schrauben.

Vorbereiten des Racks

Installieren Sie die Schienen im Rack.

1 Legen Sie die Montageposition der Schienen im Rack vorher fest.
Wir empfehlen, die Position mit einem Filzschreiber zu kennzeichnen.
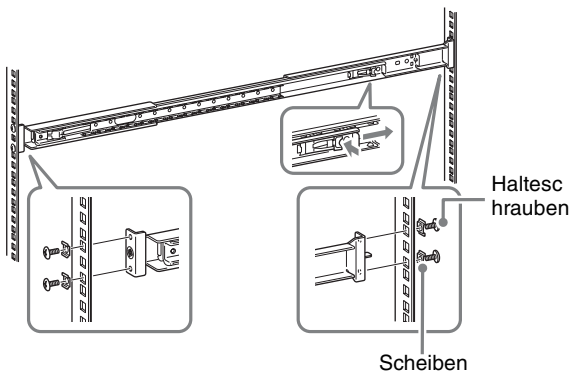
Vorsicht

Wenn die Schienen auf unterschiedlicher Höhe montiert werden, kann dies zu Fehlfunktionen des NSR führen.

2 Installieren Sie die Schienen im Rack.
(1) Passen Sie die Länge der Schienen der Tiefe des Racks an.
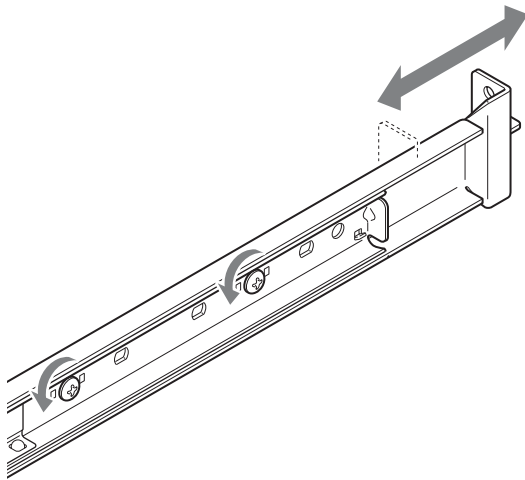
(2) Sichern Sie mit Hilfe der mitgelieferten Halteschrauben und Scheiben beide Enden der Schienen im Rack.

Haltesc hrauben

Scheiben

Montieren des NSR im Rack

Setzen Sie den NSR in das Rack ein, und sichern Sie ihn.
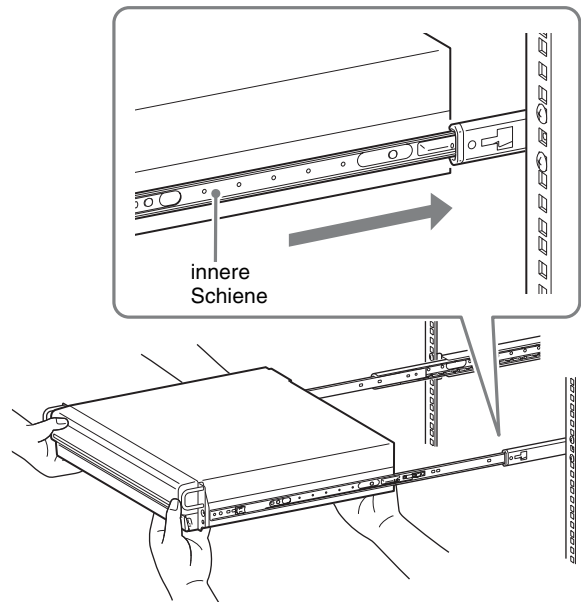
Vorsicht

Ziehen Sie zur Vermeidung von Verletzungsgefahren die Hilfe einer weiteren Person heran, wenn Sie das Gerät bewegen.
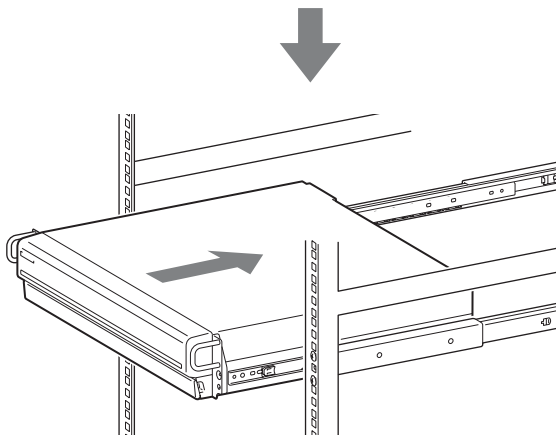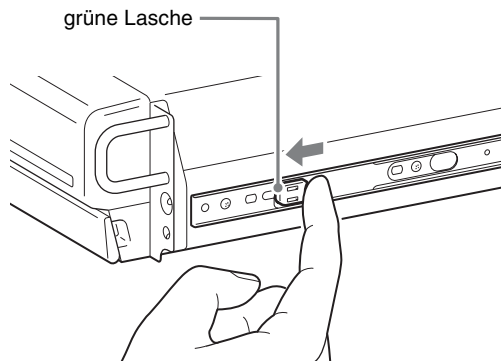
**1** Ziehen Sie die Gleitschienen der Schienenbaugruppen heraus.
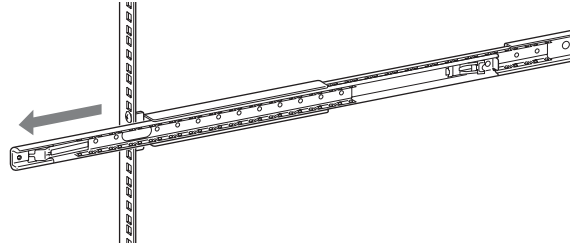
2 Heben Sie den NSR an, führen Sie die inneren Schienen in die Gleitschienen ein (weiß), und schieben Sie die Baugruppe dann bis zum Anschlag ein.

innere Schiene

3 Geben Sie die Verriegelung frei, indem Sie die grüne Lasche ziehen, und schieben Sie den NSR so weit wie möglich hinein.

grüne Lasche

4 Sichern Sie den NSR mit Hilfe der mitgelieferten Rundkopfschrauben und Scheiben am Rack.

Rundkopfschraube
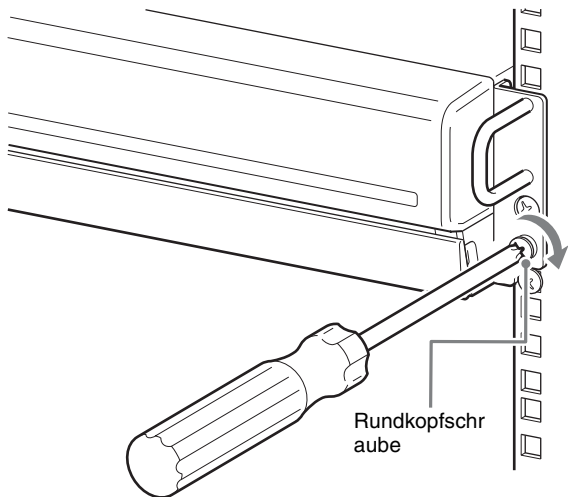
Installieren der optionales Zubehör

Über der Installation von NSRE-S200, beziehen Sie sich bitte auf das Handbuch, das an NSRE-S200 befestigt wird. Weitere Informationen zu optionalen NSBK-A16-Erweiterungen erhalten Sie bei Ihrem Sony-Händler.

Schritt 2: Anschlüsse

Schließen Sie die einzelnen Geräte an die Einheit an.

Anschließen des Monitors

Wenn ein Monitor angeschlossen wird, ist dieser an den analogen RGB-Monitoranschluss 1 oder den HDMI-Monitoranschluss 1 anzuschließen.
Wenn ein zweiter Monitor angeschlossen wird, wird dieser an den analogen RGB-Monitoranschluss 2 oder den HDMI-Monitoranschluss 2 angeschlossen.
Ausführliche Informationen hierzu finden Sie im Abschnitt „Beispiele für den Anschluss von Monitoren" (Seite 176).

Beispiel) Anschließen an die Monitoranschlüsse auf der Rückseite

Monitor 1
Monitoranschluss 1

Monitor 1
Monitor 2
Monitoranschluss 1   Monitoranschluss 2
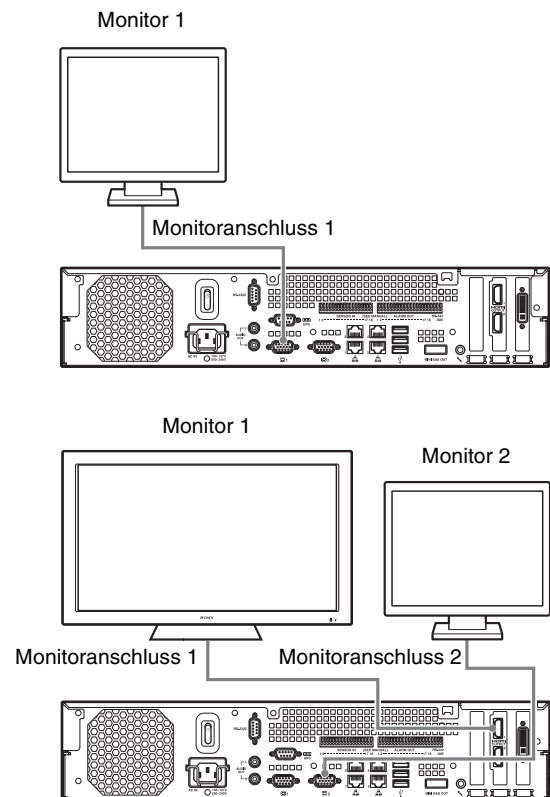
Während des Betriebs empfohlene Anschlussverteilung

| Monitor		Zu verwendende Anschlüsse			
		HDMI-Monitoranschluss 1	HDMI-Monitoranschluss 2	Analoger RGB-Monitoranschluss 1	Analoger RGB-Monitoranschluss 2
Ein Monitor	HDMI-Monitor	○	–	–	–
	Analoger RGB-Monitor	–	–	○	–
Zwei Monitore	HDMI-Monitor × 2	○	○	–	–
	Analoger RGB-Monitor × 2	–	–	○	○
	HDMI-Monitor und analoger RGB-Monitor	○	–	–	○
		–	○	○	–

Hinweise

- Das Gerät verfügt über drei Monitoranschlüsse mit der Beschriftung „1" (analog RGB ×2; HDMI ×1) und zwei Monitoranschlüsse mit der Beschriftung „2" (analog RGB ×1; HDMI ×1). Es können jedoch nicht mehrere Anschlüsse mit derselben Beschriftung gleichzeitig verwendet werden.
- Schalten Sie das Gerät nicht ein, wenn Monitore am analogen RGB-Monitoranschluss 1 auf der Vorderseite und der Rückseite des Geräts angeschlossen sind.
- Wenn das Gerät mit nur einem analogen RGB-Monitor betrieben wird, schließen Sie den Monitor nicht an den analogen RGB-Monitoranschluss 1 auf der Vorderseite des Geräts an, während das Gerät eingeschaltet ist.
- Wenn zwei analoge RGB-Monitore angeschlossen werden, verwenden Sie keine HDMI-Monitor-Anschlüsse.
- Wenn HDMI-Monitore verwendet werden, schließen Sie den HDMI-Monitor an und schalten Sie ihn ein, ehe Sie das Gerät einschalten.
- Beachten Sie bei der Verwendung des analogen RGB-Monitoranschlusses 1 auf der Vorderseite des Geräts die folgenden Einschränkungen.
  - Schließen Sie keine Monitore an den HDMI-Monitoranschluss 1 an.
  - Schließen Sie keinen Monitor an den analogen RGB-Monitoranschluss 1 auf der Vorderseite und der Rückseite des Geräts an, während das Gerät eingeschaltet ist. Wenn beide Anschlüsse verwendet werden, werden die Monitore nicht erkannt.
- Wenn Monitore über einen Monitorswitch angeschlossen werden, werden die Bilder unter Umständen nicht immer angezeigt. Wir empfehlen, die Monitore direkt an das Gerät anzuschließen.

Anschließen von Tastatur, Maus und Fernbedienung.

Schließen Sie die Geräte an die USB-Anschlüsse an der Vorderseite und Rückseite des Geräts an.

Beispiel) Anschließen der Geräte an die USB-Anschlüsse auf der Rückseite des Geräts

Maus

Tastatur
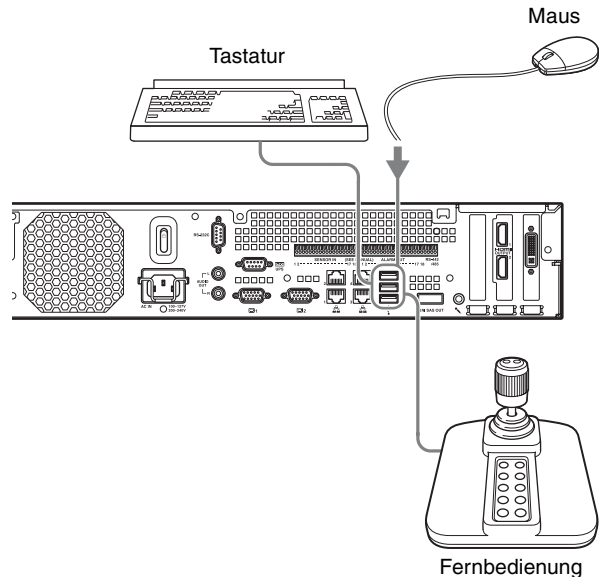
Fernbedienung

Hinweise

- Das Gerät unterstützt IP Desktop USB-Controller von CH Products. Andere Fernbedienungen werden nicht unterstützt.
- Lesen Sie bei Verwendung von USB-Geräten zunächst den Absatz „Sicherheitshinweise für die Verwendung von USB-Geräten" (Seite 150) im oben stehenden Abschnitt "Sicherheitsmaßnahmen".

Anschließen des Netzkabels

Schließen Sie den Netzstecker an den Stromversorgungsanschluss an.
Verhindern Sie durch Befestigen der Sicherungsklammer das Herausrutschen des Netzkabels.
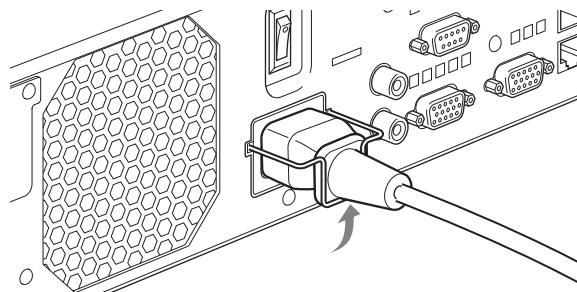
- Lesen Sie vor dem Installieren des Gerätes den Abschnitt „Wichtige Installationsinformationen" (Seite 149). Wenn das Gerät in Kombination mit mehreren NSR-Einheiten oder einem optionalen NSRE-S200 verwendet wird, ist eine ausreichende Stromversorgung sicherzustellen.
- Informationen über Stromverbrauch und Einschaltstrom der Geräte NSR-1200/1100/1050H und NSRE-S200 finden Sie unter „Referenzdaten für die Installation" (Seite 157).

Anschließen an ein Netzwerk

Schließen Sie das System folgendermaßen an das Netzwerk an.
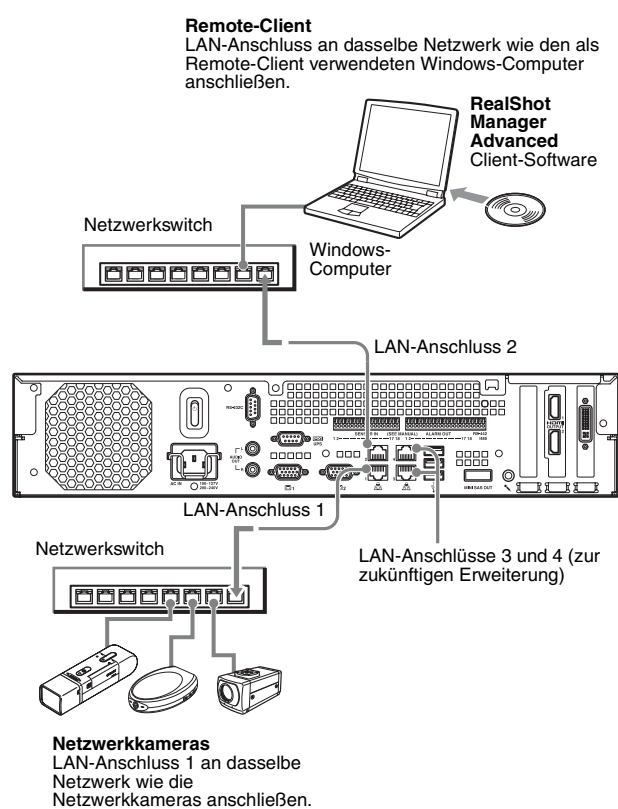
Remote-Client
LAN-Anschluss an dasselbe Netzwerk wie den als Remote-Client verwendeten Windows-Computer anschließen.

RealShot Manager Advanced Client-Software

Netzwerkswitch

Windows-Computer

LAN-Anschluss 2

LAN-Anschluss 1

Netzwerkswitch

LAN-Anschlüsse 3 und 4 (zur zukünftigen Erweiterung)

Netzwerkkameras
LAN-Anschluss 1 an dasselbe Netzwerk wie die Netzwerkkameras anschließen.

Anschlüsse an Remote-Clients

Wenn ein Remote-Client erforderlich ist, können Sie das im Lieferumfang dieses Geräts enthaltene RealShot Manager Advanced-Client-Software verwenden.

- Verwenden Sie die im Lieferumfang dieses Geräts enthaltene Version von RealShot Manager Advanced. Informationen zum Herunterladen des Installationsprogramms für RealShot Manager Advanced finden Sie im Abschnitt „Herunterladen von auf dem NSR gespeicherten Dateien" (Seite 153). Sie können das Installationsprogramm für die aktuelle Version von RealShot Manager Advanced auch von der folgenden URL-Adresse herunterladen.

http://www.sony.co.jp/net/Products/RSMAd/license_form.html
Ausführliche Informationen über die Installation und das Herstellen der Verbindung zum NSR finden Sie im RealShot Manager Advanced Installationshandbuch (PDF-Datei).

- RealShot Manager Advanced-Client-Software ist auf Windows-Computern lauffähig. Ausführliche Informationen über empfohlene Systemspezifikationen finden Sie in den im Installations-Archiv für RealShot Manager Advanced Client-Software enthaltenen Release-Hinweisen.
- Wenn RealShot Manager Advanced als Fernbedienung für das NSR verwendet werden soll, wählen Sie während Installation von RealShot Manager Advanced die Option [Client].
- Verwenden Sie zum Herstellen der Verbindung zum lokalen Netzwerk des Benutzers den LAN-Anschluss 2.
- Ausführliche Informationen über die NSR-Einstellungen bei Verwendung der RealShot Manager Advanced-Client-Software finden Sie im Abschnitt „Konfigurationen für die Verwendung von RealShot Manager Advanced Controller" (Seite 173).

LAN-Anschlüsse 3 und 4 (zur zukünftigen Erweiterung)

Da die LAN-Anschlüsse 3 und 4 sind aus Gründen der Netzwerk-Redundanz durch Channel-Bonding gekoppelt sind, kann beiden Anschlüssen nur eine IP-Adresse zugewiesen werden. Schließen Sie LAN-Anschlüsse 3 und 4 an denselben Netzwerk-Switch an. Wenn LAN-Anschlüsse 3 und 4 an den Netzwerk-Switch angeschlossen sind, ist die Datenkommunikation nur für einen der zwei Anschlüsse aktiviert.
Das aktive Netzwerk wird beim Start bestimmt. Sie können nicht angeben, welches Netzwerk verwendet werden soll. Wenn das aktive Netzwerk und damit die Datenkommunikation ausfällt, wird sie über das andere Netzwerk wieder hergestellt.
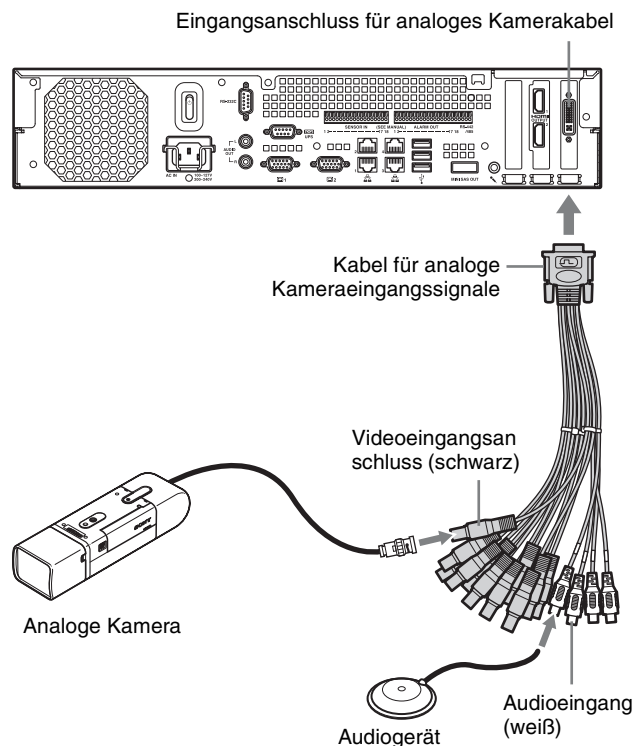
- Für das Gerät gelten folgende Standard-IP-Adressen.
  - LAN-Anschluss 1: 192.168.0.1
  - LAN-Anschluss 2: 192.168.1.1
  - LAN-Anschluss 3: 192.168.2.1
  - LAN-Anschluss 4: 192.168.2.1
- Wenn Sie die Standard-IP-Adressen ändern möchten, beachten Sie die entsprechenden Hinweise im Benutzerhandbuch (PDF-Datei).
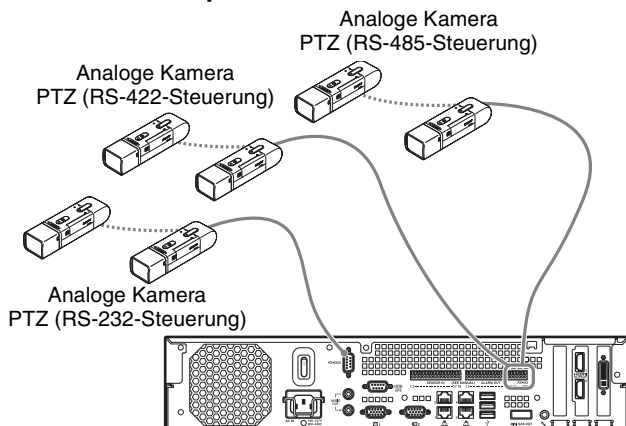
Anschließen einer analogen Kamera

Schließen Sie die analoge Kamera mit dem im Lieferumfang enthaltenen Kabel für analoge Kameraeingangssignale an.

Um die Funktionen Schwenken, Neigung und Zoom zu steuern, schließen Sie an den RS-232C-Anschluss oder den RS-422/485-Anschluss (die vier Kontakte ganz rechts am Alarmausgangsanschluss) ein Kamerasteuerungskabel an. (Die Anschlüsse RS-232C, RS-422 und RS-485 können nicht gleichzeitig verwendet werden.)
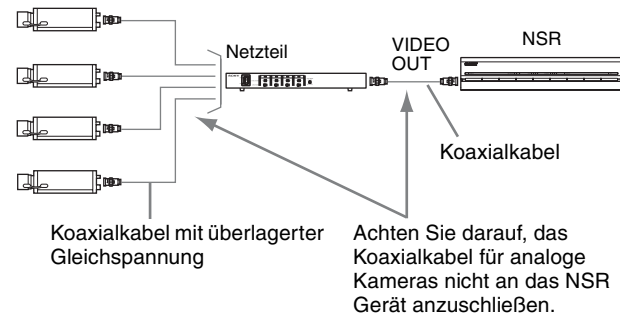
Eingangsanschluss für analoges Kamerakabel

Kabel für analoge Kameraeingangssignale

Videoeingangsanschluss (schwarz)

Analoge Kamera

Audiogerät

Audioeingang (weiß)

Anschlussbeispiele

Analoge Kamera PTZ (RS-485-Steuerung)

Analoge Kamera PTZ (RS-422-Steuerung)

Analoge Kamera PTZ (RS-232-Steuerung)

Bei der Verwendung von Kameras und Stromversorgungseinheiten, die über das Video-Koaxialkabel Gleichspannung übertragen, ist die Verkabelung mit Vorsicht vorzunehmen. Wenn das Kamerakabel, über das die Gleichspannung übertragen wird, mit dem NSR verbunden ist, können Funktionsstörungen auftreten.

Analoge -Kameras

Netzteil

VIDEO OUT

NSR

Koaxialkabel

Koaxialkabel mit überlagerter Gleichspannung

Achten Sie darauf, das Koaxialkabel für analoge Kameras nicht an das NSR Gerät anzuschließen.

Hinweise

- Das NSR-1050H ist standardmäßig mit dem Kabeleingang der analogen Kamera ausgerüstet. Beim NSR-1200/1100 ist eine (optionale) NSBK-A16-Erweiterung erforderlich.
- Wenn Sie die Funktionen Schwenken, Neigung und Zoom verwenden, müssen Sie mit den Dip-Schaltern oder Menüs für jede einzelne Kamera eine eindeutige Steuerungsnummer konfigurieren. Informationen zum Konfigurieren von Steuerungsnummern entnehmen Sie der Bedienungsanleitung der analogen Kamera.
- Informationen über die Kontaktbelegung des RS-422/485-Anschlusses finden Sie im Abschnitt „Stiftzuweisung des E/A-Anschlusses" (Seite 179).

Anschließen eines NSRE-S200

Verbinden Sie das NSR-1200/1100/1050H mit Hilfe des im Lieferumfang des optionalen NSRE-S200 enthaltenen Mini-SAS-Kabels folgendermaßen mit dem NSRE-S200.

Sie können bis zu sieben NSRE-S200-Einheiten an das NSR-1200/1100/1050H anschließen.

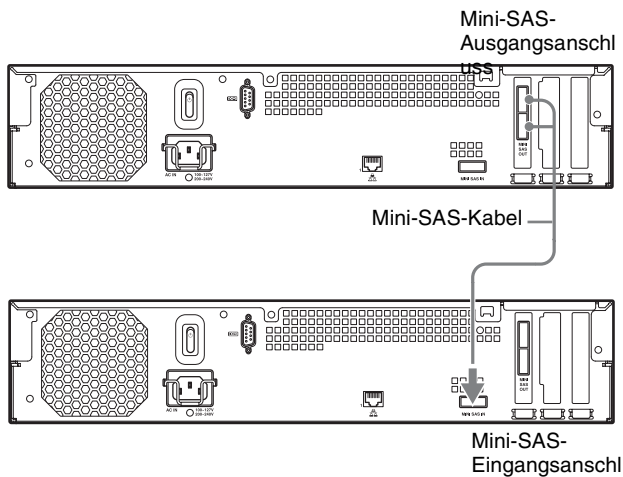Einzelheiten zu den Anschlusskonfigurationen siehe „NSRE-S200-Anschlussbeispiel" (Seite 177).

Hinweis

Verbinden Sie das NSR-1200/1100/1050H und das NSRE-S200, ehe Sie das Gerät einschalten.

Verbinden des NSR-1200/1100/1050H mit dem NSRE-S200

Mini-SAS-Kabel — Mini-SAS-Ausgangsanschluss

Mini-SAS-Eingangsansch
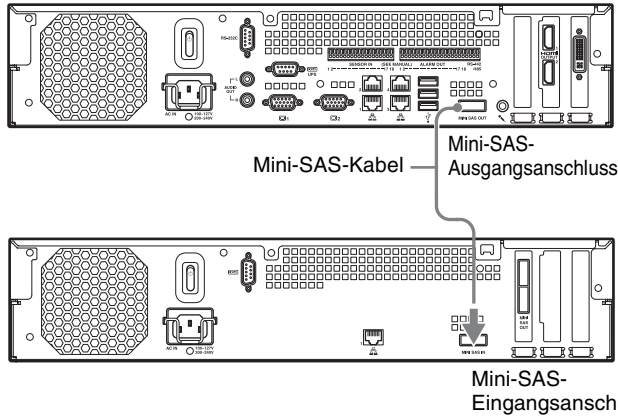
Anschließen zweier NSRE-S200-Einheiten

Mini-SAS-Ausgangsanschluss

Mini-SAS-Kabel

Mini-SAS-Eingangsanschl

Hinweis

Der obere und der untere Mini-SAS-Ausgangsanschluss am NSRE-S200 sind von der Funktion her identisch.

Anschließen weiterer Geräte

Anschließen von Sensoreingängen und Alarmausgängen

Schließen Sie die Kabel an den Sensor-Eingangsanschluss und den Alarmausgangsanschluss an.
Ausführliche Informationen hierzu finden Sie im Abschnitt „E/A-Anschluss" (Seite 179).

Anschließen einer unterbrechungsfreien Stromversorgung (USV)

1 Schließen Sie die USV an die Steckdose an.

2 Schließen Sie das NSR mit dem im Lieferumfang enthaltenen Netzkabel an die USV an.

3 Schließen Sie das NSR mit dem hierzu vorgesehenen seriellen Kabel über den seriellen Anschluss auf der Rückseite des NSR an die USV an.

Netzkabel — Serielles Kabel — Zur Stromquelle

USV
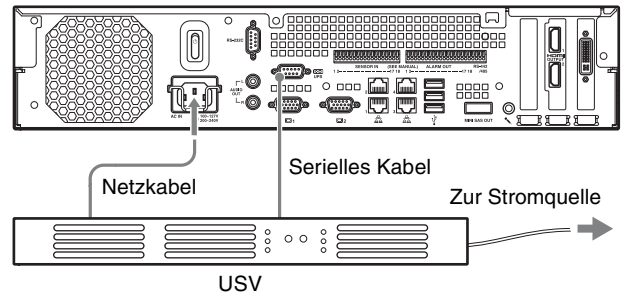
Anschließen eines Audioausgabegeräts

Schließen Sie das Audioausgabegerät an die Audioausgangsanschlüsse (L und R) an.

Audiokabel (L und R)
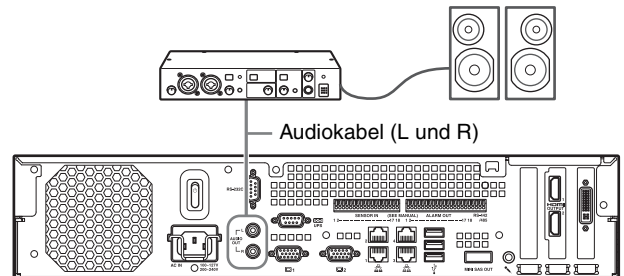
Schritt 3: Einstellungen

Dieser Abschnitt enthält Informationen zum Einschalten des Geräts und allgemeine Erklärungen zum Registrieren von Kameras und anderen Geräten.

Einschalten des Geräts

Sie können das Gerät durch Drücken des Netzschalters auf der Vorderseite oder Rückseite des Geräts einschalten. Wenn ein optionales NSRE-S200 angeschlossen ist, warten Sie zunächst, bis das NSRE-S200 in Betrieb ist, und schalten Sie dann dieses Gerät ein.
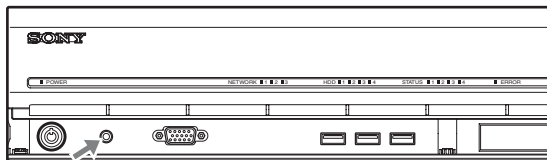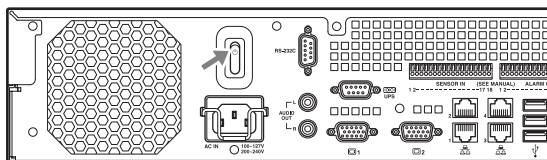
Achtung

Berücksichtigen Sie den Einschaltstrom beim Konfigurieren der Netzanschlüsse für Systeme mit mehreren NSR-Einheiten oder einem NSRE-S200-Gerät. Beispiele zum Einschaltstrom finden Sie im Abschnitt „Referenzdaten für die Installation" (Seite 157).

Netzschalter auf der Vorderseite

Netzschalter auf der Rückseite

Wenn das Gerät eingeschaltet ist, leuchtet die Power-LED an der Frontblende.

Beim ersten Start des Geräts wird automatisch der Konfigurationsassistent aufgerufen.
Fahren Sie mit dem folgenden Abschnitt „Konfigurieren der Ersteinstellungen mit Hilfe des Setup-Assistenten" fort.

Hinweise

- Nach dem Einschalten des Geräts ist unter Umständen etwa zwei Sekunden lang ein lautes Lüftergeräusch zu hören. Dies ist keine Fehlfunktion.
- Wenn das Gerät über die Systemfunktionen abgeschaltet wurde, schalten Sie es durch Drücken des Netzschalters auf der Vorderseite oder der Rückseite des Geräts ein.
- Wenn eine Abschaltung erzwungen wurde, kann der Start des Geräts unter Umständen länger dauern.

Abschalten des Geräts

Klicken Sie nach der Anmeldung am NSR im oberen Bereich des Bildschirms „Haupt" auf [icon], und wählen Sie im angezeigten Menü die Option [Herunterfahren] aus.

Hinweis

Normalerweise schaltet sich das Gerät nach einigen Minuten ab. Wenn sich das Gerät nicht nach einigen Minuten abschaltet, erzwingen Sie die Abschaltung, indem Sie den Netzschalter auf der Rückseite des Geräts mindestens 5 Sekunden lang in die Position ⏻ drücken.

Konfigurieren der Ersteinstellungen mit Hilfe des Setup-Assistenten

Dieser Abschnitt erklärt den allgemeinen Ablauf des Setup-Assistenten. Ausführlichere Informationen zu den Einstellungen finden Sie im Abschnitt „Ändern der Systemeinstellungen" im Benutzerhandbuch (PDF-Datei).

Der Setup-Assistent wird beim ersten Einschalten des Geräts automatisch gestartet. Sie können dieselben Einstellungen später konfigurieren, indem Sie vom Anmeldebildschirm in das Verwaltungsmenü und dann zum Einrichtungsmenü wechseln.
Details dazu finden Sie in „Zugreifen auf das Einrichtungsmenü vom Anmeldebildschirm aus" (Seite 171).

Vorsicht

Einige Texte werden auf dem Bildschirm auf Englisch, in dieser Bedienungsanleitung aber auf Deutsch angezeigt.

Wenn Sie das Gerät einschalten, wird der folgende Bildschirm angezeigt und der Setup-Assistent gestartet.

↓
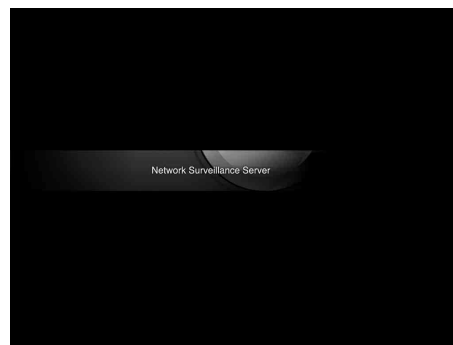
Klicken Sie auf [Next].

↓

Lesen Sie die Lizenzvereinbarung sorgfältig durch, klicken Sie auf [Accept] und dann auf [Next].

↓
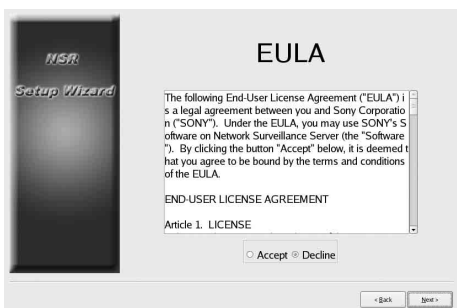
Wählen Sie eine Anzeigesprache aus, und klicken Sie auf [Next].

↓

Wählen Sie eine Sprache für die Tastatur aus, und klicken Sie auf [Weiter].

↓

Wählen Sie eine Zeitzone aus, und klicken Sie auf [Weiter].

↓
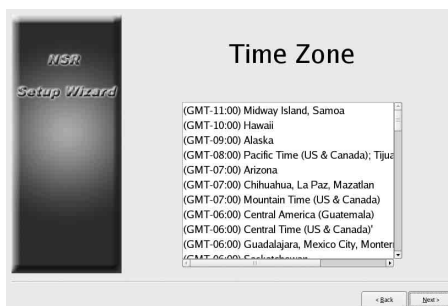
Stellen Sie Datum und Uhrzeit ein, und klicken Sie auf [Weiter].
• Wenn Sie das Kontrollkästchen [Enable NTP Server] aktivieren, dient das Gerät für die Datums- und Uhrzeitsynchronisierung als NTP-Server.
• Wenn Sie das Kontrollkästchen [Synchronize with NTP Server] aktivieren, können Sie Datum und Uhrzeit mit einem anderen NTP-Server synchronisieren.
• Wenn Datum und Uhrzeit nicht mit dem Windows-Server als NTP-Server synchronisiert werden können, können Sie das Kontrollkästchen [Synchronize with Windows Server] aktivieren, um die Synchronisierung mit dem Windows-NTP-Server zu erzwingen.

↓
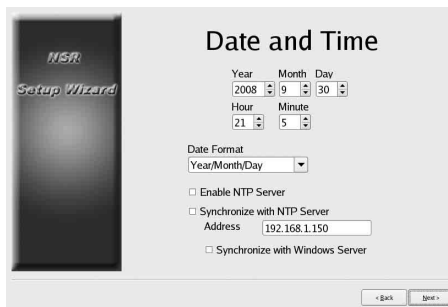
Stellen Sie für jeden Server die IP-Adresse ein, und klicken Sie auf [Weiter].

↓
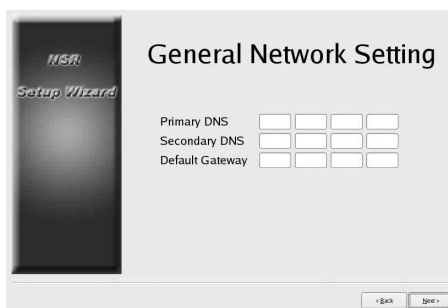
Stellen Sie die IP-Adresse für LAN-Anschluss 1 ein, und klicken Sie auf [Weiter].

↓

Stellen Sie die IP-Adresse für LAN-Anschluss 2 ein, und klicken Sie auf [Weiter].

↓

Stellen Sie die IP-Adresse für LAN-Anschluss 3 ein, und klicken Sie auf [Weiter].

↓

Nehmen Sie die Einstellungen für Monitor 1 vor, und klicken Sie auf [Weiter].
• Wenn Sie die Option [Auto] auswählen, werden der Typ des angeschlossenen Monitors und seine Auflösung erkannt und automatisch konfiguriert. Einzelheiten zu den unterstützten Auflösungen siehe „Systemanforderungen" (Seite 152).
• Wenn Sie zwei Monitore an das Gerät anschließen, wählen Sie das Kontrollkästchen [Dual Head].

↓

Wenn Sie einen zweiten Monitor anschließen, nehmen Sie die Einstellungen für Monitor 2 vor.
Wenn Sie die Einstellungen für den zweiten Monitor vorgenommen haben, starten Sie das Gerät bei angeschlossenem zweiten Monitor neu.

↓

Wählen Sie den zu verwendenden Audioanschluss aus, und klicken Sie auf [Weiter].

↓

Konfigurieren Sie die Partitionen für die interne Festplatte, und klicken Sie auf [Weiter].
Geben Sie die Anzahl der Partitionen an, und wählen Sie, welcher Prozentsatz der Gesamtkapazität den einzelnen Partitionen zugeordnet werden soll.

↓
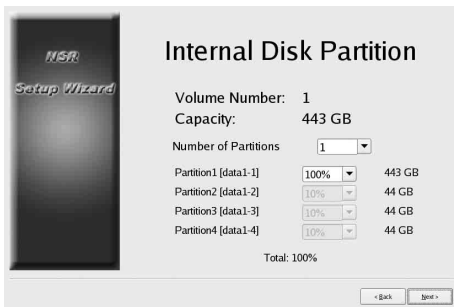
Stellen Sie den Servernamen ein, und klicken Sie auf [Weiter].

↓
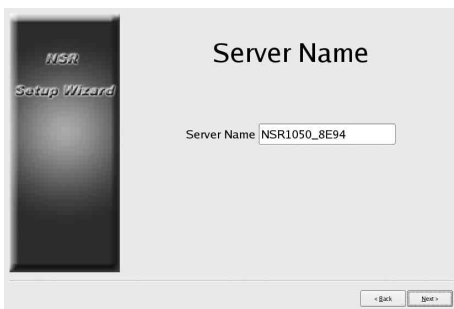
Konfigurieren Sie die Anschlusseinstellungen für die analogen Kameras, und klicken Sie auf [Weiter].
Wählen Sie den Standard der seriellen Schnittstelle, an die die gewünschte Kamera angeschlossen ist, und nehmen Sie die Einstellungen für Baudrate, Paritätsbits usw. vor.
(Dieser Bildschirm wird nur angezeigt, wenn ein NSR-1050H oder NSBK-A16 (optional) angeschlossen ist.)

↓
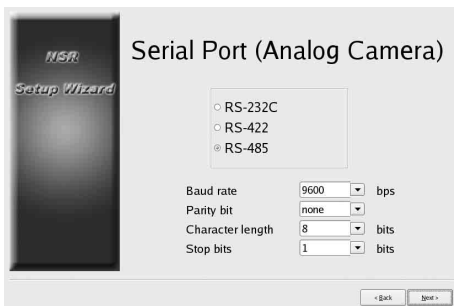
Wählen Sie das Videoformat für die anzuschließenden analogen Kameras aus, und klicken Sie auf [Weiter].
(Dieser Bildschirm wird nur angezeigt, wenn ein NSR-1050H oder NSBK-A16 (optional) angeschlossen ist.)

↓

Überprüfen Sie die Werte, und klicken Sie auf [Weiter].

↓

Wenn die Meldung zur Bestätigung des Neustarts angezeigt wird, klicken Sie auf [Fertigstellen].

↓
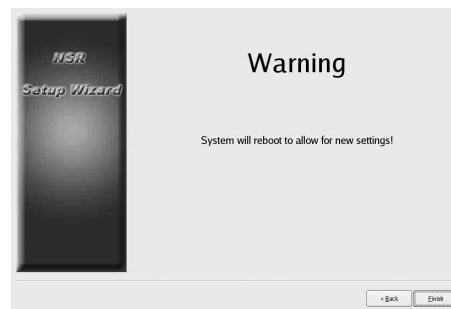
Das Gerät wird neu gestartet.

↓

Der Anmeldebildschirm wird angezeigt.
Fahren Sie mit dem folgenden Abschnitt „Anmelden" fort.

Zugreifen auf das Einrichtungsmenü vom Anmeldebildschirm aus

① Klicken Sie auf [Verwaltungsmenü].

↓

② Klicken Sie auf [Einrichtungsmenü].
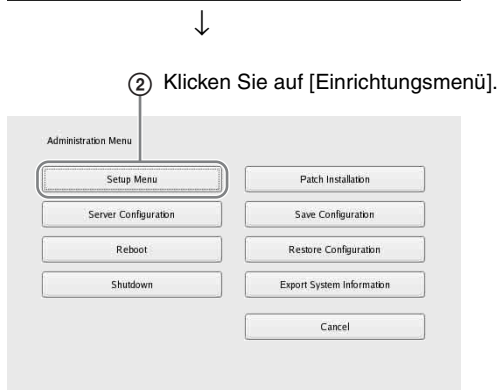
Anmelden

Geben Sie den Benutzernamen und das Kennwort ein, und klicken Sie auf [Anmelden].
Standardbenutzername:admin
Standardkennwort: admin

Nach der Anmeldung wird das Dialogfeld [Autom. Kameraregistrierung] angezeigt.
Fahren Sie mit dem folgenden Abschnitt „Konfigurieren der Grundeinstellungen" fort.

Konfigurieren der Grundeinstellungen

Dieser Abschnitt beschreibt, wie die Alarmaufzeichnung für automatisch erkannte Geräte registriert und konfiguriert wird. Eine Anleitung zum Registrieren sämtlicher automatisch erkannten Geräte in einem Arbeitsgang finden Sie im Installationshandbuch (separates Dokument).

Registrieren einer Kamera

Wählen Sie die Option [Fenster für Kamera-Mehrfachregistrierung öffnen] aus, und klicken Sie auf [OK].

↓

Geräte im selben Netzwerksegment werden automatisch erkannt.

↓

Aktivieren Sie die Kontrollkästchen der zu registrierenden Kameras, und klicken Sie auf [Registrierung].
Ausführlichere Informationen zu den Einstellungen finden Sie im Abschnitt „Registrieren von Geräten" im Benutzerhandbuch (PDF-Datei).

↓
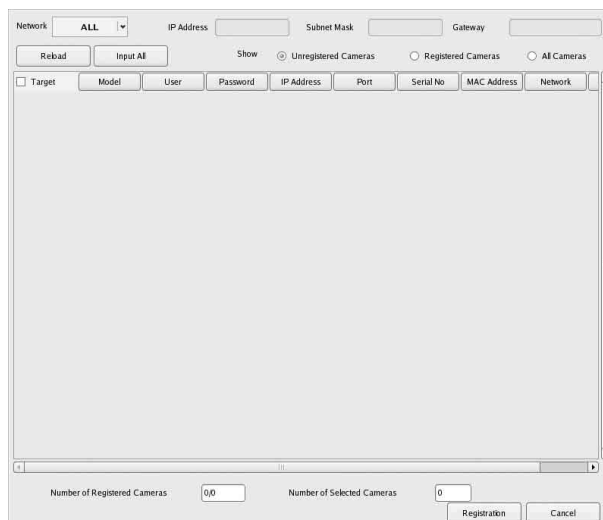
Die Kameras werden registriert.

↓
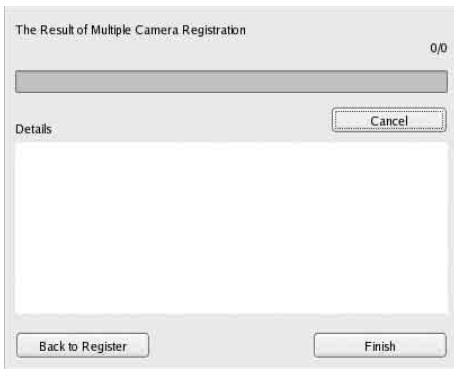
Konfigurieren der Alarmaufzeichnung

Wählen Sie [Automatische Konfiguration von Alarmaufzeichnungen], und klicken Sie auf [Weiter].

↓

Daraufhin wird die Bestätigungsmeldung angezeigt. Klicken Sie auf [Weiter].

↓

Überprüfen Sie die Werte, und klicken Sie auf [Fertig stellen].

↓

Die alarmgesteuerte Aufzeichnung wird gestartet.

Wenn die Konfiguration abgeschlossen ist, wird der Bildschirm [Haupt] angezeigt.
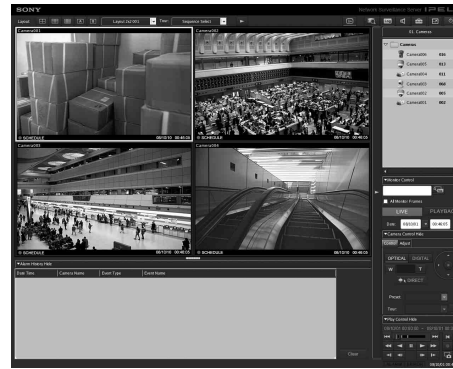
Nach dem Konfigurieren der Grundeinstellungen gelten für die einzelnen Optionen die folgenden Werte:

Einstellung	Geplante Aufzeichnung	Alarmgesteuerte Aufzeichnung
Bildformat	Maximale von der Kamera unterstützte Bildgröße.	
Codec	Codec mit Unterstützung für die maximale Bildgröße.(Bei Unterstützung durch JPEG und MPEG4 wird MPEG4 ausgewählt.)	
Bildfrequenz	JPEG: Abhängig von der Aufbewahrungsfrist der gespeicherten Daten. MPEG4: Abhängig von der Bitrate.	JPEG: 10 fps MPEG4: 10 fps
Qualität	50% Stufe 3 (Kameras mit 5 Stufeneinstellungen) Stufe 5 (Kameras mit 10 Stufeneinstellungen)	80% Stufe 5 (Kameras mit 5 Stufeneinstellungen) Stufe 8 (Kameras mit 10 Stufeneinstellungen)
Bitrate	Abhängig von der Aufbewahrungsfrist der gespeicherten Daten.	MPEG4: 1,5 Mbit/s
Auslöser für Aufzeichnung	–	VMD (Kamera) VMD (Recorder) JPEG: Standardmodus MPEG4: High-Performance-Modus
Speicherort für Daten	Gegenüber der vorhandenen Konfiguration nicht geändert.[1]	Gegenüber der vorhandenen Konfiguration nicht geändert.[1]
Audio	Deaktiviert	Deaktiviert
Überschreiben von Daten	Gegenüber der vorhandenen Konfiguration nicht geändert.	Gegenüber der vorhandenen Konfiguration nicht geändert.

Einstellung	Geplante Aufzeichnung	Alarmgesteuerte Aufzeichnung
Bereinigung	Daten, deren Aufbewahrungsfrist überschritten ist, werden gelöscht.	Gegenüber der vorhandenen Konfiguration nicht geändert.

1) Wenn der Benutzer keine Speicherort-Einstellungen für die Kamera konfiguriert hat, werden die weiteren Einstellungen auf der Grundlage der Kapazität der ersten Partition der internen Festplatte des Geräts berechnet. Wenn der Benutzer keine Speicherort-Einstellungen für die Kamera konfiguriert hat, werden die weiteren Einstellungen auf der Grundlage der Kapazität der ersten Partition der internen Festplatte des Geräts berechnet.

Achtung

- Wenn beim Ausführen der Funktion ,,automatische Aufzeichnung" bereits Einstellungen für die geplante Aufzeichnung und die Alarmaufzeichnung vorhanden sind, ersetzen die automatischen Konfigurationen die bisherigen Einstellungen.
- Wenn die Speicherorte für die Kameras geändert wurden, können Sie erneut die Grundeinstellungen konfigurieren, um die weiteren Einstellungen berechnen zu lassen. Die Einstellungen werden nicht automatisch neu berechnet.

Einstellungen, die individuelle Konfiguration erfordern

In den folgenden Fällen ist eine weiter gehende Konfiguration erforderlich:

Speicherort-Einstellungen

In der Standardkonfiguration werden die Daten auf der ersten Partition der internen Festplatte des Geräts gespeichert.
Informationen über das Speichern von Daten auf einer optionalen NSRE-S200-Einheit oder auf anderen Partitionen finden Sie im Benutzerhandbuch (PDF-Datei).

Zusammenstellen von Systemen, die mehrere NSR-Einheiten oder RealShot Manager Advanced Server enthalten

Wenn mehrere Server konfiguriert werden, ist eine individuelle Konfiguration erforderlich. Näheres finden Sie im Benutzerhandbuch (PDF-Datei).

Schwenken, Neigen und Zoom bei analogen Kameras verwenden

Konfigurieren Sie die Einstellungen für die Funktionen Schwenken, Neigen und Zoom bei analogen Kameras auf der Registerkarte [Steuerung] der Gerätekonfiguration entsprechend der folgenden Anleitung.
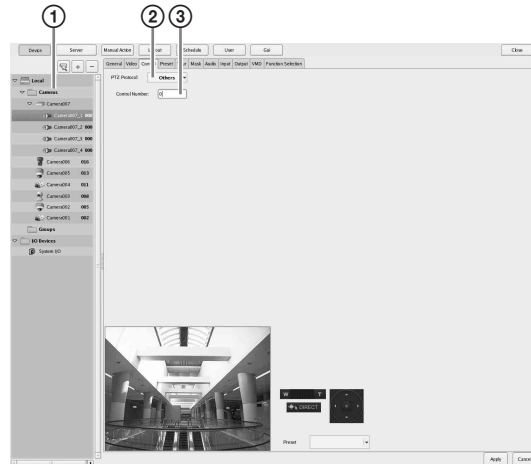
① Wählen Sie die analoge Kamera aus.
② Wählen Sie entsprechend den Einstellungen der analogen Kamera ein Protokoll aus.
③ Geben Sie an der ausgewählten analogen Kamera die konfigurierte Steuerungsnummer ein.

Hinweis

Um diese Einstellungen zu konfigurieren, müssen Sie zunächst in den „Serial Port"-Einstellungen des Setup-Assistenten den Übertragungsmodus konfigurieren.

Audio-Einstellungen für Kameras

In der Standardkonfiguration ist Audio deaktiviert. Informationen zum Aktivieren von Audio finden Sie im Benutzerhandbuch (PDF-Datei).

Konfigurationen für die Verwendung von RealShot Manager Advanced Controller

Konfigurieren Sie die folgenden Einstellungen auf der NSR-Einheit, die als Masterserver dienen soll. Weitere Informationen über die Einstellungen finden Sie im Benutzerhandbuch (PDF-Datei).

1 Konfigurieren Sie im Bildschirm Serverkonfiguration des Verwaltungsmenüs folgende Einstellungen.
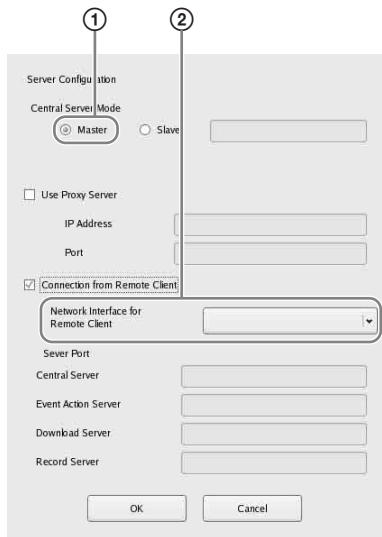
① Wählen Sie unter [Zentralservermodus] die Option [Master].
② Wählen Sie in [Netzwerkschnittstelle für fernen Client Anschluss] unter [Verbindung von fernem Client] die Netzwerkschnittstelle für die Verbindung aus.

2 Erstellen Sie einen Benutzer auf dem Masterserver. Klicken Sie im Bildschirm [Nutzer Konfiguration] auf ⊞ (Hinzufügen), und erstellen Sie einen Benutzer.
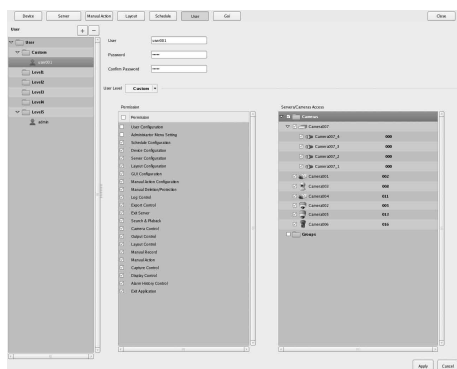
Schritt 4: Überprüfen der Funktion

Wenn die grundlegenden Konfigurationen abgeschlossen sind, stellen Sie sicher, dass im Bildschirm „HAUPT" Kamerabilder angezeigt werden und die dazugehörigen Bedienfunktionen funktionieren.

① Ändern Sie das Layout und zeigen Sie Bilder der registrierten Kameras an.
Ziehen Sie eine Kamera mit der Maus aus dem Kamerabereich auf ein Monitorfenster, um die Bilder dieser Kamera anzuzeigen.
② Klicken Sie auf ein Monitorfenster, um dieses zu aktivieren (hellblauer Rahmen), und steuern Sie auf der Registerkarte [Steuerung] des Kamerasteuerungsbereichs die Funktionen Schwenken, Neigung und Zoom.
③ Überprüfen Sie, ob ein Alarm ausgelöst wird, wenn Objekte sich vor einer Kamera bewegen.
Wenn die Alarmaufzeichnung mit Hilfe der grundlegenden Konfiguration eingerichtet wurde, ist das Monitorfenster mit einem roten Rahmen gekennzeichnet, und im Alarmverlauf auf der Unterseite des Bildschirms wird für jeden Alarm ein Eintrag angezeigt.
④ Informationen über die einzelnen Funktionen finden Sie im Überwachungsfenster-Benutzerhandbuch (separates Dokument).
⑤ Klicken Sie zum Wiedergeben von Aufzeichnungen auf [PLAYBACK].
Wenn Sie auf [PLAYBACK] klicken, werden die Bilder einer zuvor konfigurierten Uhrzeit wiedergegeben (Schnellwiedergabe).
Wenn Sie ein Datum und eine Uhrzeit eingeben und auf [GO] klicken, werde die aufgezeichneten Bilder wiedergegeben.
⑥ Klicken Sie auf das Symbol [ERROR] unten rechts auf dem Bildschirm, um zu überprüfen, ob Fehler aufgetreten sind.
Wenn nach dem Klicken auf das Symbol [ERROR]

das Systemprotokoll angezeigt wird, können Sie hier die gegebenenfalls aufgetretenen Probleme einsehen.

Informationen über die Bedienung des Bildschirms „HAUPT" finden Sie im Überwachungsfenster-Benutzerhandbuch (separates Dokument) oder im Benutzerhandbuch (PDF-Datei).

Achtung

Wenn Sie ein USB-Gerät an das Gerät anschließen, kann unter Umständen die [ERROR]-LED unten rechts auf dem Bildschirm „HAUPT" leuchten. Dies zeigt an, dass das Gerät das angeschlossene USB-Gerät unter Umständen nicht unterstützt. Ausführliche Informationen hierüber finden Sie im Abschnitt „Sicherheitsmaßnahmen" (Seite 149) oder „Ein an den USB-Anschluss angeschlossenes externes Gerät funktioniert nicht." (Seite 181) im Abschnitt „Fehlersuche".

Verwenden von RealShot Manager Advanced als Remote-Client

Gehen Sie folgendermaßen vor, um die Funktionstüchtigkeit zu überprüfen.

1 Melden Sie sich bei RealShot Manager Advanced an.
- Geben Sie bei der Anmeldung den Server an. Geben Sie als Server-IP-Adresse Port „8082" an.
- Geben Sie die im Bildschirm [Serverkonfiguration] konfigurierten (page 174) Werte für [Benutzername] und [Kennwort] ein.
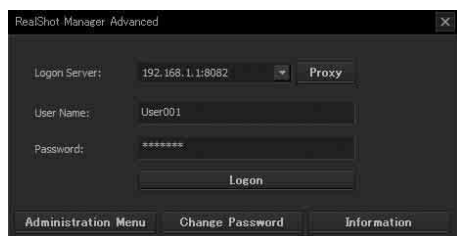
2 Weisen Sie im Hauptbildschirm von RealShot Manager Advanced Monitorfenstern Bilder von an das Gerät angeschlossenen Kameras zu.
Zum Zuweisen von Kameras stehen zwei Methoden zur Verfügung.
- Ziehen Sie eine an das Gerät angeschlossene Kamera mit der Maus aus dem Kamerabereich auf ein Monitorfenster.
- Klicken Sie auf ein Monitorfenster, um dieses auszuwählen, und doppelklicken Sie dann im Kamerabereich auf eine Kamera.

3 Überprüfen Sie, ob die Bilder der in Schritt 2 ausgewählten Kamera im Monitorfenster angezeigt werden.

Anschlussbeispiele

Beispiele für den Anschluss von Monitoren

Dieses Gerät unterstützt mehrere Kombinationen von Monitoranschlüssen. Beachten Sie die folgenden Anschlussbeispiele.

Hinweis

Sie können im Bildschirm [Audio] des Setup-Assistenten oder Einrichtungsmenüs festlegen, ob RCA- oder HDMI-Audiosignale ausgegeben werden sollen.

Beispiel 1) Betrieb mit zwei HDMI-Monitoren
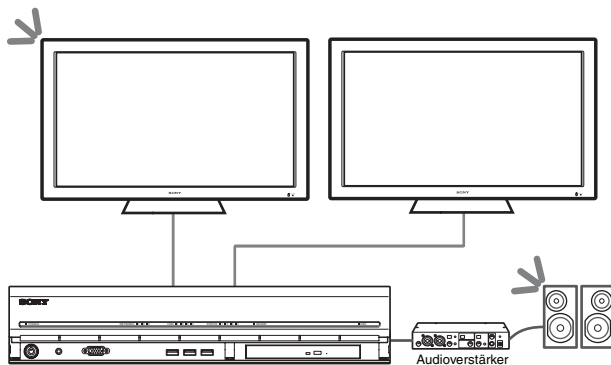
↘ : Positionen der Audioausgänge.

Hinweis

Ehe das Gerät eingeschaltet wird, müssen die HDMI-Monitore angeschlossen und eingeschaltet sein.

Beispiel 2) Betrieb mit zwei analogen RGB-Monitoren

↘ : Positionen der Audioausgänge.

Hinweise

- Schließen Sie die Monitore nicht an die HDMI-Monitoranschlüsse 1 oder 2 an.

- Schließen Sie keinen Monitor an den Monitoranschluss 1 auf der Vorderseite des Geräts an, solange das Gerät eingeschaltet ist.

Beispiel 3) Betrieb mit einem HDMI-Monitor und einem analogen RGB-Monitor (HDMI-Monitor wird zur Bedienung verwendet)
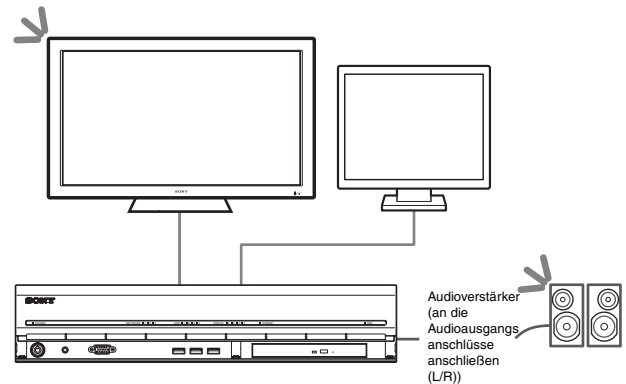
Audioverstärker (an die Audioausgangs anschlüsse anschließen (L/R))

↘ : Positionen der Audioausgänge.

Hinweise

- Schließen Sie keinen Monitor an den HDMI-Monitoranschluss 2 an.
- Wenn HDMI-Monitore verwendet werden, schließen Sie den HDMI-Monitor an und schalten Sie ihn ein, ehe Sie das Gerät einschalten.

Beispiel 4) Betrieb mit einem HDMI-Monitor und einem analogen RGB-Monitor (analoger RGB-Monitor wird zur Bedienung verwendet)
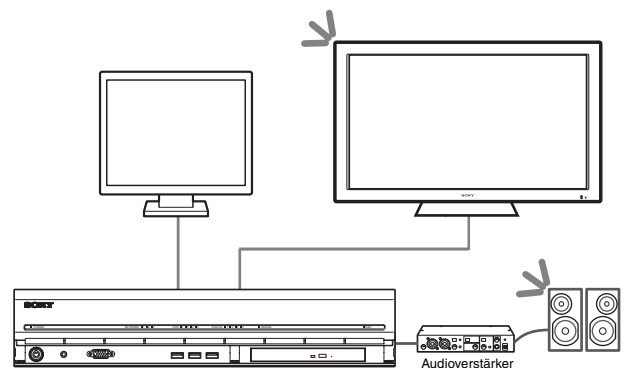
↘ : Positionen der Audioausgänge.

Hinweise

- Schließen Sie keinen Monitor an den HDMI-Monitoranschluss 1 an.
- Schließen Sie keinen Monitor an den Monitoranschluss 1 auf der Vorderseite des Geräts an, solange das Gerät eingeschaltet ist.

NSRE-S200-Anschlussbeispiel

Sie können bis zu sieben optionale NSRE-S200-
Einheiten entsprechend folgendem
Verzweigungsschema an das NSR-1200/1100/1050H
anschließen.

Hinweis

Das für den Anschluss verwendete Mini-SAS-Kabel ist
im Lieferumfang des NSRE-S200 enthalten.

Schließen Sie die NSRE-S200-Erweiterungen in der
folgenden Reihenfolge an.
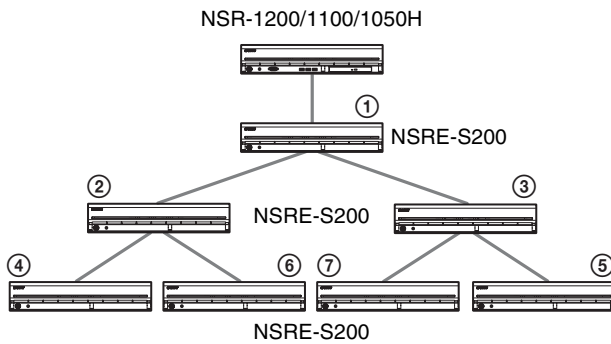
Verschiedenes

STATUSANZEIGE

Wenn im Gerät ein Fehler auftritt, blinkt oder leuchtet je nach dem Fehlerstatus die Fehler-LED am vorderen Bedienfeld des Geräts, und die Status-LED leuchtet.

STATUS ▮1 ▮2 ▮3 ▮4   ▮ ERROR

Die Statusanzeige signalisiert die nachfolgend aufgeführten Fehlersituationen.

Fehlercodes während des Hochfahrens
(Die Fehleranzeige blinkt, wenn während des Startvorgangs ein Fehler auftritt.)

Fehlercode	Statusanzeige	Fehleranzeige	Mögliche Ursache
1	1 2 3 **4**	Blinkt	Netzteil-Spannungsfehler
2	1 2 **3** 4	Blinkt	CPU-Lüfterfehler
3	1 2 **3 4**	Blinkt	Defektes Speichermodul
4	1 **2** 3 4	Blinkt	CMOS-Pufferbatterie
5	1 **2** 3 **4**	Blinkt	Videospeicher (RAM)- oder Controllerfehler
6	1 **2 3** 4	Blinkt	Festplattencontroller-Fehler
7	1 **2 3 4**	Blinkt	Kein bootfähiges Gerät gefunden
8	**1** 2 3 4	Blinkt	Kein bootfähiges Betriebssystem gefunden
9	**1** 2 3 **4**	Blinkt	Mindestens ein Festplattenfehler
A	**1** 2 **3** 4	Blinkt	RAID-OS-Volume-Fehler
B	**1** 2 **3 4**	Blinkt	Fehler beim Start des X11-Servers
C	**1 2** 3 4	Blinkt	Fehler beim Start der Anwendung
D	**1 2** 3 **4**	Blinkt	Für zukünftige Zwecke reserviert
E	**1 2 3** 4	Blinkt	Für zukünftige Zwecke reserviert
F	**1 2 3 4**	Blinkt	RAID-Daten-Volume-Fehler

Fehlercodes während des Betriebs
(Die Fehleranzeige leuchtet, wenn während des Betriebs ein Fehler auftritt.)

Fehlercode	Statusanzeige	Fehleranzeige	Mögliche Ursache
1	1 2 3 **4**	Leuchtet	Kritische Temperatur
2	1 2 **3** 4	Leuchtet	CPU-Lüfterfehler
3	1 2 **3 4**	Leuchtet	Netzteillüfterfehler
4	1 **2** 3 4	Leuchtet	Netzteil-Spannungsfehler
5	1 **2** 3 **4**	Leuchtet	Fehler an Festplattenlüfter 1
6	1 **2 3** 4	Leuchtet	Fehler an Festplattenlüfter 2
7	1 **2 3 4**	Leuchtet	Die Festplatte ist beschädigt.
8	**1** 2 3 4	Leuchtet	Für zukünftige Zwecke reserviert
9	**1** 2 3 **4**	Leuchtet	Für zukünftige Zwecke reserviert
A	**1** 2 **3** 4	Leuchtet	Für zukünftige Zwecke reserviert
B	**1** 2 **3 4**	Leuchtet	Betriebssystemfehler
C	**1 2** 3 4	Leuchtet	Anwendung funktioniert nicht fehlerfrei
D	**1 2** 3 **4**	Leuchtet	[FEHLER]-LED im Bildschirm „Haupt" leuchtet
E	**1 2 3** 4	Leuchtet	RAID-Daten-Volume-Fehler
F	**1 2 3 4**	Leuchtet	RAID-Daten-Volume wird neu strukturiert

▮ gibt an, dass die Status-LED oder Fehler-LED leuchtet.

E/A-Anschluss

Stiftzuweisung des E/A-Anschlusses

Sensoreingang

Pin-Nr.	SENSOREINGANG
1	3.3 v
2	IN_8 –
3	IN_8 +
4	IN_7 –
5	IN_7 +
6	IN_6 –
7	IN_6 +
8	IN_5 –
9	IN_5 +
10	IN_4 –
11	IN_4 +
12	IN_3 –
13	IN_3 +
14	IN_2 –
15	IN_2 +
16	IN_1 –
17	IN_1 +
18	GND

Alarmausgang

Pin-Nr.	Alarmausgang
1	GND
2	OUT_8 –
3	OUT_8 +
4	OUT_7 –
5	OUT_7 +
6	OUT_6 –
7	OUT_6 +
8	OUT_5 –
9	OUT_5 +
10	OUT_4 –
11	OUT_4 +
12	OUT_3 –
13	OUT_3 +
14	OUT_2 –
15	OUT_2 +
16	OUT_1 –
17	OUT_1 +
18	3.3 v

RS-422/485

Pin-Nr.	RS-422	RS-485
19	TX-	TX-
20	TX+	TX+
21	RX-	
22	RX+	

Verwenden der E/A-Buchsen

Stecken Sie einen kleinen Schraubenzieher in den oberen oder unteren Schlitz neben der Öffnung, in die Sie ein Kabel stecken möchten (AWG Nr. 28 bis 18). Stecken Sie das Kabel ein, und lassen Sie dann den Schraubenzieher los.

Vorsicht

Drücken Sie den Schraubenzieher nicht zu fest in den Schlitz, da sonst etwas beschädigt werden könnte.
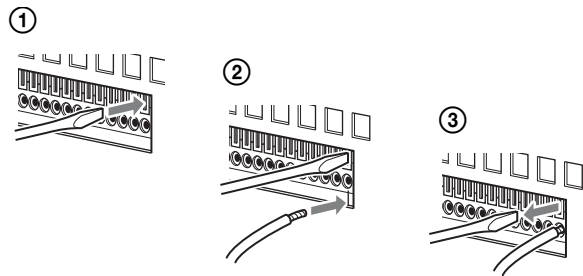
Schließen Sie auf dieselbe Weise alle benötigten Kabel an.

Schaltplan 1 für Sensoreingabe

Innerhalb dieses Geräts   Außerhalb

Pin 3, 5, 7, 9, 11, 13, 15, 17
(SENSOREINGANG+)

2.35 kΩ

Sensorausgabe:
3,3 bis 24 V-

Pin 2, 4, 6, 8, 10, 12, 14, 16
(SENSOREINGANG-)

Schaltplan 2 für Sensoreingabe

Innerhalb dieses Geräts   Außerhalb

Pin 1 (VDD) (200 mA max)

Pin 3, 5, 7, 9, 11, 13,
15, 17
(SENSOREINGANG+)   Kabel

2.35 kΩ   Mechanischer
Schalter

Pin 2, 4, 6, 8, 10, 12,
14, 16
(SENSOREINGANG-)   oder

Pin 18 (ERDE)

GND   Ausgabe des
offenen Kollektors
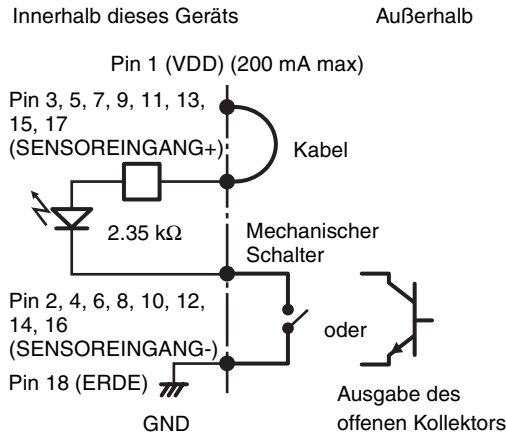
Hinweise

Bei Verschaltung nach Stromlaufplan 2 ist der NSR
elektrisch nicht isoliert. Gestalten Sie in diesem Fall die
externen Stromkreise so, dass weder Störungen noch
Überspannungen oder Überströme durch sie verursacht
werden.

Schaltplan für Alarmausgabe

Innerhalb dieses Geräts   Außerhalb

Pin 3, 5, 7, 9, 11, 13,
15, 17
(ALARMEINGANG+)   5 V

Magnetrelais 24 V
24 V-, 1 A oder
weniger   Schaltungsbeispiel

Pin 2, 4, 6, 8, 10, 12,
14, 16
(ALARMEINGANG-)

GND
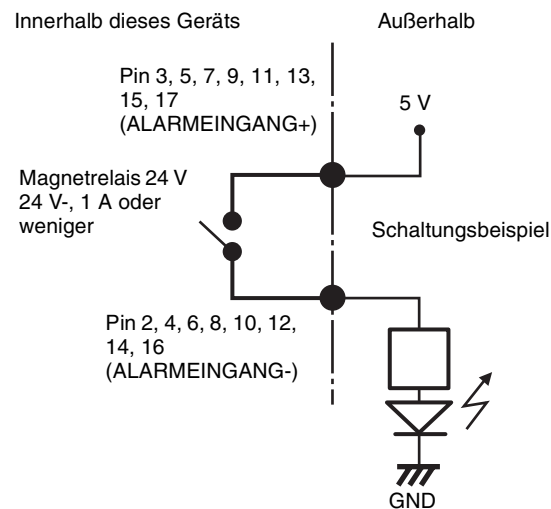
Fehlersuche

Überprüfen Sie die folgenden Punkte, ehe Sie sich an
Ihren Händler oder ein Sony-Kundendienstcenter
wenden. Wenn sich das Problem hierdurch nicht
beheben lässt, wenden Sie sich an ein SONY-
Servicecenter.

Das NSR funktioniert nicht.

- Überprüfen Sie, ob der Netzschalter auf ON steht.
- Überprüfen Sie, ob das Stromkabel ordnungsgemäß
  angeschlossen ist.
- Überprüfen Sie, ob die Steckdose Strom führt.
  Schließen Sie hierzu ein anderes Gerät an.

- Stellen Sie sicher, dass kein Zugriff auf die
  Festplattenlaufwerke erfolgt (die Festplatten-LEDs
  auf der Vorderseite des Recorders dürfen nicht
  blinken), und erzwingen Sie dann die Abschaltung,
  indem Sie den Netzschalter auf der Rückseite des
  Geräts ungefähr 10 Sekunden lang gedrückt halten.
  Starten Sie das NSR neu.
- Während des Starts prüft das NSR das Dateisystem.
  Die Dauer dieser Prüfung hängt von der Menge der
  Daten auf dem NSR ab (im Extremfall ca. zwei
  Stunden). Während der Prüfung des Dateisystems
  blinken die Festplatten-LEDs auf der Vorderseite des
  Recorders.
- Wenn das NSR nicht korrekt startet, wird
  möglicherweise der folgende Bildschirm angezeigt.

```
NSR DOM Menu

1. HDD Restore
2. DOM Restore
3. Software Restore
4. Reboot the system
5. Shutdown the system

Enter your choice :
```
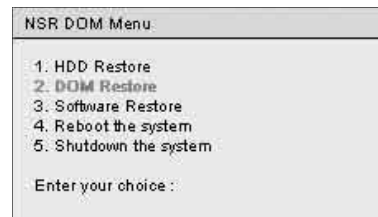
Gehen Sie in diesem Fall wie im Folgenden
beschrieben vor.
1. Wählen Sie die Option „5. Shutdown the
   system", und drücken Sie die Taste „Enter".
2. Überprüfen Sie entsprechend der Anleitung
   unter „Auf die Festplatte kann nicht
   zugegriffen werden", ob die NSR-Festplatten
   ordnungsgemäß angeschlossen sind.
3. Starten Sie das NSR neu, und prüfen Sie, ob
   der Startvorgang korrekt verläuft.

Der Monitor bleibt leer.

- Überprüfen Sie, ob das NSR eingeschaltet ist.
- Prüfen Sie, ob das Netzkabel richtig angeschlossen ist.
- Prüfen Sie, ob das Monitorkabel richtig angeschlossen
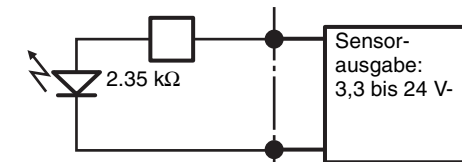 ist. Prüfen Sie, ob der Monitor mit dem
  Monitoranschluss 1 verbunden ist.
- Falls Sie eine ungeeignete Monitorauflösung gewählt
  haben und die Auflösung zu niedrig für das
  Ausgangsbild ist, wird die Meldung „Out of range"
  angezeigt. Zum Herabsetzen der Auflösung des
  Ausgangsbildes drücken Sie STRG+ALT+Minus,
  ggf. auch mehrmals. Wenn die Auflösung des
  ausgegebenen Bildes die Auflösung des Monitors
  erreicht, wird das Bild angezeigt. Konfigurieren Sie
  dann die Monitorauflösung neu. Näheres finden Sie
  im Benutzerhandbuch (PDF-Datei).

Der an den HDMI-Anschluss angeschlossene Monitor funktioniert nicht ordnungsgemäß.

- Wenn Sie den Eingang für den HDMI-Monitor
  umschalten oder das Kabel neu anschließen, werden
  die Bilder unter Umständen nicht ordnungsgemäß

angezeigt. Versuchen Sie in diesen Fällen die folgende Lösung:
1. Schalten Sie den Eingang auf den Monitor um.
2. Starten Sie den Monitor neu.

Wenn sich die Störung hierdurch nicht beheben lässt, trennen Sie das HDMI-Kabel vom Gerät und setzen Sie den Betrieb mit dem analogen RGB-Monitor fort. Starten Sie das Gerät in einem geeigneten Moment neu, und schließen Sie den HDMI-Monitor neu an.

Die neue externe Hardware funktioniert nicht richtig.

• Stellen Sie sicher, dass die Kabel für das neue externe Gerät fest angeschlossen sind und die Kontaktstifte nicht verbogen sind.

Ein an den USB-Anschluss angeschlossenes externes Gerät funktioniert nicht.

• Wenn Sie ein USB-Gerät an das Gerät anschließen, kann unter Umständen die [ERROR]-LED unten rechts auf dem Bildschirm „HAUPT" leuchten. Überprüfen Sie folgendermaßen, ob das Gerät das USB-Gerät unterstützt.
   1. Klicken Sie auf die [ERROR]-LED. Das Systemprotokoll wird angezeigt.
   2. Überprüfen Sie, ob die Fehlermeldung „Unsupported USB device" im Systemprotokoll angezeigt wird. Wenn die Meldung „Unsupported USB device" angezeigt wird, unterstützt das Gerät nicht das USB-Gerät.
• Dieses Gerät unterstützt standardmäßige USB 2.0-Massenspeichergeräte. Bei einigen Typen von USB 2.0-Massenspeichergeräten können allerdings Fehler beim Schreiben von Daten auf das Gerät auftreten. Verwenden Sie in diesem Fall ein USB-Speichergerät eines anderen Typs.
• Schließen Sie zur Gewährleistung des korrekten Betriebs USB-Geräte nicht über einen USB-Hub an. Schließen Sie die Geräte direkt an die USB-Anschlüsse an der Vorderseite und Rückseite des Geräts an. Wenn Geräte über einen USB-Hub, einen USB-Switch oder ein Verlängerungskabel angeschlossen werden, wird die Funktion nicht garantiert.
• Beachten Sie die mit dem USB-Gerät gelieferte Dokumentation.

Das System kann keine Daten von DVD/CD lesen.

• Stellen Sie sicher, dass Datenträger des korrekten Typs verwendet werden.

• Stellen Sie sicher, dass die DVD/CD ordnungsgemäß in das Laufwerk eingelegt ist.
• Überprüfen Sie, ob die DVD/CD sauber und nicht zerkratzt ist.

Die DVD/CD-Lade kann nicht ausgefahren werden.

• Stellen Sie sicher, dass das NSR eingeschaltet ist.
• Führen Sie langsam das Ende einer Büroklammer oder die Spitze eines Kugelschreibers in die Notauswurföffnung am DVD-/CD-Laufwerk ein. Ziehen Sie die DVD/CD-Lade heraus, und entnehmen Sie das Medium.

Die Netzwerk-Anzeige leuchtet nicht auf.

• Prüfen Sie die Netzwerkkabel und -geräte auf korrekte Funktion.

Auf die Festplatte kann nicht zugegriffen werden.

• Stellen Sie sicher, dass die Festplatte ordnungsgemäß eingelegt ist.
• Überprüfen Sie die Festplatten-LEDs am vorderen Bedienfeld des Systems. Identifizieren Sie anhand der Festplatten-Anzeige die fehlerhafte Festplatte. Eine defekte Festplatten-LED leuchtet nicht.
• Bei häufigen Zugriffen auf die Festplatte blinkt die Festplatten-LED sehr schnell. In hellen Umgebungen wird dies unter Umständen nicht bemerkt.

Auf den NSR kann vom Remote-Client nicht zugegriffen werden.

• Stellen Sie sicher, dass das NSR ordnungsgemäß funktioniert (bei Festplatte, Netzwerk, Software und anderen Punkten dürfen keine Unregelmäßigkeiten vorliegen).
• Stellen Sie sicher, dass am Zentralserver die korrekten Einstellungen für das Gerät vorgenommen wurden.
• Stellen Sie sicher, dass in RealShot Manager Advanced der Benutzername, das Passwort und der Anschlussport richtig eingestellt sind.
• Beachten Sie die Hinweise zur Fehlersuche im Benutzerhandbuch für RealShot Manager Advanced.

Das NSR wird schnell heiß

• Stellen Sie sicher, dass die Belüftungsöffnungen auf der Vorderseite, an den Seiten, und auf der Rückseite des Geräts nicht blockiert sind, und dass sich in diesen kein Staub angesammelt hat.

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Wenden Sie sich bei inhaltlichen Fragen zu den Quellcodes nicht an Sony.

MPEG-4 Video Patent Portfolio Lizenz

DIESES PRODUKT IST IM RAHMEN DER MPEG-4 VISUAL PATENT PORTFOLIO LIZENZ LIZENZIERT. FÜR PERSÖNLICHE UND NICHTKOMMERZIELLE ANWENDUNG DURCH EINEN VERBRAUCHER FÜR

(i) CODIERUNG VON VIDEO IN ÜBEREINSTIMMUNG MIT DEM MPEG-4 VISUAL STANDARD (,,MPEG-4 VIDEO")

UND/ODER
(ii) DEKODIERUNG VON MPEG-4 VIDEO, DAS VON EINEM ANWENDER ALS PERSÖNLICHEN UND NICHTKOMMERZIELLE HANDLUNG CODIERT WURDE UND/ODER VON EINEM VIDEOANBIETER ERHALTEN WURDE, DER VON MPEG LA ZUR LIEFERUNG VON MPEG-4 VIDEO LIZENZIERT IST.

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Version 2.1, February 1999

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That's all there is to it!

Technische Daten

NSR-1200/1100/1050H

Prozessor
CPU   NSR-1200: Quad Core Xeon
NSR-1100: Dual Core Xeon
NSR-1050H: Dual Core Xeon

Speicher
Onboard-Flashspeicher
                 4 GB
Interner Speicher
                 NSR-1200: 2 GB
NSR-1100: 1 GB
NSR-1050H: 1 GB

Speichergeräte
Internes Festplattenlaufwerk
                 NSR-1200: 2 TB
                     (SATA-II 500 GB $\times$ 4)
NSR-1100: 1 TB
                     (SATA-II 500 GB $\times$ 2)
NSR-1050H: 500 GB
                     (SATA-II 500 GB $\times$ 1)
Die Kapazitäten für Festplattelaufwerke werden auf der Grundlage der folgenden Berechnung für 1 GB angegebenen: $1.000 \times 1.000 \times 1.000 = 1$ Milliarde Byte
DVD/CD-Laufwerk (Frontseite)
                 1 Laufwerk
Kompatible Medien: DVD+R, DVD-R, DVD-ROM, CD-R, CD-RW, CD-ROM

Externe Anschlüsse
Frontseite   Monitorausgang:
Analog RGB (Mini-D-SUB 15-polig) (1)
   USB: USB 2.0 (3)
Rückseite   Monitorausgang:
Analog RGB (Mini-D-SUB 15-polig) (2)
HDMI (2)
Audioausgang (L) (1)
Audioausgang (R) (1)
Audioeingang (1)
LAN (1000Base-T/100Base-TX/10Base-T) (RJ-45) (4)
USB: USB 2.0 (3)
Mini-SAS-Ausgang (Für den Anschluss eines optionalen

NSRE-S200, Mini-SAS- X4
(SFF-8088), 3.0 GBit/s) (1)
Sensoreingang (kompatibel mit 3,3-
V- bis 24-V-
Gleichspannungsschnittstellen,
durch Optokoppler, isoliert von
der Haupteinheit) (8)
Alarmausgang (max. 24 V
Gleichspannung / 1 A, durch
elektromechanisches Relais,
isoliert von der Haupteinheit, (8)
Serielle Schnittstelle für USV: RS-
232C (1)
Steuerung der analogen Kameras
(nur mit NSR-1050H oder
NSBK-A16-Erweiterung):
RS-232C (1)
RS-422/485 (1)

Umgebungsbedingungen
Betriebstemperatur
5 °C bis 40 °C (41 °F bis 104 °F)
Betriebsluftfeuchtigkeit
20 % bis 80 % (maximale
Feuchtlufttemperatur: 30 °C,
nicht kondensierend)
Temperatur bei Lagerung
–20 bis +60 °C (–4 °F bis +140 °F)
Luftfeuchtigkeit bei Lagerung
20 % bis 90 % relative Luftfeuchtigkeit
(maximale Feuchtlufttemperatur
40 °C/104 °F, nicht kondensierend)

Stromversorgungsdaten und Verschiedenes
Stromversorgung 100 bis 127 V /200 bis 240 V (50/60
Hz)
Leistungsaufnahme Max. 350 W
Abmessungen 430 × 87 × 417 mm (16,9 × 3,4 ×
16,4 Zoll)
(BxHxT, ohne herausragende
Teile)
Masse NSR-1200: ca. 13,5 kg (29,8 lb.)
NSR-1100: ca. 12 kg (26,7 lb.)
NSR-1050H: ca. 11,5 kg (25,4 lb.)

Optionales Zubehör
NSR-RM1 Rack-Montagesatz
Analoger Encoder-Satz NSBK-A16
NSRE-S200 Erweiterungsspeichergerät

Änderungen, die dem technischen Fortschritt dienen,
bleiben vorbehalten.

Hinweise
- Führen Sie immer eine Probeaufnahme aus, und bestätigen
  Sie, dass die Aufnahme erfolgreich war.
  SONY KANN KEINE HAFTUNG FÜR SCHÄDEN
  JEDER ART, EINSCHLIESSLICH ABER NICHT
  BEGRENZT AUF KOMPENSATION ODER
  ERSTATTUNG, AUFGRUND VON FEHLFUNKTION
  DIESES GERÄTS ODER SEINER DATENTRÄGER,
  EXTERNEN SPEICHERSYSTEMEN ODER JEGLICHEN
  ANDEREN DATENGRÄGERN ODER
  SPEICHERSYSTEMEN ZUR AUFNAHME VON
  INHALTEN JEDER ART ÜBERNEHMEN.
- Bestätigen Sie vor dem Gebrauch immer, dass das Gerät
  richtig arbeitet. SONY KANN KEINE HAFTUNG FÜR
  SCHÄDEN JEDER ART, EINSCHLIESSLICH ABER
  NICHT BEGRENZT AUF KOMPENSATION ODER
  ERSTATTUNG, AUFGRUND VON VERLUST VON
  AKTUELLEN ODER ERWARTETEN PROFITEN
  DURCH FEHLFUNKTION DIESES GERÄTS ODER AUS
  JEGLICHEM ANDEREN GRUND, ENTWEDER
  WÄHREND DER GARANTIEFRIST ODER NACH
  ABLAUF DER GARANTIEFRIST, ÜBERNEHMEN.

Indice

Marchi

- "IPELA" e **IPELA** sono marchi di Sony Corporation.
- Microsoft, Windows e Internet Explorer sono marchi registrati o marchi di Microsoft Corporation negli Stati Uniti e/o in altri paesi.
- HDMI, **HDMI** e High-Definition Multimedia Interface sono marchi di fabbrica o marchi registrati di HDMI Licensing LLC.
- Altri nomi di prodotti o di sistemi presenti in questo documento sono marchi -o marchi registrati dei rispettivi detentori.

Inoltre nel presente documento non si utilizzano i simboli ® o ™.

Prima di utilizzare il registratore leggere il presente manuale.

- La riproduzione o la copia, totale o parziale, del manuale di operativo o del software forniti con il registratore, nonché il noleggio o il leasing del software senza l'autorizzazione del titolare dei diritti, sono vietati dalla legge sul diritto d'autore.
- Sony non assume alcuna responsabilità per danni, mancato profitto o reclami da terze parti derivanti dall'utilizzo del registratore o del soft-ware in dotazione.
- Per i termini e le condizioni complete della garanzia per il registratore, fare riferimento alla scheda di garanzia inclusa nella confezione.
- Il software in dotazione al registratore non deve essere utilizzato con altri registratori.
- Sull'apparecchiatura è possibile installare esclusivamente il software fornito da Sony specificamente per questa apparecchiatura.
- Si noti che le specifiche del registratore e il software in dotazione sono soggetti a modifiche migliorative senza notifica.
- Il registratore utilizza l'algoritmo ad alta sicurezza MD5 per il salvataggio delle password.

Esclusione di responsabilità per il contenuto registrato

Sony Corporation non accetta alcuna responsabilità per problemi derivanti da errori di registrazione o da danni o da cancellazione del con-tenuto registrato su questa apparecchiatura, per qualsiasi motivo. Sono inclusi i reclami per risar-cimento del contenuto registrato e per qualsiasi danno concomitante e consequenziale. Sony Corporation non riparerà, ripristinerà, né copierà il contenuto registrato. L'uso di questo prodotto è soggetto alle suddette condizioni.

Prima di leggere il presente manuale

Leggere il supplemento "Normative di sicurezza".

Precauzioni per l'uso

Informazioni importanti sulla sicurezza

- Accertarsi di collegare l'unità a una fonte di alimentazione che è pienamente conforme alle specifiche elettriche di questa unità.
- Utilizzare solo il cavo di alimentazione in dotazione. Non avvolgere il cavo di alimentazione né arrotolarlo insieme ad altri cavi. Non eseguire collegamenti in parallelo ("piggy-back"). Se i valori di potenza nominale vengono superati, potrebbero verificarsi incendi o altri incidenti.
- Assicurarsi che tutte le prese di rete CA e i tutti i cavi di alimentazione dispongano di messa a terra appropriata.
- Non utilizzare l'apparecchio con il coperchio o il rivestimento aperti o rimossi. Diversamente, potrebbero verificarsi incendi e scosse elettriche. Non tentare di aprire o rimuovere personalmente il coperchio o il rivestimento. Se è necessario aprire questi ultimi, rivolgersi sempre al proprio fornitore.

Informazioni importanti sull'installazione

Posizioni di utilizzo/conservazione
Per prolungare la durata del prodotto, evitare di utilizzarlo o conservarlo nei luoghi indicati di seguito.
- Luoghi soggetti a temperature estremamente alte o basse. (Io seguo le specifiche di questa apparecchiatura da tutti i mezzi, e per favore l'uso.)
- Luoghi esposti a luce solare diretta per periodi prolungati e luoghi in prossimità di impianti di riscaldamento. La temperatura all'interno di un'auto chiusa in estate può superare i + 50 °C/122 °F.
- Luoghi con elevati livelli di umidità o polvere
- Luoghi soggetti a forti vibrazioni
- Luoghi soggetti a forti campi magnetici
- Luoghi in prossimità di trasmettitori radio o TV, che generano forti campi magnetici

Non ostruire le aperture di ventilazione
- Le aperture di ventilazione sui lati dell'apparecchio servono ad evitare eventuali surriscaldamenti interni. Lasciare sempre uno spazio vuoto di almeno 10 cm su entrambi i lati, dietro e sopra l'apparecchio.
- Non utilizzare l'apparecchio in spazi chiusi o ristretti.
- Assicurarsi che non vi siano cavi o altri oggetti in prossimità dell'apertura della ventola nella parte posteriore dell'apparecchio. Se l'apertura è bloccata, è possibile che si verifichi un surriscaldamento interno, con conseguente rischio di incendi e danni.
- Anche se l'apparecchio è installato su rack, è necessario assicurarsi che l'apertura della ventola nella parte posteriore dell'apparecchio e le aperture di ventilazione nella parte anteriore non siano ostruite da

cavi o altri oggetti. Non installare l'apparecchio in ambienti non conformi ai requisiti di cui sopra.

Utilizzare l'apparecchio in posizione orizzontale
- L'apparecchio è stato progettato per essere utilizzato esclusivamente in posizione orizzontale.
- Non installare l'apparecchio su una superficie inclinata e proteggerlo da eventuali urti.
- Se cade o viene sottoposto a forti urti, l'apparecchio potrebbe risultare gravemente danneggiato.
- Se l'apparecchio viene installato su rack, assicurarsi di mantenere comunque la posizione orizzontale. Se l'apparecchio si trova in posizione inclinata, potrebbero verificarsi problemi di funzionamento. Si consiglia inoltre di fissare saldamente il rack a una parete o simili, onde evitare che si capovolga.

Manutenzione
- Prima di pulire l'apparecchio o di eseguire interventi di manutenzione di qualsiasi tipo, assicurarsi di scollegare il cavo di alimentazione dalla presa di rete CA.
- Pulire delicatamente il rivestimento e i pannelli con un panno asciutto. Per eliminare le macchie persistenti, inumidire leggermente il panno con una soluzione detergente neutra, quindi asciugare con un panno asciutto.
- Per la pulizia, non utilizzare alcol, solventi, benzina, insetticidi o altre sostanze volatili, onde evitare di danneggiare la finitura e provocarne lo scolorimento.
- Nelle aperture di ventilazione presenti sulla parte anteriore dell'apparecchio può verificarsi un accumulo di polvere. Durante la rimozione della polvere, assicurarsi di non sottoporre l'apparecchio a urti o vibrazioni.

Trasporto
Per proteggere l'apparecchio da eventuali urti, utilizzare il materiale di imballaggio originale o uno simile.

Precauzioni per i prodotti con HDD integrato

Il presente apparecchio dispone di un'unità disco fisso (HDD) integrata. Quest'ultima è costituita da un dispositivo di precisione. In caso di urti, vibrazioni, elettricità statica, temperatura o umidità elevata, è possibile che si verifichino perdite di dati. Per l'installazione e l'uso dell'apparecchio, osservare attentamente le seguenti precauzioni.

Proteggere l'apparecchio da urti e vibrazioni
Se viene sottoposto a urti o vibrazioni, l'HDD può risultare danneggiato e potrebbero verificarsi perdite di dati dall'HDD stesso.
- Per trasportare l'apparecchio, utilizzare il materiale di imballaggio specificato. In caso di trasporto su carrelli

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o simili, utilizzare un mezzo che non trasmetta vibrazioni eccessive. Diversamente, l'HDD potrebbe risultare danneggiato.

- Non spostare l'apparecchio mentre è acceso. Anche prima di installarlo su rack o rimuoverlo, è necessario assicurarsi che sia spento.
- Proteggere tutti i dispositivi dotati di HDD presenti nel rack da eventuali urti.
- Prima di installare l'apparecchio su rack o di rimuoverlo, assicurarsi che anche eventuali dispositivi dotati di HDD presenti nel rack siano spenti.
- Non rimuovere i pannelli o le parti esterne dell'apparecchio.
- Per collocare l'apparecchio sul pavimento o su un'altra superficie, assicurarsi che disponga dei piedini specificati, quindi depositare l'apparecchio su tale superficie con estrema cautela. Se i piedini non sono presenti, applicarli innanzitutto all'apparecchio. Non collocare l'apparecchio in prossimità di altri dispositivi che potrebbero risultare fonte di vibrazioni.

Dopo lo spegnimento, attendere 30 secondi.

Per un breve periodo di tempo successivo allo spegnimento, i dischi presenti all'interno dell'HDD continuano a ruotare e le testine si trovano in posizione instabile. Durante tale periodo, l'apparecchio è più sensibile a urti e vibrazioni rispetto ai periodi di normale funzionamento. Per almeno 30 secondi dopo lo spegnimento, evitare di sottoporre l'apparecchio a qualsiasi tipo di urto. Dopo tale periodo, i dischi dell'HDD si saranno arrestati completamente e sarà quindi possibile utilizzare l'apparecchio.

Precauzioni relative a temperatura e umidità

Utilizzare e conservare l'apparecchio solo in luoghi in cui i valori limite di temperatura e umidità non vengono superati. (Io seguo le specificazioni di questa apparecchiatura da tutti i mezzi, e per favore l'uso.)

In caso di problemi all'HDD

Anche se sembrano verificarsi problemi di funzionamento dell'HDD, assicurarsi di osservare tutte le precauzioni di cui sopra. In tal modo, è possibile evitare che si verifichino ulteriori danni finché non è possibile diagnosticare e risolvere il problema.

Sostituzione del disco rigido e di altre parti di consumo

Il disco rigido, la ventola e la batteria dell'unità sono parti di consumo che richiedono la sostituzione periodica. Se l'apparecchio viene utilizzato a temperatura ambiente, il ciclo normale di sostituzione è di circa tre anni. Tuttavia, ciò ha un valore puramente indicativo e non implica alcuna garanzia sulla durata di vita prevista di questi componenti. Per ulteriori informazioni sulla sostituzione dei componenti, rivolgersi al proprio rivenditore.

Precauzioni per l'utilizzo dei dispositivi USB

- Questa unità supporta le periferiche di archiviazione di massa USB 2.0 standard. A seconda del tipo di dispositivo di memorizzazione di massa USB 2.0, tuttavia possono verificarsi errori durante la scrittura dei dati sulla periferica. Se si verificano errori durante la scrittura dei dati, utilizzare un dispositivo di memorizzazione USB di tipo diverso.
- Per garantire un funzionamento corretto dei dispositivi USB, non collegare le periferiche mediante un hub USB. Collegare i dispositivi direttamente ai connettori USB sull'apparecchio. Il corretto funzionamento non può essere garantito se la connessione dei dispositivi è realizzata tramite un hub USB, uno switch hub oppure un cavo di prolunga.

Descrizione generale

La serie NSR è un server di registrazione a disco rigido per telecamere di rete. L'unità NSR consente di monitorare e registrare immagini della telecamera di rete (JPEG o MPEG-4). Consente inoltre di riprodurre le immagini registrate ed effettuare ricerche in tali immagini, caratteristica che rende l'unità NSR uno strumento di monitoraggio davvero adatto per ogni esigenza.

Compatibilità con telecamere per telesorveglianza

È possibile fare una panoramica, inclinare ed eseguire operazioni di zoom da telecamere compatibili.

Compatibilità con telecamere analogiche

È possibile eseguire il monitoraggio e registrare immagini da telecamere analogiche collegandole direttamente all'unità[1] .

1) L'unità NSR-1200/1100 richiede un'espansione NSBK-A16 (opzionale), mentre l'NSR-1050H dispone di un connettore incorporato.

Dischi rigidi ad alta capacità per registrazioni di lunga durata

Dotata di dischi rigidi ad alta capacità, l'unità è in grado di registrare immagini di elevata qualità per periodi prolungati. Per gli esempi di riferimento, consultare "Dati di riferimento per l'installazione" (pagina 205).

Modello sottile (2U) di ingombro limitato per montaggio su rack da 19 pollici

Con il kit di montaggio su rack opzionale (venduto a parte), il registratore può essere installato in un rack EIA standard da 19.

Registrazione di 480 fps ad alta risoluzione (VGA, JPEG)

L'unità NSR-1200 è in grado di supportare fino a 64 telecamere, la NSR-1100 supporta fino a 32 telecamere e la NSR-1050H supporta fino a 20 telecamere. L'unità NSR-1200 registra immagini a una frequenza di quadro totale di 480 fps[1] (240 fps con l'unità NSR-1100, 120 fps con l'unità NSR-1050H), risoluzione VGA (640 × 480 pixel)[2] e formato dell'immagine JPEG (1 fotogramma circa 31 KB), per la nitidezza dell'immagine.

1) Frequenza di quadro massima quando 16 telecamere sono collegate al registratore. Ogni telecamera ha una frequenza di quadro di circa 30 fps. Questa frequenza di quadro può ridursi a causa della frammentazione dei dischi rigidi interni. I valori sono basati su misure effettuate da Sony. Tali valori non sono garantiti, perché le prestazioni possono variare a seconda delle condizioni di funzionamento dell'utente.
2) Nella risoluzione QuadVGA (1.280 × 960), la frequenza di frame è pari a 1/4 rispetto a quella della risoluzione VGA.

Alta affidabilità

L'unità NSR-1200 supporta RAID 5[1] e garantisce alta affidabilità. Il sistema può continuare a funzionare anche se si verifica un malfunzionamento di uno dei dischi rigidi. Analogamente, poiché il software e le impostazioni del sistema sono archiviati nella memoria flash dell'unità NSR, se si verifica un errore nel software del sistema è possibile ottenere un ripristino rapidissimo del sistema. L'unità NSR è inoltre compatibile con i gruppi di continuità (UPS), il che la rende estremamente affidabile.

1) RAID 5 è un sistema per la suddivisione e la conservazione di dati e parità (codici di correzione errori) su più di un disco rigido. Sebbene questo sistema consenta il funzionamento continuato in caso di malfunzionamento dei dischi rigidi, questo non garantisce il ripristino dei dati persi. Inoltre, considerato l'elevato carico di elaborazione interna durante la ricostruzione dopo la sostituzione del disco rigido malfunzionante, l'unità potrebbe non essere in grado di registrare le immagini alla velocità di registrazione impostata mentre è in corso la ricostruzione.

Altre funzioni

- È possibile visualizzare le immagini da 64 telecamere (8 × 8 immagini) su un solo schermo.
- L'unità NSR consente, tra l'altro, la registrazione manuale, pianificata e dell'allarme.
- L'unità NSR è dotata di una funzione di rilevamento dell'attività[1] (Video Motion Detection (Registratore)).
- Consente di eseguire rapidamente ricerche in base al nome della telecamera, alla data, all'allarme e altri metodi ancora ecc.
- Consente di creare zone riservate grazie alle funzioni di mascheramento dinamico[2] dell'unità NSR. Il mascheramento dinamico include la panoramica, l'inclinazione e lo zoom.
- L'elaborazione precisa degli allarmi è resa possibile da diversi tipi di filtro[3], che utilizzano i risultati dell'elaborazione delle immagini inviati dalla telecamera sotto forma di metadati con informazioni sugli oggetti. Poiché i filtri possono essere applicati ai metadati già registrati, è anche possibile cercare aree di interesse una volta terminata la registrazione.
- Sono anche supportate la registrazione e riproduzione audio[4] da telecamere compatibili.

1) Alcune funzioni sono soggette a limitazioni che dipendono dal numero di telecamere collegato.
2) Alcune funzioni sono soggette a limitazioni che dipendono dal modello di telecamera collegato.
3) Per eseguire la rilevazione movimento e la rilevazione oggetto mediante metadati, è necessaria una telecamera che supporti la rilevazione del movimento tramite metadati. L'uso di metadati è supportato per un massimo di 32 telecamere.
4) Sono necessari amplificatori audio o altoparlanti opzionali.

Il presente manuale spiega soltanto come installare e configurare l'unità NSR. Per dettagli su come utilizzare l'unità, consultare la Guida per l'utente (PDF).

Requisiti di sistema

L'utilizzo di questo registratore richiede il seguente hardware.
- Telecamere di rete Sony
  Contattare il proprio rivenditore per informazioni sulle telecamere di rete Sony compatibili.
- Monitor[1]
- Tastiera USB[2]
- Mouse USB[3]
- Telecomando USB[4]
- Interruttore di rete
- Cavo 1000 Base-T/100 Base-TX/10 Base-T
- Dispositivo di memorizzazione USB[5]

1) Questa unità supporta dispositivi compatibili HDMI e i monitor per computer con ingresso RGB.
   È possibile specificare le seguenti risoluzioni.
   -Full High-Definition (1.920 × 1.080)
   -WUXGA (1920 × 1200)
   -Full Wide XGA (1.360 × 768)
   -UXGA (1.600 × 1.200)
   -SXGA (1,280 × 1,024)
   -XGA (1024 × 768)

2) Utilizzare una tastiera USB con cavo. Le tastiere non standard potrebbero non funzionare. Anche tastiere USB wireless o a infrarossi potrebbero funzionare in modo errato.

3) Utilizzare un mouse USB con cavo. Mouse a tre pulsanti o con rotella potrebbero funzionare in modo non corretto. Anche mouse USB wireless o a infrarossi potrebbero funzionare in modo errato.

4) È possibile utilizzare un telecomando per gestire le operazioni Pan, Tilt e Zoom delle telecamere.
   -Questa unità supporta i controller USB Desktop IP di CH Products. Altri telecomandi non sono supportati.

5) Necessario quando si esegue il backup di informazioni di sistema quali i registri.
   -Questa unità supporta le periferiche di archiviazione di massa USB 2.0 standard. A seconda del tipo di dispositivo di memorizzazione di massa USB 2.0, tuttavia possono verificarsi errori durante la scrittura dei dati sulla periferica. Se si verificano errori durante la scrittura dei dati, utilizzare un dispositivo di memorizzazione USB di tipo diverso.

Nota

Quando si utilizzano monitor che supportano sia HDMI che RGB, si consiglia l'utilizzo dell'ingresso RGB.

Contenuto della confezione

Verificare che i seguenti articoli siano inclusi nella presente confezione:

NSR-1200/1100
- Server di registrazione di monitoraggio NSR-1200/1100 (1)
- Chiave del pannello anteriore (2)
- Manuale di installazione (questo documento) (1)
- Guida introduttiva (1)
- Guida alle funzioni della finestra Monitoraggio (1)
- Normative di sicurezza (1)
- Opuscolo di WEEE (1)
- Opuscolo di garanzia (1)
- Piedini in gomma (4)

NSR-1050H
- Server di registrazione di monitoraggio NSR-1050H (1)
- Chiave del pannello anteriore (2)
- Cavo di ingresso della telecamera analogica (1)
- Manuale di installazione (questo documento) (1)
- Guida introduttiva (1)
- Guida alle funzioni della finestra Monitoraggio (1)
- Normative di sicurezza (1)
- Opuscolo di WEEE (1)
- Opuscolo di garanzia (1)
- Piedini in gomma (4)

Note
- Questa confezione potrebbe includere hardware aggiuntivo e/o la relativa documentazione.
- Conservare le scatole e il materiale di confezionamento per utilizzarli in futuro.
- Il kit di montaggio su rack (NSR-RM1) è opzionale (venduto a parte).

Download dei file memorizzati sull'NSR

I documenti, ad esempio i manuali di istruzioni, e gli strumenti sono memorizzati sull'unità NSR. Procedere come descritto di seguito per effettuare il download dei file memorizzati sull'unità NSR.

1 Utilizzare un client FTP quale Internet Explorer per specificare l'URL seguente sul computer in uso.
ftp://ftptool@<Indirizzo IP NSR>

2 Immettere il nome utente e la password seguenti.
Nome utente:ftptool
Password: ftptool

Nota

Per cambiare il nome utente e la password, modificare la configurazione [Enable user to Get Tools from Remote] alla voce "FTP" del Menu Setup. Inoltre, se si modifica il nome utente, è necessario modificare anche l'indirizzo che segue "ftp://" nell'URL specificando il nuovo "nome utente@<indirizzo IP NSR>."

Nel client FTP vengono visualizzate le cartelle e i file seguenti.

3 Selezionare le cartelle che contengono i file desiderati.

Cartella
Manuale: Contiene i manuali di istruzioni (in formato PDF).
Codice sorgente: Contiene il codice sorgente GPL/LGPL e altri dati del genere.
Strumento: Contiene RealShot Manager Advanced e Media File Player.
File
README.txt: Contiene informazioni su ciascuna cartella.

Vengono visualizzati i file contenuti in ciascuna cartella.

4 Fare clic sui file che si desidera scaricare.

Utilizzo del manuale PDF

Sull'unità NSR sono memorizzati i manuali operativi e altri documenti (versioni localizzate in giapponese, inglese, francese, tedesco, italiano, spagnolo cinese semplificato e russo).
Le copie di questi manuali vengono create in pdf (Portable Document Format).

Preparazione

Per poter utilizzare i manuali d'uso memorizzati sull'unità NSR è necessario installare il seguente software sul proprio computer.
• Adobe Reader versione 6.0 o superiore

Nota

Se Adobe Reader non fosse installato, è possibile scaricarlo dal seguente URL:
http://www.adobe.co.jp/

Adobe e Adobe Reader sono marchi di fabbrica registrati di Adobe Systems Incorporated negli Stati Uniti e/o altri paesi.

Visualizzazione dei manuali in formato PDF

1 Fare riferimento a "Download dei file memorizzati sull'NSR" e scaricare sull'unità NSR il manuale localizzato nella lingua conosciuta dalla cartella "Manuale".

2 Fare doppio clic sul file scaricato.

Nota

A seconda della versione di Adobe Reader utilizzata, è possibile che il file non venga visualizzato correttamente. Se il file non viene visualizzato correttamente, effettuare il download della versione più recente di Adobe Reader dall'indirizzo URL riportato nella sezione "Preparazione".

Funzioni e caratteristiche

Lato anteriore (Quando la una coperta è aperta)

NSR-1200/1100/1050H
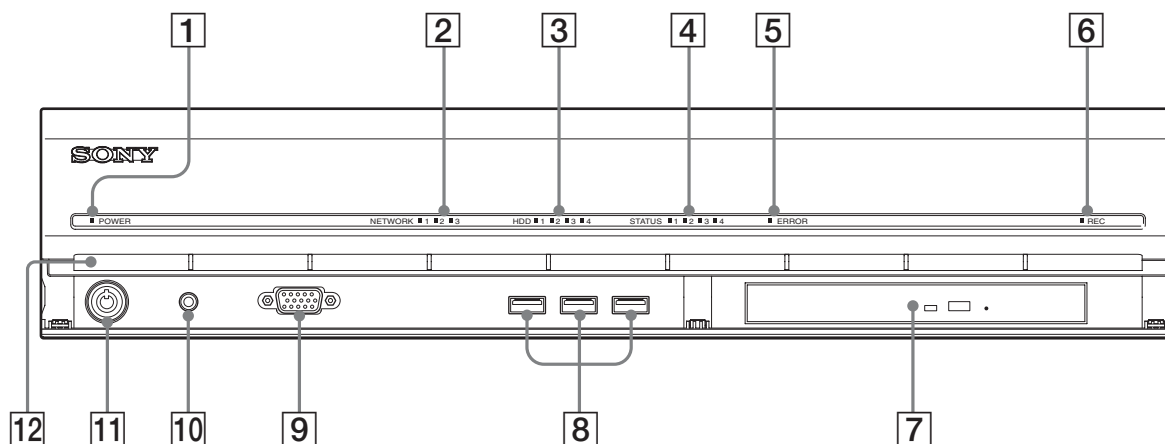
1 **LED di alimentazione**
Al termine del riavvio emette una luce verde.
Emette una luce gialla quando è in standby.

2 **LED di rete (da 1 a 3)**
È verde in presenza di attività sul connettore LAN corrispondente sul retro dell'unità NSR.

3 **LED disco rigido**
È verde e lampeggia per indicare l'accesso ai dischi rigidi interni.
Emette una luce gialla quando si verifica un errore nel disco rigido.

4 **LED di stato (da 1 a 4)**
Si illumina in sequenza (1, 2, 3, 4) all'avvio dell'unità NSR. Quando si verifica un errore, si accende il LED di stato corrispondente assieme al LED di errore, che emette una luce continua o lampeggia per indicare il tipo di errore.
Per ulteriori informazioni, fare riferimento a "LED di stato" (pagina 225).

5 **LED di errore**
Si illumina con luce fissa o intermittente in caso di errore.

6 **LED REC**
Si illumina durante la registrazione di immagini.

7 **Unità DVD/CD**
Consente la scrittura dei dati dai dischi rigidi dell'unità NSR su dischi DVD e CD.

8 **Connettore USB**
Utilizzare questo connettore per collegare all'unità NSR un mouse e tastiera USB o una memoria flash USB.

9 **Connettore monitor 1**
Utilizzare questo connettore per un monitor.
Il connettore monitor 1 (e il connettore monitor 1 sulla parte posteriore dell'unità) e il connettore monitor HDMI 1 sulla parte posteriore dell'unità non possono essere utilizzati contemporaneamente.

10 **Interruttore di alimentazione**
Premere per accendere l'apparecchio. (Con questo interruttore non è possibile spegnere l'unità).

11 **Blocco**
Il dispositivo di blocco consente, tramite la chiave del pannello frontale fornita, di bloccare la lunetta frontale. Quando tale lunetta è bloccata, non è possibile estrarla. Non bloccare la lunetta frontale quando è stato estratta. Per determinare se il dispositivo si trova in posizione bloccata o meno, osservarne la posizione, come illustrato in figura.

La lunetta frontale è bloccata

La lunetta frontale è sbloccata

12 **Fori di ventilazione**
Queste aperture consentono il flusso dell'aria dalla parte anteriore alla parte posteriore dell'unità NSR.
Non ostruire i fori di ventilazione né consentire alla polvere di accumularsi nei fori di ventilazione o di ostruire il flusso d'aria in qualsiasi modo. L'ostruzione del flusso d'aria consente l'accumulo di calore all'interno dell'NSR e può provocare incendi o danni.

Lato posteriore

NSR-1200/1100
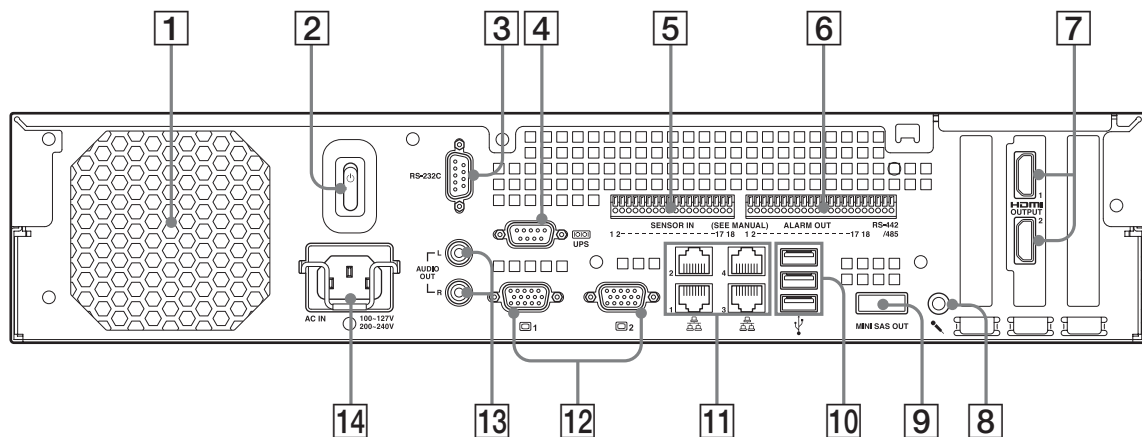
NSR-1050H
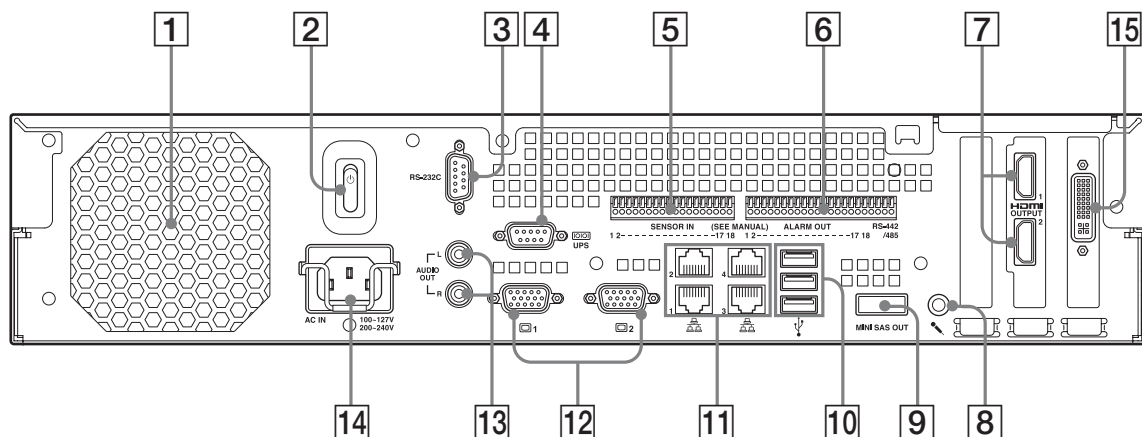
1 **Ventilatore**
Assicurarsi di non ostruire la griglia del ventilatore. In caso di ostruzione della griglia del ventilatore, il conseguente surriscaldamento dell'unità può causare danni o incendi.

2 **Interruttore di alimentazione**
Premere l'interruttore nella posizione ⏻ per accendere l'unità.

3 **Connettore RS-232C**
Utilizzare questo connettore per la gestione delle telecamere analogiche.
Questo connettore non può essere utilizzato contemporaneamente al connettore RS-422/485 (quattro piedini all'estrema destra sul connettore di uscita allarme 6).

4 **Connettore UPS (RS-232C)**
Utilizzare questo connettore per la linea di comando del gruppo di continuità (UPS).

5 **Connettore ingresso sensore**
Utilizzare questo connettore per collegare le linee di ingresso del sensore.
Per i dettagli di collegamento e gli schemi di connessione degli ingressi del sensore, vedere "Porta di I/O" (pagina 226).

6 **Connettore uscita allarme**
Utilizzare questo connettore per le linee di uscita allarme.
Per i dettagli di collegamento e uno schema di connessione dell'uscita di allarme, vedere "Porta di I/O" (pagina 226).

7 **Connettori monitor HDMI (1 e 2)**
Utilizzare questi connettori per i monitor che supportano l'ingresso HDMI.
Il connettore monitor HDMI 1 e il connettore monitor 12 1 (e il connettore monitor 1 sulla parte anteriore dell'unità) non possono essere utilizzati contemporaneamente; il connettore monitor HDMI 2 e il connettore monitor 12 2 non possono essere utilizzati contemporaneamente.

8 Connettore ingresso audio

Questo connettore consente l'ingresso di un segnale audio proveniente da una periferica audio, ad es. un microfono.

I microfoni con alimentazione a spina sono supportati.

9 Connettore di uscita mini-SAS

Utilizzare questo connettore per il cavo mini-SAS utilizzato per collegare un'unità NSRE-S200.
L'NSRE-S200 è un'unità di memoria di espansione opzionale.

10 Connettore USB

Utilizzare questo connettore per collegare all'unità NSR un mouse e tastiera USB o una memoria flash USB.

11 Connettori LAN (1 ~ 4)

Utilizzare questi connettori per collegare i cavi di rete 10 Base-T, 100 Base-TX o 1000 Base-T.

LAN1: Telecamere di rete
LAN2: Client remoti
LAN3: Utilizzato per espansione futura
LAN4: Utilizzato per espansione futura

12 Connettori monitor (1 e 2)

Utilizzare questi connettori per collegare un monitor.
Il connettore monitor 1 (e il connettore monitor 1 sulla parte anteriore dell'unità) e il connettore monitor HDMI 8 1 non possono essere utilizzati contemporaneamente, mentre il connettore monitor 2 e il connettore monitor HDMI 8 2 non possono essere utilizzati contemporaneamente.

13 Connettori uscita audio (S e D)

Utilizzare questi connettori per inviare un segnale audio a una periferica audio.

14 Connettore alimentazione

Utilizzare questo connettore per il cavo di alimentazione.

15 Connettore di ingresso del cavo della telecamera analogica

Utilizzare questo connettore per collegare le telecamere analogiche tramite il cavo di ingresso della telecamera analogica.

L'NSR-1050H è munita di serie di questo connettore, mentre l'NSR-1200/1100 richiede un'espansione NSBK-A16 (opzionale).

Dati di riferimento per l'installazione

Consumo di corrente e corrente di punta di entrata

Modello	Tensione di ingresso CA	Caricamento completo	Corrente di punta di entrata
NSR-1200	100 V	2.66 A	
	220 V	1.14 A	
NSR-1100	100 V	1.84 A	
	220 V	0.79 A	
NSR-1050H	100 V	1.75 A	13 A
	220 V	0.76 A	
NSRE-S200	100 V	0.79 A	
	220 V	0.34 A	

Capacità di memorizzazione per i dati registrati

Le capacità di memorizzazione per i dati registrati sull'NSR-1200/1100/1050H e la memoria di espansione opzionale sono le seguenti.

Modello	Capacità di memorizzazione per i dati registrati
NSR-1200	1.366 GB
NSR-1100	886 GB
NSR-1050H	443 GB
NSRE-S200	1.396 GB

* I dati di capacità sono approssimativi sulla base delle seguenti equazioni per 1 GB: $1024 \times 1024 \times 1024 = 1073740000$ byte

Guida alla durata di registrazione

Server	Memoria di espansione	Numero di telecamere	Codec (dimensioni)	Numero di giorni	Velocità in bit	Frequenza di frame
NSR-1050H	0 unità	8	MPEG4 (VGA)	10	512 kbps	10,00 fps
NSR-1100	0 unità	16	MPEG4 (VGA)	10	512 kbps	10,00 fps
NSR-1200	0 unità	16	MPEG4 (VGA)	16	512 kbps	10,00 fps
NSR-1200	7 unità	16	MPEG4 (VGA)	60	1.024 kbps	20,00 fps
NSR-1050H	0 unità	4	JPEG (VGA)	4	Livello 5	10,00 fps
NSR-1100	0 unità	4	JPEG (VGA)	10	Livello 5	8,00 fps
NSR-1200	0 unità	16	JPEG (VGA)	30	Livello 5	1,00 fps
NSR-1200	7 unità	16	JPEG (VGA)	30	Livello 5	9,00 fps

Numero di telecamere

Numero massimo di telecamere

Modello	Numero massimo di telecamere
NSR-1200	64
NSR-1100	32
NSR-1050H	20

Numero massimo di telecamere analogiche (incluse nel numero totale di telecamere)

Modello	Numero massimo di telecamere analogiche
NSR-1200	16 (con NSBK-A16 opzionale)
NSR-1100	16 (con NSBK-A16 opzionale)
NSR-1050H	16

Numero massimo di telecamere megapixel (incluse nel numero totale di telecamere)

Modello	Numero massimo di telecamere
NSR-1200	8
NSR-1100	4
NSR-1050H	4

Esempio) NSR-1050H (numero massimo di telecamere: 20)
Telecamere IP: 12
Telecamere IP (megapixel): 4
Telecamere analogiche: 4

Fasi preliminari

Passo 1: Installazione (pag 207)

↓

Passo 2: Collegamenti (pag 210)
Collegare ciascuna periferica all'unità.

↓

Passo 3: Impostazioni (pag 215)

Accendere l'unità

↓

Configurare le impostazioni iniziali con l'Installazione guidata.

↓

Effettuare il logon.

↓

Eseguire la configurazione base

Registrare automaticamente le telecamere.

Selezionare le telecamere da registrare.

Configurare la registrazione degli allarmi.

Configurare la registrazione pianificata.

↓

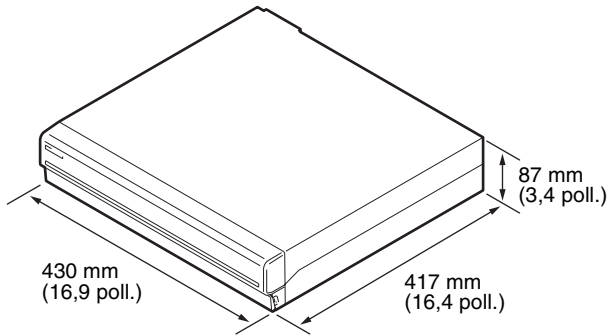**Passo 4: Verifica del funzionamento (pag 222)**

↓

Se è necessaria una configurazione avanzata
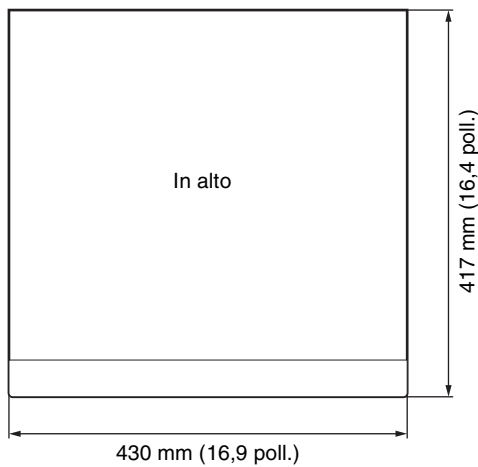Fare riferimento alla Guida per l'utente (PDF).

Passo 1: Installazione

Prima della configurazione, verificare che il luogo di installazione offra spazio e robustezza sufficienti per supportare l'unità.
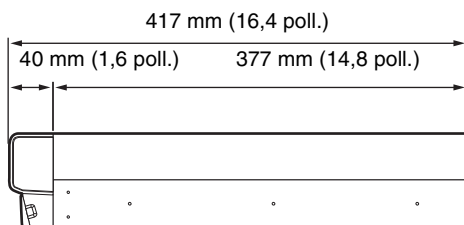L'unità NSR-1200 pesa circa 13,5 kg (29,8 lb), l'unità NSR-1100 circa 12 kg (26,7 lb) e l'unità NSR-1050H circa 11,5 kg (25.4 lb.). Le dimensioni dell'unità sono le seguenti.
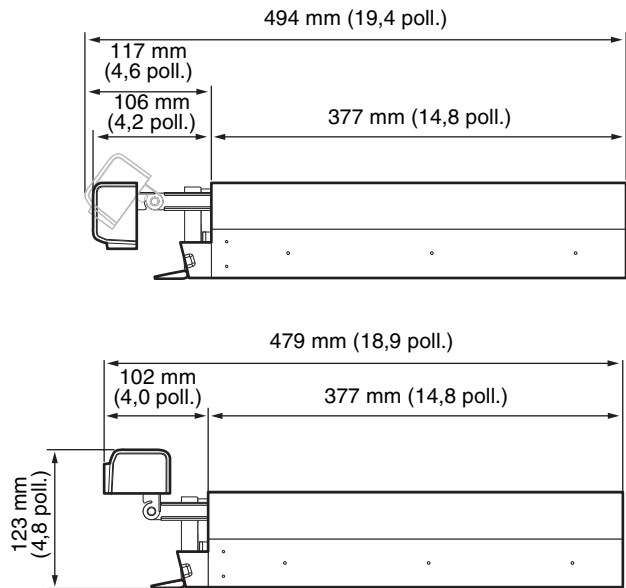
87 mm (3,4 poll.)

430 mm (16,9 poll.) 417 mm (16,4 poll.)

In alto

In alto

417 mm (16,4 poll.)

430 mm (16,9 poll.)

Quando la lunetta frontale è chiusa

417 mm (16,4 poll.)

40 mm (1,6 poll.) 377 mm (14,8 poll.)

Quando la lunetta frontale è aperta

494 mm (19,4 poll.)

117 mm (4,6 poll.)

106 mm (4,2 poll.) 377 mm (14,8 poll.)

479 mm (18,9 poll.)

102 mm (4,0 poll.) 377 mm (14,8 poll.)

123 mm (4,8 poll.)

È possibile installare l'apparecchio su rack utilizzando il kit di montaggio su rack opzionale.

Installazione senza rack

Fissare al registratore i piedini di gomma in dotazione. Posizionare il registratore in posizione verticale in modo che la superficie inferiore sia visibile. Quindi fissare le superfici adesive dei piedini di gomma alla parte inferiore del registratore, come mostrato nell'immagine qui sotto.

Rimuovere la pellicola

Piedino di gomma

Parte inferiore dell'unità
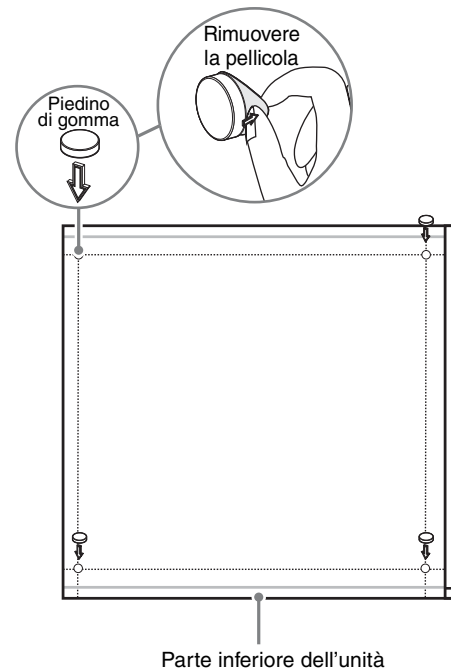
Installazione con montaggio a rack

Installare l'unità NSR in un rack utilizzando il kit di montaggio su rack opzionale (venduto a parte).

- Non utilizzare kit di montaggio in rack diversi da quello specifico per le unità NSR (venduto in opzione separatamente) per evitare possibili rischi di incendio, folgorazione o altri danni.
- Se si monta l'unità NSR in un rack, assicurarsi di non posizionare oggetti pesanti su di essa.
- Prima di montare l'unità NSR in un rack, si raccomanda di segnare nel rack la posizione desiderata con un pennarello. Il montaggio della NSR nel rack in posizione diversa da quella orizzontale può provocare malfunzionamenti.
- Per ordinare un kit di montaggio su rack, contattare il proprio rivenditore.

Estrazione delle guide interne

Estrarre le guide interne dai gruppi guida.

1 Estrarre la guida interna da uno dei gruppi guida fino a battuta.

Parte posteriore del gruppo guida

Guida interna
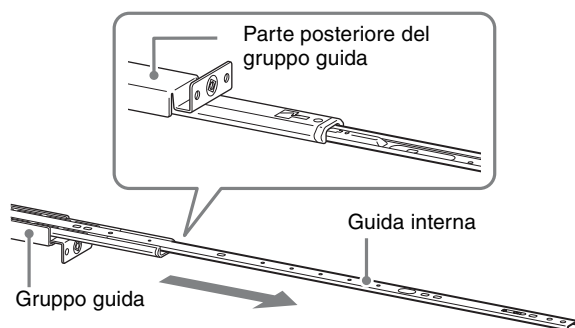
Gruppo guida

2 Capovolgere il gruppo guida. Tirando la linguetta verde verso l'esterno per rilasciare il blocco, estrarre completamente la guida interna.

Linguetta verde
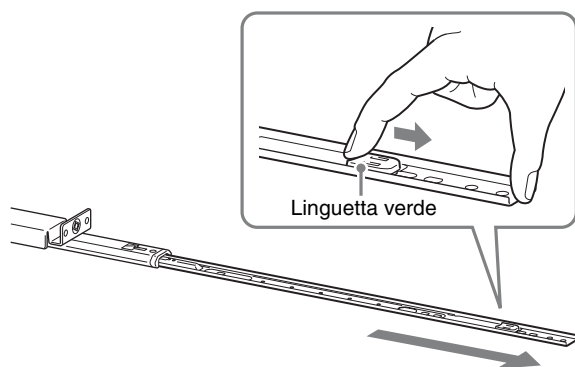
**3** Ripetere la stessa procedura con l'altro gruppo guida per estrarre la guida interna.

Nota

La guida interna verrà installata sulla NSR, mentre il gruppo guida verrà installato sul rack.
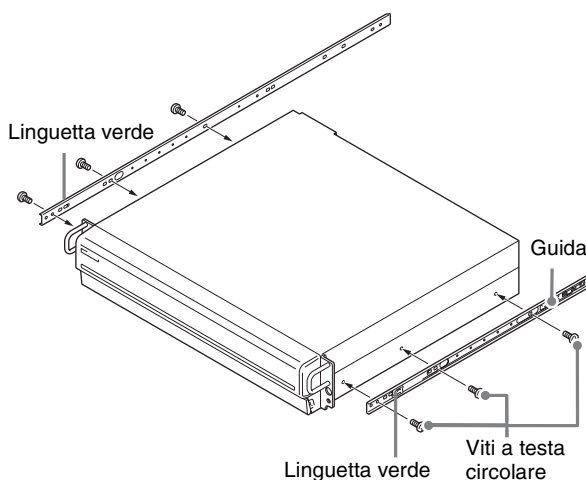
Preparazione dell'unità NSR

Utilizzare i dispositivi di fissaggio e le viti in dotazione per installare la guida interna sulla NSR.

1 Utilizzare le viti a testa piatta per collegare gli attacchi di montaggio alla parte anteriore del pannello laterale.

Attacco di montaggio

Viti a testa piatta
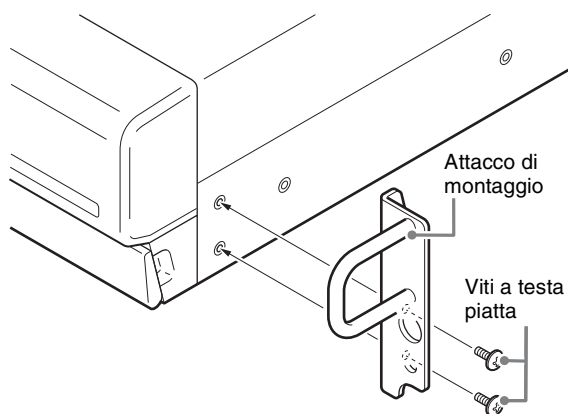
2 Utilizzare le restanti viti a testa circolare per installare le guide sulla NSR, come mostrato in figura.

Linguetta verde

Guida

Linguetta verde

Viti a testa circolare

Avvertenza

L'utilizzo di viti diverse da quelle in dotazione può comportare danni all'unità. Per montare le guide utilizzare esclusivamente le viti fornite in dotazione.

Preparazione del rack

Installare le guide sul rack.

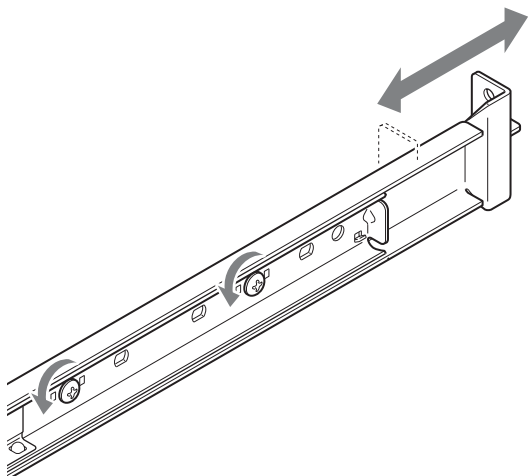**1** Decidere se installare le guide sul rack.

Si consiglia di segnare questa posizione con un evidenziatore o con un pennarello.
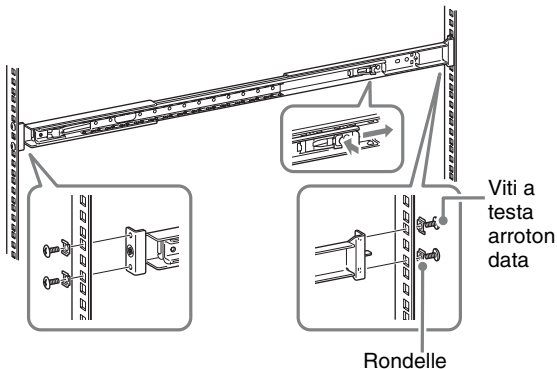
Se le guide vengono installate ad altezze differenti, possono verificarsi malfunzionamenti nella NSR.

2 Installare le guide sul rack.
   (1) Regolare la lunghezza delle guide in modo che corrispondano alla lunghezza del rack.

   (2) Utilizzare le viti a testa arrotondata in dotazione per fissare entrambe le guide al rack.

Viti a testa arrotondata

Rondelle

Montaggio su rack dell'unità NSR

Inserire la NSR nel rack, quindi fissarla.

Avvertenza

Per evitare infortuni è necessaria la presenza di almeno due persone per maneggiare l'unità.

1 Tirare le guide scorrevoli dai gruppi guida.
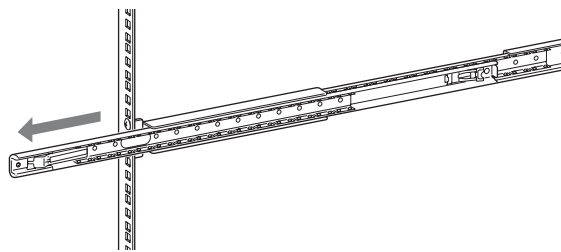
2 Sollevare la NSR, inserire le guide interne nelle scanalature (bianche) della guida scorrevole, quindi far scorrere il gruppo finché non si ferma.

Guida interna

3 Quando si tira verso l'interno la linguetta verde per rilasciare il blocco, far scorrere la NSR fino a battuta.

Linguetta verde

4 Utilizzare le viti a testa circolare in dotazione per fissare la NSR al rack.

Vite a testa circolare
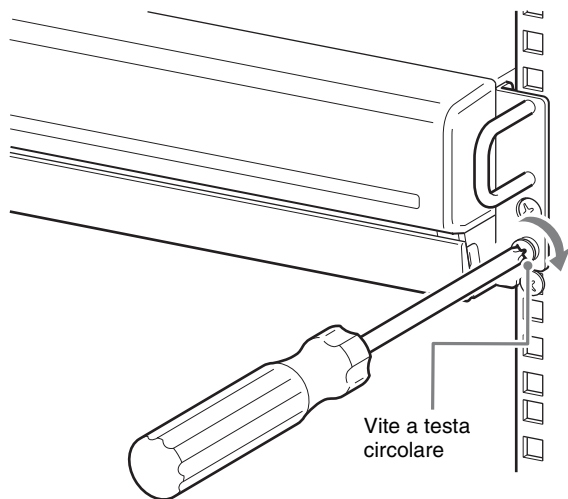
Installazione dei accessori opzionali

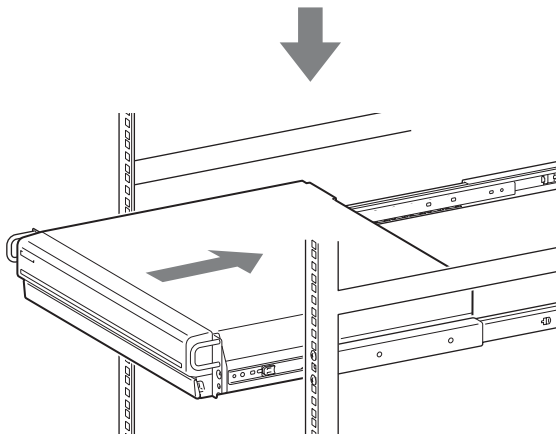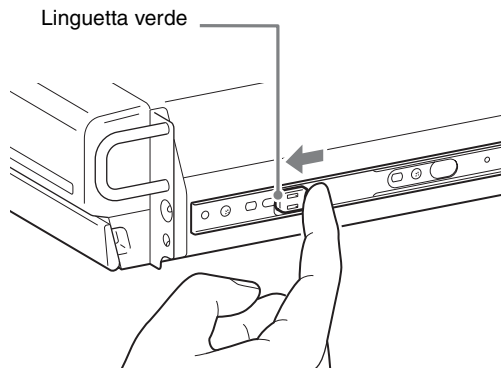Per ulteriori informazioni sull'installazione di NSRE-S200, consultare il Manuale di installazione NSRE-S200. Per ulteriori informazioni sull'espansione NSBK-A16, rivolgersi al rivenditore Sony.

Passo 2: Collegamenti

Collegare ciascuna periferica all'unità.

Collegamento di un monitor

Quando si collega un solo monitor, collegarlo al connettore monitor RGB analogico 1 oppure al connettore monitor HDMI 1.
Quando si collega un secondo monitor, collegarlo al connettore monitor RGB analogico 2 oppure al connettore monitor HDMI 2.
Per ulteriori informazioni, fare riferimento a "Esempi di collegamento del monitor" (pagina 223).

Esempio) Quando il collegamento avviene presso i connettori posteriori del monitor

Monitor 1

Connettore monitor 1
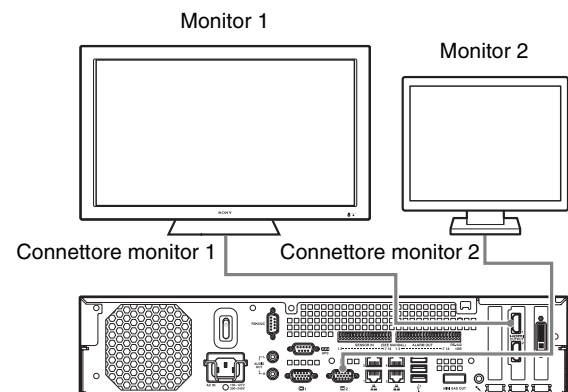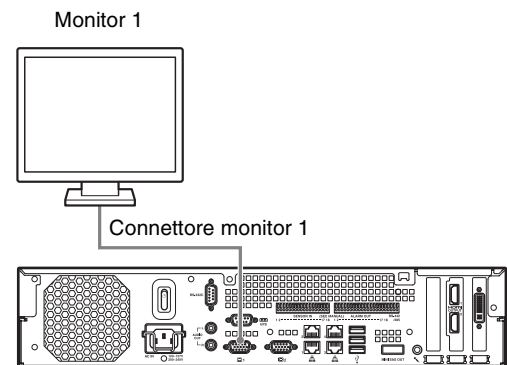
Monitor 1

Monitor 2

Connettore monitor 1   Connettore monitor 2

| Monitor		Connettori da utilizzare			
		Connettore monitor HDMI 1	Connettore monitor HDMI 2	Connettore monitor RGB analogico 1	Connettore monitor RGB analogico 2
Un solo monitor	Monitor HDMI	○	–	–	–
	Monitor RGB analogico	–	–	○	–
Due monitor	Monitor HDMI × 2	○	○	–	–
	Monitor RGB analogico × 2	–	–	○	○
	Monitor HDMI e monitor RGB analogico	○	–	–	○
		–	○	○	–

Note

- Esistono tre connettori del monitor etichettati con "1" (due analogici RGB; uno HDMI) e due connettori del monitor etichettati con "2" (uno analogico RGB; uno HDMI), ma è possibile utilizzarne solo uno ciascuno (1 e 2) contemporaneamente.
- Non accendere l'unità mentre i monitor sono collegati al connettore monitor RGB analogico 1 sulla parte anteriore e posteriore dell'unità.
- Quando l'apparecchio viene utilizzato con un solo monitor RGB analogico, non collegare il monitor al connettore monitor RGB analogico 1 sul retro dell'unità mentre l'unità è accesa.
- Quando si collegano due monitor RGB analogici, non utilizzare i connettori monitor HDMI.
- Quando si utilizzano i monitor HDMI, assicurarsi di collegare il monitor HDMI e accenderlo prima di accendere l'unità.
- Osservare le seguenti limitazioni quando si utilizza il connettore monitor RGB analogico 1 sulla parte anteriore dell'unità.
  - Non collegare i monitor al connettore monitor HDMI 1.
  - Non collegare al connettore monitor RGB analogico 1 sulla parte anteriore e quella posteriore dell'unità mentre l'unità è accesa. I monitor non vengono riconosciuti se si utilizzano entrambi i connettori.
- Quando i monitor sono collegati tramite un interruttore monitor, talvolta le immagini non vengono visualizzate. Si raccomanda di collegare i monitor direttamente all'unità.

Collegamento della tastiera, del mouse e del telecomando

Collegare i dispositivi ai connettori USB sulla parte anteriore e posteriore dell'unità.

Esempio) Quando il collegamento avviene presso i connettori USB sul retro
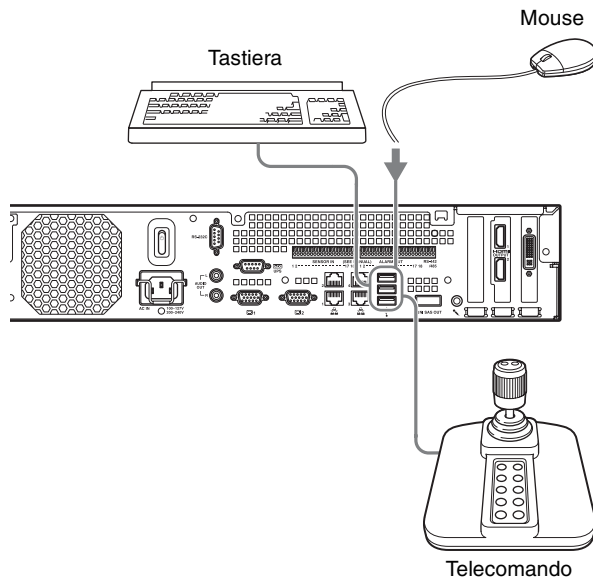
Note

- Questa unità supporta i controller USB Desktop IP di CH Products. Altri telecomandi non sono supportati.
- Quando si utilizzano dispositivi USB, non tralasciare di leggere prima "Precauzioni per l'utilizzo dei dispositivi USB" (pagina 198) nella sezione "Precauzioni per l'uso".

Collegamento del cavo di alimentazione

Collegare il cavo di alimentazione al connettore di alimentazione.
Bloccare il fermo di sicurezza per prevenire lo scollegamento del cavo di alimentazione.
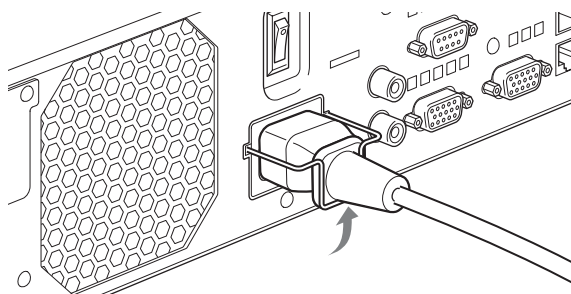
Attenzione

- Non tralasciare di leggere le "Informazioni importanti sull'installazione" (pagina 197) prima di installare l'unità. Quando si utilizza l'unità in combinazione con unità NSR multiple oppure con una NSRE-S200 opzionale, accertarsi che l'alimentazione sia sufficiente.
- Per ulteriori informazioni sul consumo di corrente e sulla corrente di punta di entrata per l'NSR-1200/1100/1050H e l'NSRE-S200, consultare "Dati di riferimento per l'installazione" (pagina 205).

Collegamento a una rete

Collegare la rete nel modo seguente.

Client remoto
Collegare il connettore LAN alla stessa rete utilizzata dal PC Windows in uso come client remoto.

RealShot Manager Advanced Software client

PC Windows

Interruttore di rete

Connettore LAN 2

Interruttore di rete

Connettori LAN 3 e 4 (destinati a espansioni future)

Telecamere di rete
Collegare il connettore LAN 1 alla stessa rete delle telecamere di rete.
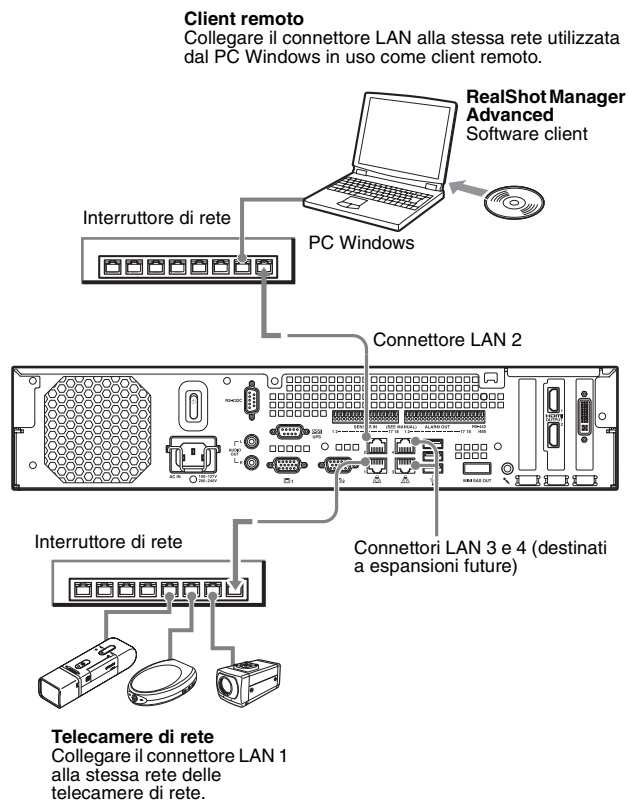
Collegamenti a client remoti

Quando è necessario un client remoto, è possibile utilizzare il software client RealShot Manager Advanced fornito con questa unità.

- Utilizzare la versione di RealShot Manager Advanced fornita con questa unità. Per ulteriori informazioni su come effettuare il download del programma di installazione per RealShot Manager Advanced, consultare "Download dei file memorizzati sull'NSR" (pagina 201). È possibile anche effettuare il download del programma di installazione dell'ultima versione di RealShot Manager Advanced dall'URL seguente. http://www.sony.co.jp/net/Products/RSMAd/license_form.html Per ulteriori informazioni sull'installazione e sul collegamento all'unità NSR, consultare la Guida all'installazione di RealShot Manager Advanced (PDF).
- Il software client RealShot Manager Advanced gira sui computer Windows. Per ulteriori informazioni sulle specifiche di sistema consigliate, consultare le note sulla versione incluse nell'archivio di installazione per software client RealShot Manager Advanced.
- Se si desidera usare RealShot Manager Advanced come controller remoto per l'unità NSR, selezionare [Client] durante l'installazione di RealShot Manager Advanced.
- Quando il collegamento avviene tramite rete locale dell'utente, utilizzare il connettore LAN 2.
- Per dettagli sulle impostazioni NSR quando si utilizza il software client RealShot Manager Advanced, vedere "Configurazioni per l'utilizzo del software client RealShot Manager Advanced" (pagina 221).

Connettori LAN 3 e 4 (destinati a espansioni future)

Dato che i connettori LAN 3 e 4 assicurano ridondanza di rete, si deve assegnare lo stesso indirizzo IP a entrambi i connettori. Collegare i connettori LAN 3 e 4 allo stesso switch di rete.
Quando entrambi i connettori LAN 3 e 4 sono collegati allo switch di rete, la comunicazione dati è abilitata per uno solo dei due connettori.
La rete attiva viene determinata all'avvio, e non è possibile specificare la rete da utilizzare. In caso di malfunzionamento della rete attiva e disabilitazione della comunicazione dati, la comunicazione riprende ricorrendo all'altra rete.
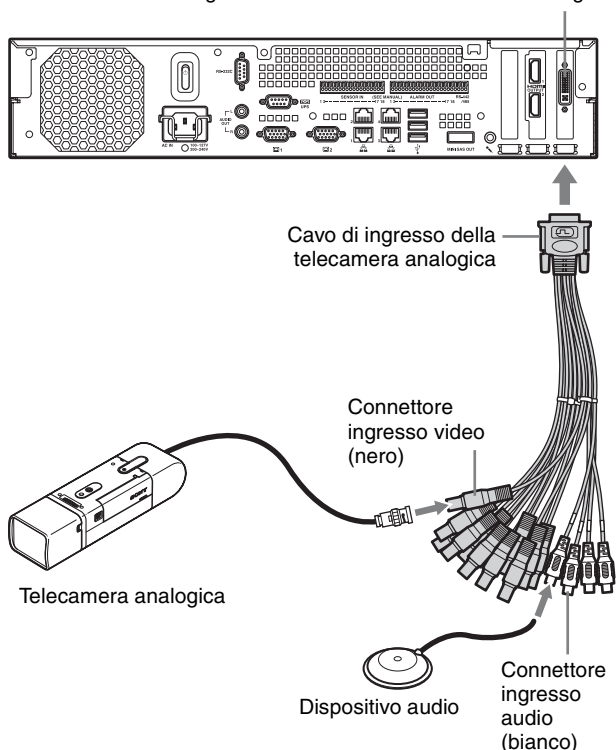
Note

- Gli indirizzi IP per questo apparecchio sono i seguenti:
  - Connettore LAN 1: 192.168.0.1
  - Connettore LAN 2: 192.168.1.1
  - Connettore LAN 3: 192.168.2.1
  - Connettore LAN 4: 192.168.2.1
- Per modificare gli indirizzi IP predefiniti, fare riferimento alla Guida per l'utente (PDF).
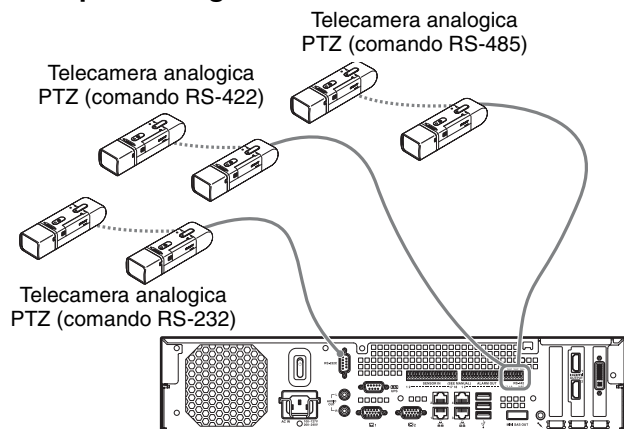
Collegamento della telecamera analogica

Collegare la telecamera analogica utilizzando il cavo di ingresso della telecamera analogica in dotazione.
Per controllare le operazioni Pan, Tilt e Zoom, collegare un cavo di comando della telecamera al connettore RS-232C o al connettore RS-422/485 (quattro piedini all'estrema destra sul connettore uscita allarme). (È possibile solo uno di questi connettori (RS-232C, RS-422, RS-485) alla volta).

Connettore di ingresso del cavo della telecamera analogica

Cavo di ingresso della telecamera analogica

Telecamera analogica

Connettore ingresso video (nero)

Dispositivo audio

Connettore ingresso audio (bianco)

Esempi di collegamento

Telecamera analogica PTZ (comando RS-485)

Telecamera analogica PTZ (comando RS-422)
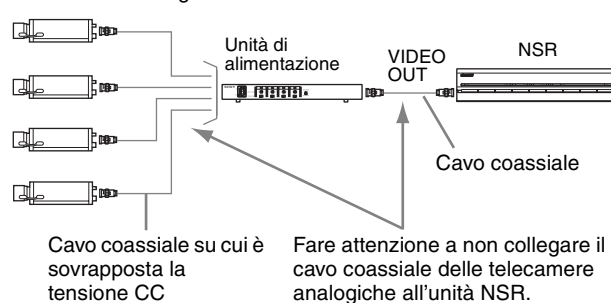
Telecamera analogica PTZ (comando RS-232)

Attenzione

Quando si utilizzano telecamere e unità di alimentazione che sovrappongono la tensione CC sul cavo coassiale video, fare estrema attenzione al cablaggio del cavo coassiale. Se il cavo della telecamera su cui è

sovrapposta la tensione CC è collegato all'unità NSR, possono verificarsi malfunzionamenti.

Telecamera analogica

Unità di alimentazione

VIDEO OUT

NSR

Cavo coassiale

Cavo coassiale su cui è sovrapposta la tensione CC

Fare attenzione a non collegare il cavo coassiale delle telecamere analogiche all'unità NSR.

Note

- L'NSR-1050H è munita di serie di connettore del cavo di ingresso per telecamera analogica, mentre l'NSR-1200/1100 richiede un'espansione NSBK-A16 (opzionale).
- Quando si utilizzano le operazioni Pan, Tilt e Zoom, configurare un numero di controllo univoco per ogni telecamera analogica mediante l'utilizzo di commutatori DIP o menu. Per ulteriori informazioni sulla configurazione dei numeri di controllo, fare riferimento alle istruzioni operative relative alle telecamere analogiche.
- Per ulteriori informazioni sulla piedinatura del connettore RS-422/485, consultare "Assegnazione dei pin della porta di I/O" (pagina 226).

Collegamento di un'unità NSRE-S200

Utilizzare il cavo mini-SAS in dotazione all'NSRE-S200 opzionale per collegare l'NSR-1200/1100/1050H all'unità NSRE-S200 come descritto di seguito.
È possibile collegare al NSR-1200/1100/1050H fino a sette unità NSRE-S200.
Per ulteriori informazioni sulle configurazioni di collegamento, fare riferimento a "Esempio di collegamento NSRE-S200" (pagina 224).
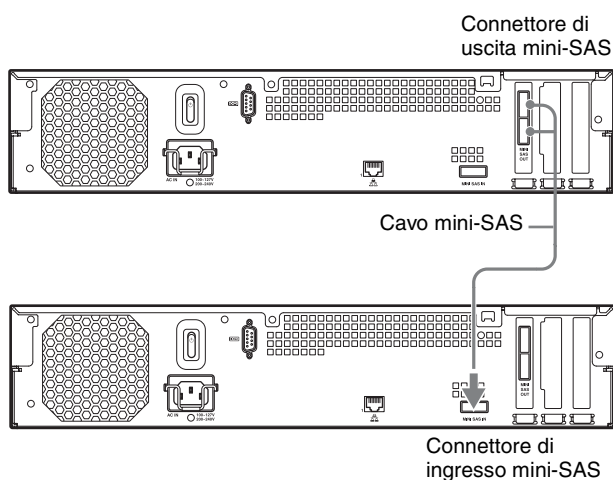
Nota

Accertarsi di collegare l'NSR-1200/1100/1050H e l'NSRE-S200 prima di accendere l'alimentazione.

Collegamento dell'NSR-1200/1100/1050H all'unità NSRE-S200

Cavo mini-SAS

Connettore di uscita mini-SAS

Connettore di ingresso mini-SAS
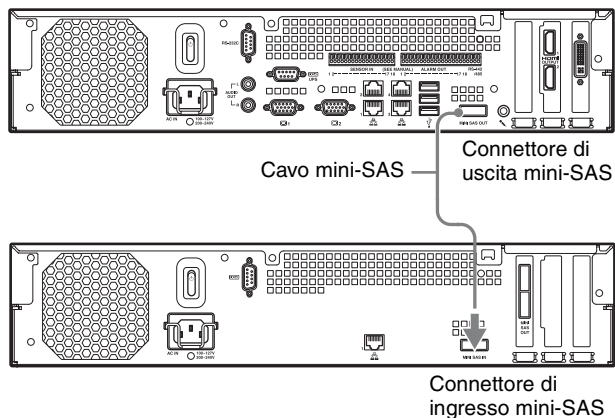
Collegamento di due unità NSRE-S200

Connettore di uscita mini-SAS

Cavo mini-SAS

Connettore di ingresso mini-SAS

Nota

I connettori di uscita mini-SAS superiore e inferiore sull'NSRE-S200 hanno funzioni identiche.

Collegamento di altre periferiche

Collegamento di ingressi di sensori e uscite di allarme

Collegare i cavi al connettore di ingresso del sensore e al connettore di uscita allarme.
Per ulteriori informazioni, fare riferimento a "Porta di I/O" (pagina 226).

Collegamento di un gruppo di continuità (UPS)

1 Collegare il UPS all'uscita di alimentazione.

2 Collegare l'unità NSR all'UPS con il cavo di alimentazione in dotazione.

3 Collegare l'unità NSR all'UPS con il cavo seriale dedicato al connettore seriale posto sul retro dell'NSR.

Cavo di alimentazione

Cavo seriale

Verso la fonte di alimentazione

UPS
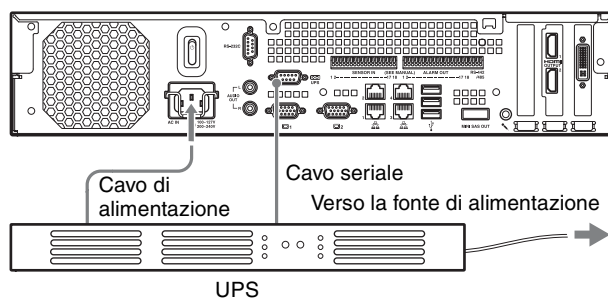
Collegamento di un dispositivo di uscita audio

Collegare il dispositivo di uscita audio ai connettori di uscita audio (S e D).

Cavo audio (S e D)
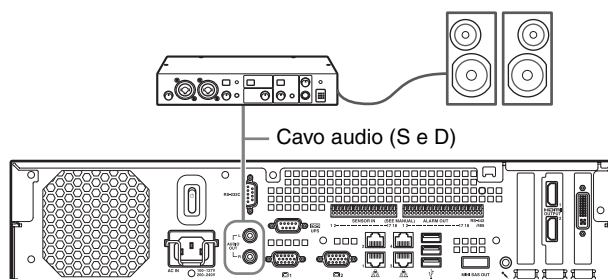
Passo 3: Impostazioni

Questa sezione fornisce informazioni su come accendere l'unità e indicazioni generali su come registrare le telecamere ed altri dispositivi.

Accensione dell'unità

Quando si preme l'interruttore di alimentazione sul lato anteriore o posteriore dell'unità, questa si accende. Quando si collega un'NSRE-S200 opzionale, attendere l'accensione dell'NSRE-S200 prima di accendere questo apparecchio.

Attenzione

Considerare la corrente di punta di entrata durante la configurazione dei collegamenti di alimentazione per i sistemi che includono unità NSR multiple oppure un'unità NSRE-S200. Per ulteriori informazioni sulla corrente di punta di entrata, consultare "Dati di riferimento per l'installazione" (pagina 205).

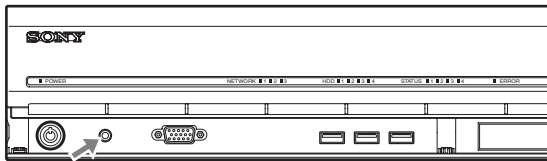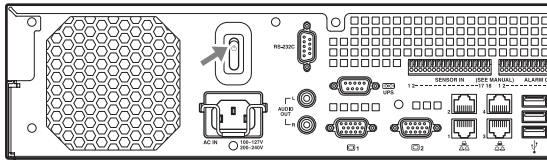### Interruttore di alimentazione sul lato anteriore

Interruttore di alimentazione sul lato posteriore

Il LED di alimentazione sul pannello anteriore è illuminato con luce verde quando l'unità è accesa.

Quando si accende l'unità per la prima volta, l'Installazione guidata viene avviata automaticamente. Continuare passando alla sezione successiva, "Configurazione delle impostazioni iniziali con l'Installazione guidata".

Note

- La ventola potrebbe essere rumorosa per circa 2 secondi dopo l'accensione dell'unità. Non si tratta di un malfunzionamento.
- Se l'unità è stata spenta mediante operazioni di sistema, premere il tasto di accensione sul pannello anteriore oppure l'interruttore di alimentazione sul pannello posteriore per accendere l'unità.
- Se in precedenza è stato effettuato uno spegnimento forzato, l'unità potrebbe impiegare più tempo per l'avvio.

Per spegnere l'unità

Dopo il logon sull'unità NSR, fare clic su ⏻ nella parte superiore della schermata principale e selezionare [Spegni] dal menu che viene visualizzato.

Nota

Normalmente, l'unità si spegne dopo alcuni minuti. Se dopo alcuni minuti l'unità non si spegne, forzare l'arresto premendo l'interruttore di alimentazione sul pannello posteriore dell'unità nella posizione ⏻ per almeno 5 secondi.

Configurazione delle impostazioni iniziali con l'Installazione guidata

Questa sezione illustra il flusso generale dell'Installazione guidata. Per maggiori dettagli sulle impostazioni, fare riferimento a "Modifica delle impostazioni di sistema" nella Guida per l'utente (PDF).

Quando si accende l'unità per la prima volta, l'Installazione guidata viene avviata automaticamente. È possibile configurare le stesse impostazioni successivamente accedendo alla schermata di logon, Menu amministrazione e quindi Menu Setup. Per ulteriori informazioni, fare riferimento a "Per accedere al Menu Setup dalla schermata di accesso" (pagina 219).

Avvertenza

Alcune voci visualizzate in inglese sulle schermate in questo manuale sono in italiano.

Quando si accende l'unità, l'Installazione guidata viene avviata dopo la visualizzata della schermata seguente.

Network Surveillance Server

↓

Fare clic su [Next].

NSR

- Setup Wizard -

↓
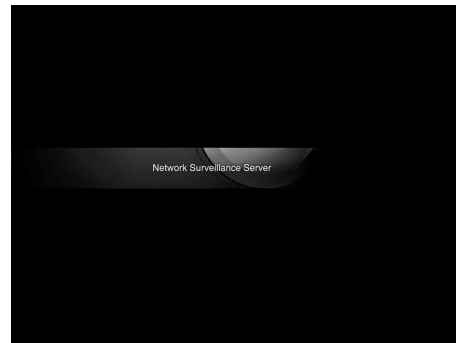
Leggere attentamente il Contratto di licenza con l'utente finale, fare clic su [Accept], quindi fare clic su [Next].

EULA

The following End-User License Agreement ("EULA") is a legal agreement between you and Sony Corporation ("SONY"). Under the EULA, you may use SONY's Software on Network Surveillance Server (the "Software"). By clicking the button "Accept" below, it is deemed that you agree to be bound by the terms and conditions of the EULA.

END-USER LICENSE AGREEMENT

Article 1. LICENSE

○ Accept ○ Decline

↓

Selezionare una lingua per il display, quindi fare clic su [Next].

Language

Chinese-Simplified
English
French
German
Italian
Japanese
Spanish
Russian

↓

Selezionare una lingua per la tastiera, quindi fare clic su [Avanti].

Keyboard

Chinese-Simplified
English
French
German
Italian
Japanese
Spanish
Russian

↓

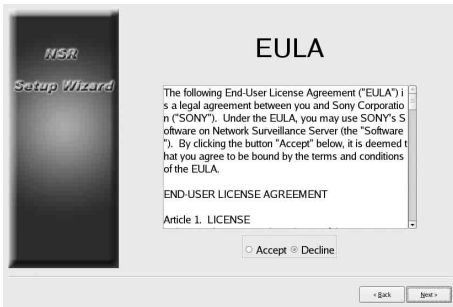Selezionare un fuso orario, quindi fare clic su [Avanti].

Time Zone

(GMT-11:00) Midway Island, Samoa
(GMT-10:00) Hawaii
(GMT-09:00) Alaska
(GMT-08:00) Pacific Time (US & Canada); Tijua
(GMT-07:00) Arizona
(GMT-07:00) Chihuahua, La Paz, Mazatlan
(GMT-07:00) Mountain Time (US & Canada)
(GMT-06:00) Central America (Guatemala)
(GMT-06:00) Central Time (US & Canada)'
(GMT-06:00) Guadalajara, Mexico City, Monter

↓

Impostare la data e l'ora, quindi fare clic su [OK].
• Quando si seleziona la casella di controllo [Enable NTP Server], l'unità funge da server NTP per la sincronizzazione di data e ora.
• Quando si seleziona la casella di controllo [Synchronize with NTP Server], è possibile sincronizzare la data e l'ora con un server NTP differente.
• Se non è possibile sincronizzare la data e l'ora con il server Windows come server NTP, è possibile selezionare la casella di controllo [Synchronize with Windows Server] per imporre la sincronizzazione con il server NTP Windows.

Date and Time

Year   Month Day
2008   9   30
Hour   Minute
21   5

Date Format
Year/Month/Day

□ Enable NTP Server
□ Synchronize with NTP Server
Address   192.168.1.150
□ Synchronize with Windows Server

↓
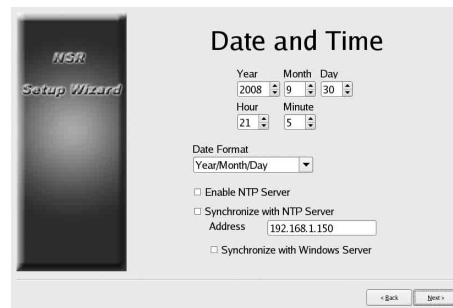
Impostare l'indirizzo IP di ciascun server, quindi fare clic su [OK].

General Network Setting

Primary DNS
Secondary DNS
Default Gateway

↓
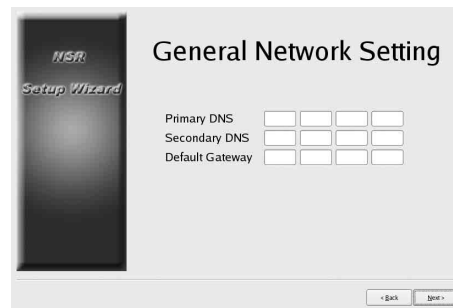
Impostare l'indirizzo IP per il connettore LAN 1, quindi fare clic su [Avanti].

↓
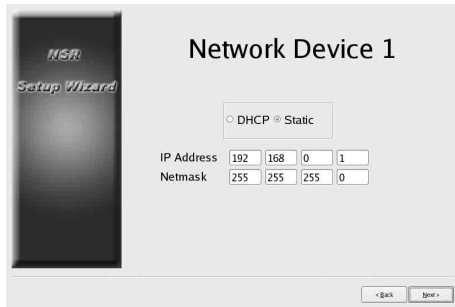
Impostare l'indirizzo IP per il connettore LAN 2, quindi fare clic su [Avanti].

↓
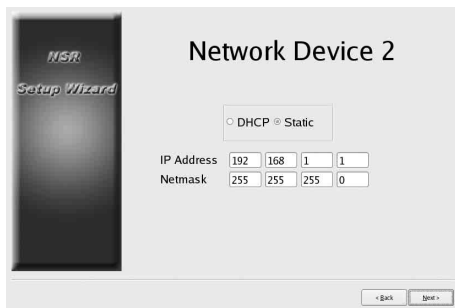
Impostare l'indirizzo IP per il connettore LAN 3, quindi fare clic su [Avanti].

↓
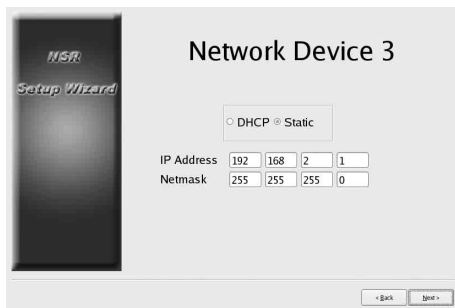
Configurare le impostazioni per il monitor 1, quindi fare clic su [Avanti].
• Se si seleziona [Auto], il tipo di monitor collegato e la relativa risoluzione vengono rilevati e configurati automaticamente.
  Per ulteriori informazioni sulle risoluzioni supportate, consultare "Requisiti di sistema" (pagina 200).
• Quando si collegano due monitor all'unità, selezionare la casella di controllo [Dual Head].

↓

Se si collega un secondo monitor, configurare le impostazioni relative al monitor 2.
Dopo aver configurato le impostazioni per il secondo monitor, riavviare l'unità mentre il secondo monitor è collegato

↓
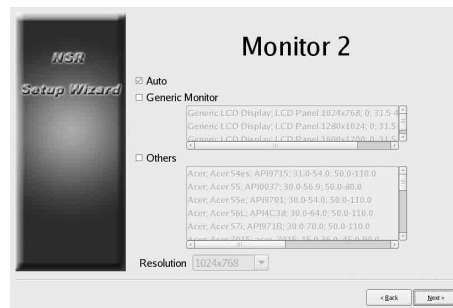
Selezionare quale connettore di uscita audio utilizzare, quindi fare clic su [Avanti].

↓
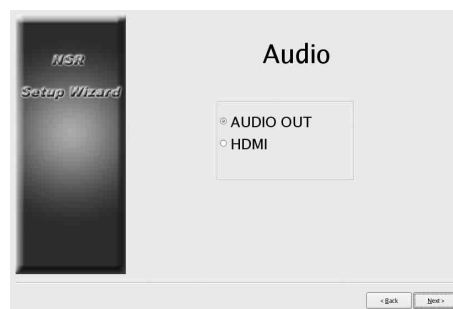
Configurare le partizioni dell'unità disco rigido interna, quindi fare clic su [Avanti].
Specificare il numero di partizioni e selezionare la percentuale della capacità totale da assegnare ad ogni partizione.

↓
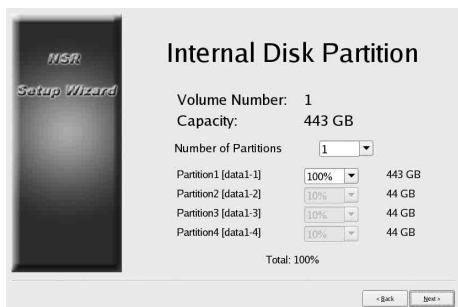
Impostare il nome del server, quindi fare clic su [OK].

↓
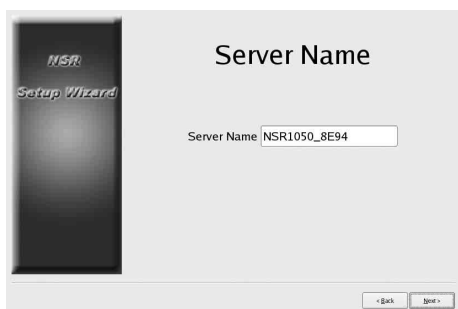
Configurare le impostazioni di collegamento delle telecamere analogiche, quindi fare clic su [Avanti].
Selezionare lo standard del connettore seriale a cui sarà collegata la fotocamera da gestire, e configurare le impostazioni quali la velocità di trasmissione e i bit di parità.
(Questa schermata viene visualizzata solo quando è collegata un'unità NSR-1050H o un'espansione NSBK-A16 (opzionale)).

↓
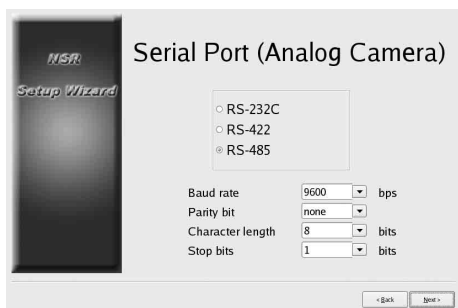
Selezionare il formato video delle telecamere analogiche da collegare, quindi fare clic su [Avanti].
(Questa schermata viene visualizzata solo quando è collegata un'unità NSR-1050H o un'espansione NSBK-A16 (opzionale)).

↓
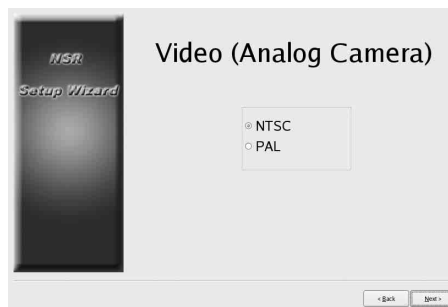
Verificare le configurazioni, quindi fare clic su [Avanti].

↓

Fare clic su [Fine] quando viene visualizzato il messaggio di conferma del riavvio.

↓
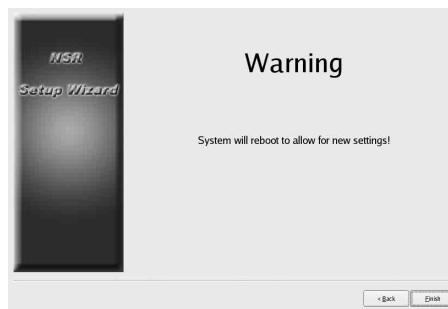
L'unità viene riavviata.

↓

Viene visualizzato la schermata principale.
Continuare passando alla sezione successiva, "Logon".

Per accedere al Menu Setup dalla schermata di accesso

① Fare clic su [Menu amministrazione].

↓

② Fare clic su [Menu Setup].
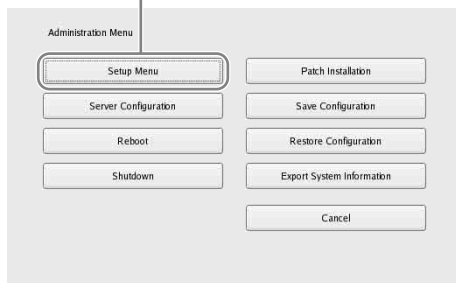
Logon

Immettere il nome utente e la password, quindi fare clic su [Logon].
Nome utente predefinito:admin
Password predefinita:admin

Una volta eseguito correttamente il logon, viene visualizzata la finestra di dialogo Autoregistrazione telecamera.
Continuare passando alla sezione successiva, "Esecuzione della configurazione base".

Esecuzione della configurazione base

Questa sezione descrive come registrare e configurare la registrazione di allarmi per dispositivi che vengono rilevati automaticamente. Per dettagli su registrare contemporaneamente tutti i dispositivi rilevati automaticamente, consultare la Guida introduttiva (documento separato).

Per registrare una telecamera
Selezionare [Apri più finestre di registrazione telecamera], quindi fare clic su [OK].

↓

I dispositivi sullo stesso segmento di rete vengono rilevati automaticamente.

↓

Selezionare le caselle di controllo delle telecamere che si desidera registrare, quindi fare clic su [Registrazione]. Per ulteriori informazioni sulle impostazioni, fare riferimento a "Registrazione di dispositivi" nella Guida per l'utente (PDF).

↓
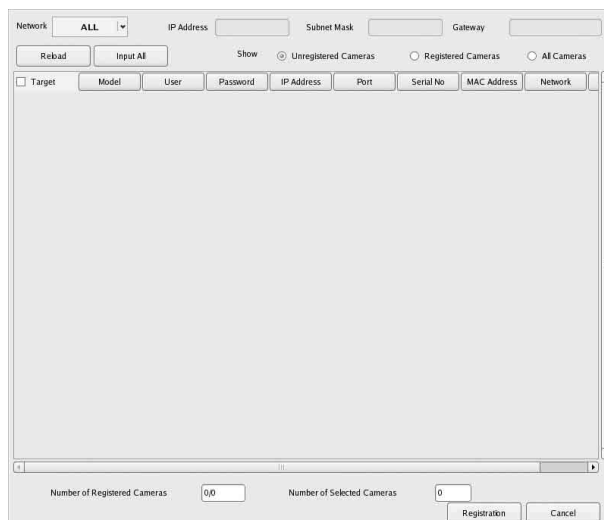
Ora le telecamere vengono registrate.

↓
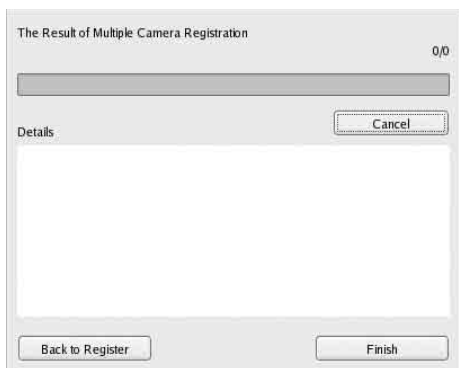
Per configurare la registrazione di allarmi
Selezionare [Registrazione allarme automatica], quindi fare su clic [Avanti].

↓
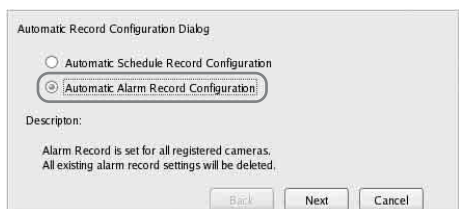
Viene visualizzato il messaggio di conferma.
Fare clic su [Successivo].

↓

Verificare le configurazioni, quindi fare clic su [Fine].

↓

Ha inizio la registrazione degli allarmi.

Una volta completata la configurazione, si apre la schermata principale.

Dopo l'esecuzione della configurazione base, i valori per ciascuna impostazione saranno come descritto di seguito.

Impostazione	Registrazione pianificata	Registrazione allarmi
Dimensioni immagine	Dimensioni massime dell'immagine supportate dalla telecamera.	
Codec	Codec che supporta le dimensioni massime dell'immagine. (Se sono supportati sia JPEG che MPEG4, è selezionato MPEG4).	
Frequenza di frame	JPEG: Dipende dalla durata di memorizzazione dei dati registrati. MPEG4: Dipende dalla velocità in bit.	JPEG: 10 fps MPEG4: 10 fps
Qualità	50% Livello 3 (telecamere con 5 livelli di impostazione) Livello 5 (telecamere con 10 livelli di impostazione)	80% Livello 5 (telecamere con 5 livelli di impostazione) Livello 8 (telecamere con 10 livelli di impostazione)
Velocità in bit	Dipende dalla durata di memorizzazione dei dati registrati.	MPEG4: 1,5 Mbp
Trigger di registrazione	–	VMD (Telecamera) VMD (Registratore) JPEG: Modo standard MPEG4: Modalità ad alte prestazioni
Percorso di memorizzazione dei dati	Invariata rispetto alla configurazione esistente.[1]	Invariata rispetto alla configurazione esistente.[1]
Audio	Disabilitata	Disabilitata
Sovrascrittura dati	Invariata rispetto alla configurazione esistente.	Invariata rispetto alla configurazione esistente.

Impostazione	Registrazione pianificata	Registrazione allarmi
Pulitura	Elimina i dati che sono superiori alla durata di archiviazione.	Invariata rispetto alla configurazione esistente.

1) Se l'utente non ha configurato le impostazioni del percorso di memorizzazione per la telecamera, la capacità sulla prima partizione del disco rigido interno dell'unità viene utilizzata per calcolare le altre impostazioni. Se l'utente ha configurato le impostazioni del percorso di memorizzazione, la capacità di ciascun percorso viene utilizzata per calcolare le altre impostazioni.

Attenzione

• Se le impostazioni di registrazione pianificata e di registrazione allarmi esistono già quando si esegue la "registrazione automatica", le configurazioni automatiche sostituiscono le impostazioni precedenti.
• Se i percorsi di memorizzazione della telecamera sono stati modificati in modo corretto, è possibile eseguire nuovamente la configurazione base per ricalcolare le altre impostazioni. Le impostazioni non saranno ricalcolate automaticamente.

Impostazioni che richiedono una configurazione specifica

Nei seguenti casi sono necessarie ulteriori operazioni di configurazione.

Impostazioni delle posizioni di memoria

Nelle impostazioni di configurazione base, i dati vengono memorizzati sulla prima partizione del disco rigido interno dell'unità.
Per ulteriori informazioni sulla registrazione dei dati su un'unità NSRE-S200 opzionale o su altre partizioni, fare riferimento alla Guida per l'utente (PDF).

Per la realizzazione di sistemi che includono unità NSR multiple o server RealShot Manager Advanced

Quando si configurano server multipli, è richiesta una configurazione specifica. Per ulteriori informazioni fare riferimento alla Guida dell'utente (PDF).

Impostazioni delle delle funzioni Pan, Tilt e Zoom per le telecamere analogiche

Configurare le impostazioni di Pan, Tilt e Zoom per telecamere analogiche come descritto di seguito dalla scheda [Controllo] di Configurazione dispositivo.
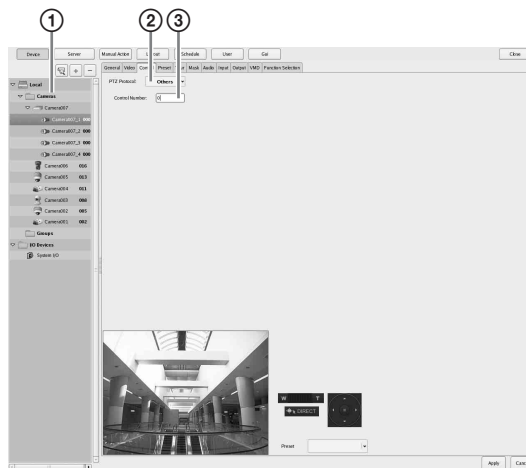
① Selezionare la telecamera analogica.
② Selezionare un protocollo in base alle impostazioni della telecamera analogica.
③ Immettere il numero di controllo configurato sulla telecamera analogica selezionata.

Nota

Per configurare queste impostazioni, è necessario aver configurato in precedenza la modalità di trasmissione nelle impostazioni "Serial Port" dell'Installazione guidata.

Impostazioni audio per le telecamere

Nelle impostazioni di configurazione base, l'audio è disabilitato. Per ulteriori informazioni sull'abilitazione dell'audio, fare riferimento alla Guida per l'utente (PDF).

Configurazioni per l'utilizzo del software client RealShot Manager Advanced

Configurare le impostazioni seguenti sull'unità NSR che fungerà da server principale. Per ulteriori informazioni su queste impostazioni, fare riferimento alla Guida dell'utente (PDF).

1 Configurare le seguenti impostazioni nella schermata Configurazione server del Menu amministrazione.
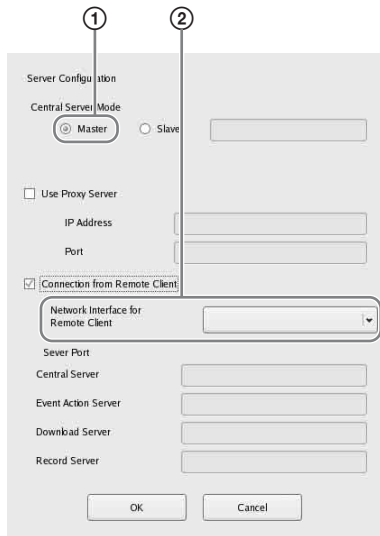
① Selezionare [Master] in [Modalità server centrale].
② Selezionare l'interfaccia di rete per il collegamento in [Interfaccia di rete per cliente remoto] sotto [Collegamento da client remoto].

2 Creare un utente nel server master.
Fare clic su ⊞ (aggiungi) nella schermata Configurazione utente, e creare un utente.
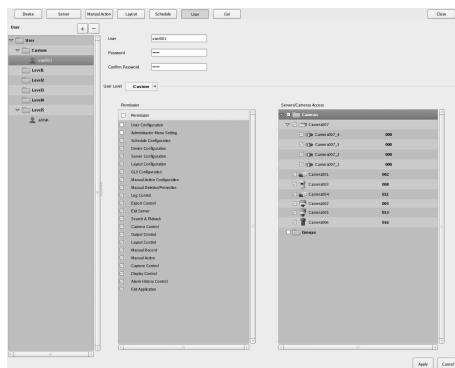
Passo 4: Verifica del funzionamento

Una volta terminate le configurazioni di base, accertarsi che le immagini della telecamera vengano visualizzate nella schermata principale e verificare altre operazioni del genere.

① Modificare la disposizione e visualizzare immagini dalle telecamere registrate.
Trascinare una telecamera dal riquadro Telecamere a un'inquadratura del monitor per visualizzare le immagini da questa telecamera.
② Fare clic su un'inquadratura del monitor per attivarla (blu chiaro) e controllare Pan, Tilt e Zoom dalla scheda [Controllo] del riquadro Comando telecamera.
③ Verificare le occorrenze dell'allarme quando gli oggetti passano davanti alla telecamera.
Se è stata configurata la registrazione allarmi con la configurazione base, un riquadro rosso circonda l'inquadratura del monitor, e in Cronologia allarme nella parte inferiore della schermata viene visualizzata una registrazione di ogni allarme.
④ Per ulteriori informazioni specifiche su ciascuna funzione, consultare la Guida alle funzioni della finestra Monitoraggio (documento separato).
⑤ Fare clic su [PLAYBACK] per riprodurre le registrazioni.
Facendo clic su [PLAYBACK], vengono riprodotte le immagini configurate in precedenza (riproduzione veloce).
Quando si inserisce una data e un'ora e si seleziona [GO], vengono riprodotte le immagini registrate.
⑥ Fare clic sulla spia [ERROR] in basso a destra nella schermata per controllare se si sono verificati errori.
Se viene visualizzato il registro di sistema quando si seleziona la spia [ERROR], è possibile controllare se si sono verificati problemi esaminando il registro.

Per ulteriori informazioni sulle funzioni della schermata principale, fare riferimento alla Guida alle funzioni della finestra Monitoraggio (documento separato) o alla Guida per l'utente (PDF).

Attenzione

Quando si collega una periferica USB all'unità, potrebbe accendersi la spia [ERROR] in basso a destra nella schermata "Principale". Ciò indica che l'unità potrebbe non supportare il dispositivo USB. Per ulteriori informazioni consultare "Precauzioni per l'uso" (pagina 197) oppure "Una periferica esterna collegata a un connettore USB non funziona." (pagina 228) nella sezione "Ricerca ed eliminazione dei problemi".

Quando si utilizza RealShot Manager Advanced come client remoto

Procedere come descritto di seguito per verificare il funzionamento.

1 Accesso a RealShot Manager Advanced.
- Specificare il server durante l'accesso. Specificare la porta "8082" per l'indirizzo del server IP.
- Immettere il nome utente e la password configurata nella schermata schermata Configurazione server (page 222) per il [nome utente] e la [password].
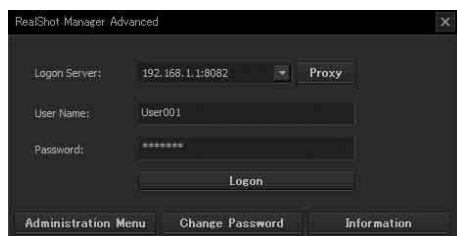
2 Nella schermata principale di RealShot Manager Advanced, assegnare le immagini alle inquadrature del monitor dalle telecamere collegate all'unità. Per assegnare le telecamere sono disponibili due metodi.
- Trascinare una telecamera collegata all'unità dal riquadro Telecamere all'inquadratura del monitor.
- Fare clic su un fotogramma del monitor per selezionarlo, quindi fare doppio clic su una telecamera nel riquadro Telecamere.

3 Verificare che le immagini dalla telecamera selezionata al passaggio 2 vengono visualizzate nell'inquadratura del monitor.

Esempi di collegamento

Esempi di collegamento del monitor

Questa unità supporta svariate combinazioni di collegamento del monitor. Fare riferimento agli esempi di collegamento seguenti.

Nota

È possibile selezionare l'output di audio RCA oppure di audio HDMI nella schermata Audio dell'Installazione guidata o nel Menu Setup.

Esempio 1) Quando si collegano due monitor HDMI

Amplificatore audio
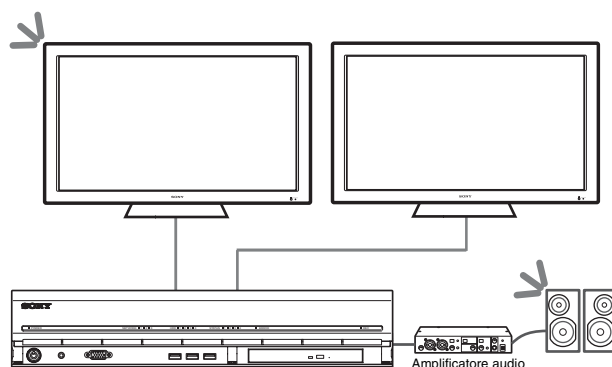
↘ : ubicazione delle uscite audio.

Nota

Assicurarsi di collegare i monitor HDMI e accenderli prima di accendere l'unità.

Esempio 2) Quando si collegano due monitor RGB analogici

Amplificatore audio
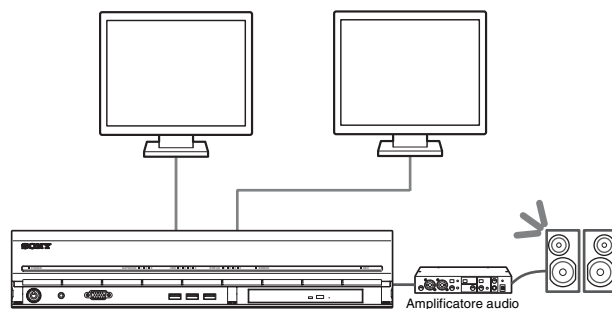
↘ : ubicazione delle uscite audio.

- Non collegare i monitor ai connettori monitor HDMI 1 e 2.
- Non collegare un monitor al connettore monitor 1 sulla parte anteriore dell'unità mentre l'unità è accesa.

Esempio 3) Quando si collega un monitor HDMI e un monitor RGB analogico (monitor HDMI analogico utilizzato per il funzionamento)

Amplificatore audio (collegare ai connettori di uscita audio (L/R))
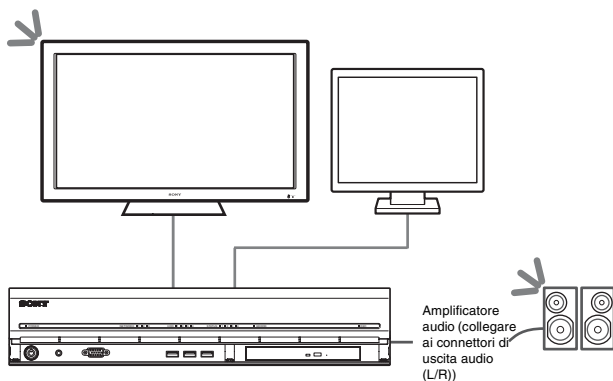
↘ : ubicazione delle uscite audio.

- Non collegare un monitor al connettore monitor HDMI 2.
- Quando si utilizzano i monitor HDMI, assicurarsi di collegare il monitor HDMI e accenderlo prima di accendere l'unità.

Esempio 4) Quando si collega un monitor HDMI e un monitor RGB analogico (monitor RGB analogico utilizzato per il funzionamento)

Amplificatore audio
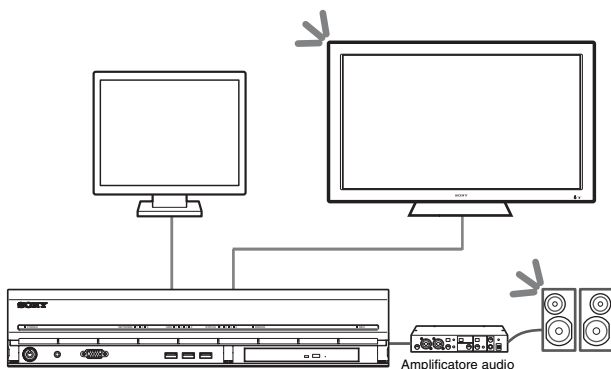
↘ : ubicazione delle uscite audio.

- Non collegare un monitor al connettore monitor HDMI 1.
- Non collegare un monitor al connettore monitor 1 sulla parte anteriore dell'unità mentre l'unità è accesa.

Esempio di collegamento NSRE-S200

È possibile collegare fino a sette unità NSRE-S200 opzionali all'NSR-1200/1100/1050H nelle seguenti configurazioni ad albero.

Il cavo mini-SAS utilizzato per il collegamento è in dotazione all'unità NSRE-S200.

Collegare le espansioni NSRE-S200 nell'ordine seguente.

NSR-1200/1100/1050H

NSRE-S200

NSRE-S200

NSRE-S200
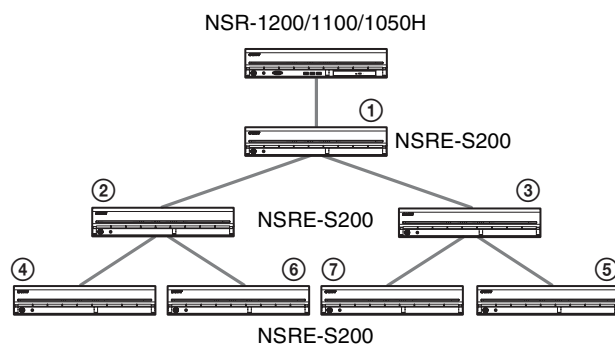
Varie

LED di stato

Quando si verifica un errore nell'unità, il LED DI ERRORE sul pannello anteriore dell'unità lampeggia o si illumina a seconda dello stato di errore e il LED DI STATO si illumina.

```
STATUS  ▮1 ▮2 ▮3 ▮4          ▮ ERROR
```

Il LED di stato indica le seguenti situazioni di errore.

Codici di errore visualizzati durante la sequenza di avvio
(Se durante la squenza di avvio si verifica un errore, il LED di errore lampeggia.)

Codice errore	LED di stato	LED di errore	Possibile causa
1	1 2 3 **4**	Lampeggiante	Mancanza tensione di alimentazione
2	1 2 **3** 4	Lampeggiante	Guasto alla ventola della CPU
3	1 2 **3 4**	Lampeggiante	Modulo di memoria guasto
4	1 **2** 3 4	Lampeggiante	Guasto alla batteria CMOS
5	1 **2** 3 **4**	Lampeggiante	Guasto al memoria ad accesso casuale video (RAM) oppure controller
6	1 **2 3** 4	Lampeggiante	Guasto al controller del disco rigido
7	1 **2 3 4**	Lampeggiante	Impossibile trovare una periferica per l'avvio
8	**1** 2 3 4	Lampeggiante	Impossibile trovare un sistema operativo per l'avvio
9	**1** 2 3 **4**	Lampeggiante	Guasto a uno o più dischi rigidi
A	**1** 2 **3** 4	Lampeggiante	Errore volume RAID SO
B	**1** 2 **3 4**	Lampeggiante	Impossibile avviare il server X11
C	**1 2** 3 4	Lampeggiante	Impossibile avviare l'applicazione
D	**1 2** 3 **4**	Lampeggiante	Riservato per un utilizzo futuro
E	**1 2 3** 4	Lampeggiante	Riservato per un utilizzo futuro
F	**1 2 3 4**	Lampeggiante	Errore volume di dati RAID

Codici di errore visualizzati durante il funzionamento
(Se durante il funzionamento si verifica un errore, il LED di errore si accende.)

| Codice errore	LED di stato	LED di errore	Possibile causa
1	1 2 3 **4**	Acceso	Temperatura critica
2	1 2 **3** 4	Acceso	Guasto alla ventola della CPU
3	1 2 **3 4**	Acceso	Guasto alla ventola dell'alimentazione
4	1 **2** 3 4	Acceso	Mancanza di tensione di alimentazione
5	1 **2** 3 **4**	Acceso	Guasto alla ventola 1 del disco rigido
6	1 **2 3** 4	Acceso	Guasto alla ventola 2 del disco rigido
7	1 **2 3 4**	Acceso	L'unità disco rigido è danneggiata.
8	**1** 2 3 4	Acceso	Riservato per un utilizzo futuro
9	**1** 2 3 **4**	Acceso	Riservato per un utilizzo futuro
A	**1** 2 **3** 4	Acceso	Riservato per un utilizzo futuro
B	**1** 2 **3 4**	Acceso	Errore del sistema operativo
C	**1 2** 3 4	Acceso	Malfunzionamento dell'applicazione
D	**1 2** 3 **4**	Acceso	La spia [ERROR] nella schermata principale è accesa
E	**1 2 3** 4	Acceso	Errore volume dati RAID
F	**1 2 3 4**	Acceso	Il volume dati RAID è in fase di ricostruzione

▮ indica che il LED DI STATO o il LED DI ERRORE è acceso.

Porta di I/O

Assegnazione dei pin della porta di I/O

Sensor In

N. pin	SENSOR IN
1	3.3 v
2	IN_8 –
3	IN_8 +
4	IN_7 –
5	IN_7 +
6	IN_6 –
7	IN_6 +
8	IN_5 –
9	IN_5 +
10	IN_4 –
11	IN_4 +
12	IN_3 –
13	IN_3 +
14	IN_2 –
15	IN_2 +
16	IN_1 –
17	IN_1 +
18	GND

Alarm Out

N. pin	Alarm Out
1	GND
2	OUT_8 –
3	OUT_8 +
4	OUT_7 –
5	OUT_7 +
6	OUT_6 –
7	OUT_6 +
8	OUT_5 –
9	OUT_5 +
10	OUT_4 –
11	OUT_4 +
12	OUT_3 –
13	OUT_3 +
14	OUT_2 –
15	OUT_2 +
16	OUT_1 –
17	OUT_1 +
18	3.3 v

RS-422/485

N. pin	RS-422	RS-485
19	TX-	TX-
20	TX+	TX+
21	RX-	
22	RX+	

Utilizzo di una presa I/O

Inserire un piccolo cacciavite ad intaglio nella fessura superiore o inferiore del foro a cui si desidera collegare un filo (n. AWG da 28 a 18). Tenere premuto il cacciavite e inserire il filo, quindi rilasciare il cacciavite.

Avvertenza

Quando si inserisce il cacciavite nella fessura, non applicare una forza eccessiva per evitare il danneggiamento.
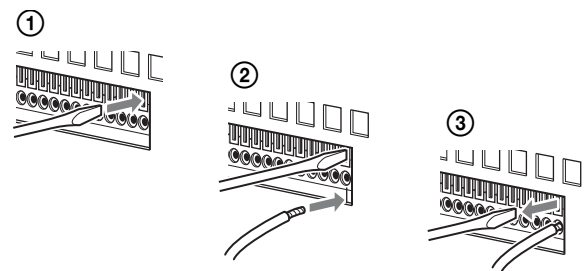
Ripetere questa procedura per collegare tutti i cavi necessari.

Schema di connessione 1 per l'ingresso del sensore

Interno di questa unità   Esterno

Pin 3, 5, 7, 9, 11, 13, 15, 17 (SENSOR IN+)

2.35 kΩ

Sensore Uscita: da 3,3 a 24 V CC

Pin 2, 4, 6, 8, 10, 12, 14, 16 (SENSOR IN-)

Schema di connessione 2 per l'ingresso del sensore

Interno di questa unità   Esterno

Pin 1 (VDD) (max 200 mA)

Pin 3, 5, 7, 9, 11, 13, 15, 17 (SENSOR IN+)

Filo

2.35 kΩ

Interruttore meccanico

oppure

Pin 2, 4, 6, 8, 10, 12, 14, 16 (SENSOR IN-)

Pin 18 (GND)

GND

Uscita a collettore aperto

Nota

Quando si utilizza lo schema di connessione 2, l'NSR non è isolato elettricamente; occorre quindi costruire circuiti esterni che non producano rumore, eccessi di tensione o sovracorrenti.

Schema di connessione per uscita allarme

Interno di questa unità   Esterno

Pin 3, 5, 7, 9, 11, 13, 15, 17 (ALARM IN+)

5 V

Relè magnetico a 24 V CA/24 V CC, max 1 A

Esempio di circuito

Pin 2, 4, 6, 8, 10, 12, 14, 16 (ALARM IN-)

GND

Ricerca ed eliminazione dei problemi

Prima di contattare il proprio rivenditore o un centro di assistenza Sony, leggere quanto riportato di seguito. Se il problema persiste, contattarli.

La NSR non funziona.

- Verificare che l'interruttore di alimentazione sia acceso.
- Verificare che il cavo di alimentazione sia collegato correttamente.

- Assicurarsi che la presa a muro sia alimentata, collegando un altro apparecchio.
- Verificare che non sia in corso nessun accesso ai dischi rigidi (i LED del disco rigido sul lato anteriore del registratore non lampeggiano) e forzare lo spegnimento ten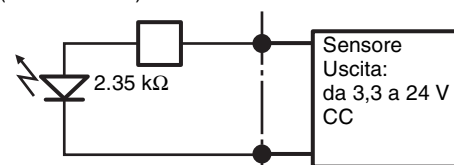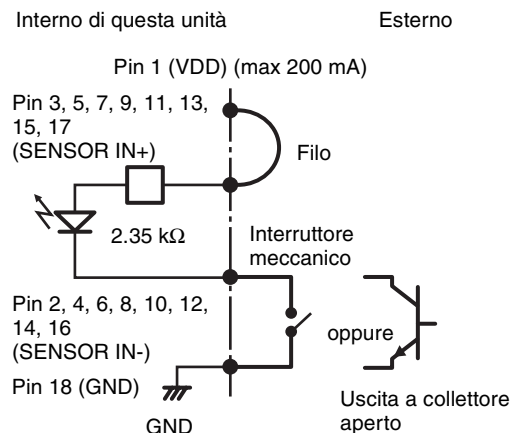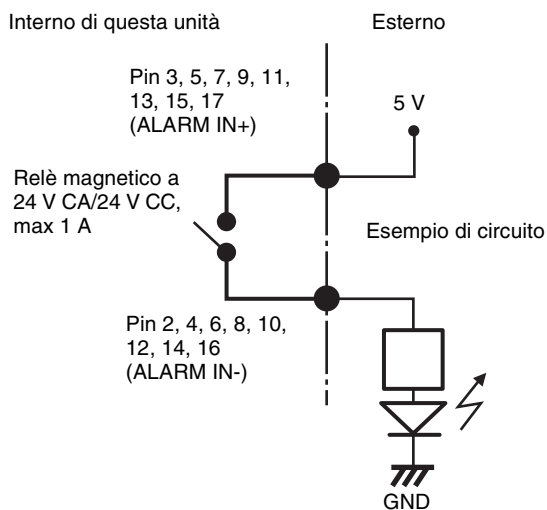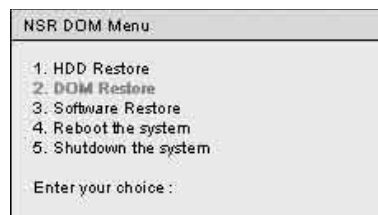endo premuto l'interruttore di alimentazione sul lato posteriore dell'apparecchio per circa 10 secondi. Riavviare l'unità NSR.
- Durante la procedura di avvio, l'unità NSR verifica il file system. La durata di questo controllo dipende dalla quantità di dati presenti sull'unità NSR (in casi estremi, può durare anche due ore). Durante la verifica del file system i LED disco rigido sul lato anteriore del registratore lampeggiano.
- Se l'unità NSR non si avvia correttamente, può apparire la seguente schermata.

```
NSR DOM Menu

1. HDD Restore
2. DOM Restore
3. Software Restore
4. Reboot the system
5. Shutdown the system

Enter your choice :
```

In tal caso procedere nel modo seguente.
1. Selezionare "5. Shutdown the system" e premere il tasto Enter.
2. Facendo riferimento all'errore "Impossibile accedere al disco rigido", verificare che i dischi rigidi dell'unità NSR siano collegati correttamente.
3. Riavviare l'unità NSR e verificare se si avvia regolarmente.

Il monitor non visualizza nessuna immagine.

- Verificare che l'unità NSR sia accesa.
- Verificare che il cavo di alimentazione sia collegato correttamente.
- Verificare che il cavo del monitor sia collegato correttamente. Verificare che il monitor sia collegato al connettore monitor 1.
- Se viene configurata un'errata risoluzione del monitor, potrebbe essere visualizzato il messaggio "Fuori campo" quando la risoluzione del monitor è troppo ridotta rispetto all'output del monitor. In tal caso, premere ripetutamente CTRL+ALT+SEGNO DI MENO per ridurre la risoluzione dell'uscita video. Quando la risoluzione dell'uscita video raggiunge un valore compatibile con il monitor, viene visualizzata l'immagine video. A questo punto riconfigurare la risoluzione del monitor. Per ulteriori informazioni fare riferimento alla Guida dell'utente (PDF).

Il monitor collegato al connettore HDMI non viene visualizzato correttamente.

• Se si commuta l'ingresso per il monitor HDMI o si ricollega il cavo, in alcuni casi è possibile che le immagini non vengano visualizzate correttamente. In tali casi, tentare la procedura descritta di seguito.
  1. Commutare l'ingresso per il monitor.
  2. Riavviare il monitor.

Nota

Se il problema persiste dopo aver effettuato quanto descritto sopra, scollegare il cavo HDMI e proseguire il funzionamento con il monitor RGB analogico. Quando è opportuno arrestare il funzionamento, riavviare l'unità e tentare di ricollegare il monitor HDMI.

Il nuovo hardware esterno non funziona correttamente.

• Verificare che i cavi della nuova periferica esterna siano ben collegati e che i piedini non siano piegati.

Una periferica esterna collegata a un connettore USB non funziona.

• Quando si collega una periferica USB all'unità, potrebbe accendersi la spia [ERROR] in basso a destra nella schermata "Principale". Procedere come descritto di seguito per verificare se l'unità supporta il dispositivo USB.
  1. Poi fare clic sulla spia [ERROR].
     Si apre il registro di sistema.
  2. Verificare se viene visualizzato l'errore "Unsupported USB device" nel registro di sistema.
     Se viene visualizzato "Unsupported USB device", l'unità non supporta i dispositivi USB.
• Questa unità supporta le periferiche di archiviazione di massa USB 2.0 standard. A seconda del tipo di dispositivo di memorizzazione di massa USB 2.0, tuttavia possono verificarsi errori durante la scrittura dei dati sulla periferica. Se si verificano errori durante la scrittura dei dati, utilizzare un dispositivo di memorizzazione USB di tipo diverso.
• Per garantire un funzionamento corretto dei dispositivi USB, non collegare le periferiche mediante un hub USB. Collegare i dispositivi direttamente ai connettori USB sull'apparecchio. Il corretto funzionamento non può essere garantito se la connessione dei dispositivi è realizzata tramite un hub USB, uno switch hub oppure un cavo di prolunga.
• Fare riferimento alla documentazione fornita con il dispositivo USB.

Il sistema non riesce a leggere i dati sul disco DVD o CD.

• Assicurarsi che sia utilizzato un disco di tipo compatibile.
• Assicurarsi che il disco DVD o CD sia inserito correttamente nell'unità.
• Verificare che il DVD o CD sia pulito e non sia graffiato.

Impossibile aprire il vassoio DVD/CD.

• Verificare che l'unità NSR sia accesa.
• Inserire lentamente la punta di una penna o di un fermaglio metallico nel foro di espulsione dell'unità CD/DVD. Estrarre il vassoio e rimuovere il disco.

Il LED di rete non si accende.

• Verificare che il collegamento dei cavi e dell'apparecchiatura di rete sia corretto.

Impossibile accedere al disco rigido.

• Verificare che il disco rigido sia inserito correttamente.
• Controllare i LED del disco rigido sul pannello anteriore del sistema. Individuare il disco rigido difettoso osservando i LED dell'unità. Il LED di un disco rigido difettoso non si accende.
• In caso di accesso frequente al disco rigido, il LED corrispondente può lampeggiare molto rapidamente e sembrare spento in ambienti luminosi.

Impossibile accedere all'unità NSR da un client remoto.

• Accertarsi che l'unità NSR funzioni correttamente e non siano presenti anomalie relative a dischi rigidi, rete, software o altro.
• Accertarsi che le impostazioni del server centrale dell'unità siano corrette.
• Verificare che in RealShot Manager Advanced siano stati impostati correttamente nome utente, password e porta di connessione.
• Fare riferimento alla sezione Risoluzione dei problemi della Guida utente di RealShot Manager Advanced.

L'unità NSR si surriscalda rapidamente

• Verificare che le aperture di ventilazione sul fronte, sui lati e sul retro dell'apparecchio non siano ostruite e che non si sia accumulata polvere in tali aperture.

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

Caratteristiche tecniche

NSR-1200/1100/1050H

Processore

CPU   NSR-1200: Quad Core Xeon
               NSR-1100: Dual Core Xeon
               NSR-1050H: Dual Core Xeon

Memoria

Memoria flash di bordo
               4 GB
Memoria interna   NSR-1200:2 GB
               NSR-1100:1 GB
               NSR-1050H:1 GB

Dispositivi di registrazione

Disco rigido interno
               NSR-1200: 2 TB
                   (SATA-II 500 GB × 4)
               NSR-1100: 1 TB
                   (SATA-II 500 GB × 2)
               NSR-1050H: 500 GB
                   (SATA-II 500 GB × 1)
               Le capacità delle unità disco rigido
                   sono basate sull'equazione
                   seguente per 1 GB:
               $1.000 \times 1.000 \times 1.000 = 1$
                   miliardo di byte
Unità DVD/CD (anteriore)
               1 unità
               Dischi compatibili: DVD+R, DVD-
               R,
               DVD-ROM, CD-R, CD-RW,
               CD-ROM

Connettori esterni

Anteriore   Uscita monitor:
                   Analogica RGB (mini D-SUB a
                   15 piedini) (1)
                USB: USB 2.0 (3)
Posteriore   Uscita monitor:
                   Analogica RGB (mini D-SUB a
                   15 piedini) (2)
                   HDMI (2)
               Uscita audio (S) (1)
               Uscita audio (D) (1)
               Ingresso audio (1)
               LAN (1000Base-T/100Base-TX/
                   10Base-T) (RJ-45) (4)
               USB: USB 2.0 (3)
               Uscita mini-SAS (per il
                   collegamento di NSRE-S200
                   opzionale, mini-SAS x4 (SFF-
                   8088), 3,0 Gbit/s) (1)

Ingresso sensore (compatibile con periferiche da 3,3 V a 24 V CC, ingresso fotoaccoppiatore, isolato da unità principale) (8)

Uscita allarme (max. 24 V CC, 1 A, uscita relè meccanico, isolato da unità principale) (8)

UPS seriale: RS-232C (1)

Gestione di telecamere analogiche (solo con l'unità NSR-1050H o l'espansione NSBK-A16): RS-232C (1) RS-422/485 (1)

Condizioni di funzionamento

Temperatura di esercizio
da 5 °C a 40 °C (da 41 °F a 104 °F)

Umidità di esercizio
da 20% a 80% (massima temperatura bulbo umido: 30 °C, senza condensazione)

Gamma di temperature di deposito
–20 a +60 °C (–4 a +140 °F)

Gamma di umidità di deposito
20 a 90% di umidità relativa (massima temperatura psicrometro 35 °C/+95 °F, senza condensa)

Alimentazione e varie

Alimentazione
da 100 a 127 V CA/da 200 a 240 V CA (50/60 Hz)

Consumo di corrente
Max. 350 W

Dimensioni 430 × 87 × 417 mm (16.9 × 3.4 × 16.4 in.)
(L/A/P, escluse le sporgenze)

Massa NSR-1200: circa 13,5 kg (29,8 libbre)
NSR-1100: circa 12 kg (26,7 libbre)
NSR-1050H: circa 11,5 kg (25,4 libbre)

Accessori opzionali

NSR-RM1 Kit di montaggio su rack
NSBK-A16 Kit encoder analogico
Unità di memoria di espansione NSRE-S200

Aspetto e specifiche tecniche soggetti a cambiamenti senza preavviso.

Note
- Eseguire sempre una registrazione di prova, e verificare che il contenuto sia stato registrato correttamente. LA SONY NON SARÀ RESPONSABILE DI DANNI DI QUALSIASI TIPO, COMPRESI, MA SENZA LIMITAZIONE A, RISARCIMENTI O RIMBORSI A CAUSA DI GUASTI DI QUESTO APPARECCHIO O DEI SUOI SUPPORTI DI REGISTRAZIONE, SISTEMI DI MEMORIZZAZIONE ESTERNA O QUALSIASI ALTRO SUPPORTO O SISTEMA DI MEMORIZZAZIONE PER REGISTRARE CONTENUTI DI QUALSIASI TIPO.
- • Verificare sempre che l'apparecchio stia funzionando correttamente prima di usarlo. LA SONY NON SARÀ RESPONSABILE DI DANNI DI QUALSIASI TIPO, COMPRESI, MA SENZA LIMITAZIONE A, RISARCIMENTI O RIMBORSI A CAUSA DELLA PERDITA DI PROFITTI ATTUALI O PREVISTI DOVUTA A GUASTI DI QUESTO APPARECCHIO, SIA DURANTE IL PERIODO DI VALIDITÀ DELLA GARANZIA SIA DOPO LA SCADENZA DELLA GARANZIA, O PER QUALUNQUE ALTRA RAGIONE.

Índice

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- Para consultar todos los términos y condiciones de la garantía de la grabadora, consulte la tarjeta de garantía que se adjunta en el paquete.
- El software suministrado con la grabadora no puede utilizarse con otras grabadoras.
- No se puede instalar ningún software en el equipo que no sea el software específico suministrado por Sony para utilizar con este equipo.
- Tenga en cuenta que las especificaciones de la grabadora y del software suministrado están sujetas a cambios para introducir mejoras sin previo aviso.
- La grabadora utiliza el algoritmo MD5 de alta seguridad para guardar las contraseñas.

Renuncia de responsabilidad por el contenido de las grabaciones

Sony Corporation no aceptará en ningún caso responsabilidad alguna por problemas que surjan a partir de errores en la grabación, por daños o por el borrado de grabaciones con el equipo. Esto incluye reclamaciones de indemnización por grabaciones y por daños concomitantes o resultantes. Sony Corporation no reparará, restituirá ni copiará ningún material grabado. El uso de este producto está sujeto a estas condiciones.

Antes de leer este manual

Asegúrese de leer el suplemento "Normativa de seguridad".

ES

Precauciones de uso

Información importante de seguridad

- Asegúrese de conectar la unidad a una fuente de alimentación completamente compatible con las especificaciones eléctricas de la unidad.
- Utilice solamente el cable de alimentación suministrado. No enrolle el cable de alimentación ni lo sujete con otros cables. No realice conexiones a enchufes con tomas delanteras y traseras. Si se exceden los valores nominales actuales, existe el riesgo de incendio u otros accidentes.
- Asegúrese de que todas las tomas de corriente de ca y los cables de alimentación estén bien conectados a tierra.
- No utilice la unidad con la cubierta o la caja abierta o extraída. De lo contrario, existe el riesgo de incendio o descarga eléctrica. No intente abrir o extraer la cubierta o caja usted mismo. Consulte siempre con su proveedor si debe abrirla.

Información importante de instalación

Ubicaciones de uso/almacenamiento
Para prolongar la vida del producto, no lo utilice ni lo guarde en las siguientes ubicaciones:
- Lugares que pueden calentarse o enfriarse mucho. (Sigo las especificaciones de este dispositivo y por favor lo uso.)
- Lugares expuestos a la luz directa del sol durante tiempo prolongado o cerca de aparatos de calefacción. (Tenga en cuenta que la temperatura en un vehículo cerrado en verano puede exceder los +50 °C/+122 °F.)
- Lugares con mucha humedad o polvo
- Lugares sujetos a fuertes vibraciones
- Lugares sometidos a fuertes campos magnéticos
- Lugares cercanos a transmisores de radio o televisión que crean un fuerte campo magnético

No bloquee las aberturas de ventilación
- Las aberturas de ventilación que se encuentran a los lados de la unidad sirven para evitar el calentamiento interno. Deje siempre un espacio de al menos 10 cm en ambos lados y en la parte posterior y superior de la unidad.
- No utilice la unidad en una caja u otro receptáculo cerrado.

- Asegúrese de que no hay cables ni otros objetos cerca de la abertura de ventilación en la parte posterior de la unidad. Si la abertura se bloquea, puede producirse un calentamiento interno y provocar un incendio o daños en el equipo.
- Asimismo, si la unidad está instalada en un bastidor, debe comprobar que la abertura de ventilación de la parte posterior y las aberturas de ventilación de la parte frontal no estén bloqueadas por cables u otros objetos. No instale la unidad en un entorno en el que no puedan cumplirse los requisitos anteriores.

Utilice la unidad en posición horizontal
- La unidad está diseñada para utilizarse en posición horizontal.
- No instale la unidad sobre una superficie inclinada y protéjala de los golpes.
- Si la unidad se cae o es sometida a golpes fuertes, pueden producirse daños muy graves en la misma.
- Si instala la unidad en un bastidor, asegúrese de mantenerla en posición horizontal. Si la unidad no está bien nivelada, puede producirse un fallo de funcionamiento. Asimismo, se recomienda sujetar firmemente el bastidor en una pared o similar para que no pueda volcar.

Mantenimiento
- Antes de limpiar la unidad o realizar cualquier tipo de mantenimiento, asegúrese de desconectar el cable de alimentación de la toma de corriente de ca.
- Limpie la caja y los paneles con un paño seco. Para eliminar manchas persistentes, humedezca el paño con un detergente suave, neutro y pase después un paño seco.
- No utilice alcohol, disolventes, bencina, insecticidas ni ninguna sustancia volátil, ya que podrían dañar el acabado y causar decoloración.
- Es posible que se acumule polvo en las aberturas de ventilación de la parte frontal de la unidad. Cuando limpie la unidad, asegúrese de no exponerla a golpes ni vibraciones.

Transporte
Utilice el material de embalaje original o similar para proteger la unidad de golpes.

Precauciones para productos con discos duros incorporados

Esta unidad tiene un disco duro incorporado (HDD). El disco duro es un dispositivo de precisión. Si somete la unidad a golpes, vibraciones, electricidad estática o temperaturas y humedad elevadas, podría perder datos. Tenga en cuenta las siguientes precauciones cuando instale o utilice la unidad.

Protección frente a golpes y vibraciones

Si somete la unidad a golpes o vibraciones, el disco duro podría resultar dañado y ocasionar la pérdida de datos.

- Utilice el material de embalaje especificado cuando transporte la unidad. Cuando la transporte en una carretilla o similar, utilice una que no transmita excesivas vibraciones. Un exceso de golpes o vibraciones puede dañar el disco duro.
- No mueva nunca la unidad mientras esté conectada. Asimismo, antes de extraer o insertar la unidad en un bastidor, asegúrese de que la alimentación está desconectada.
- Proteja de golpes todos los dispositivos del bastidor equipados con disco duro.
- Antes de extraer o insertar la unidad en un bastidor, asegúrese de que la alimentación de todos los dispositivos equipados con disco duro de la unidad también está apagada.
- No extraiga los paneles o las partes exteriores de la unidad.
- Cuando instale la unidad en el suelo o en otra superficie, asegúrese de que está equipada con la base especificada y colóquela con cuidado. Si no tiene una base, monte primero la base especificada.
  No coloque la unidad cerca de otros dispositivos que puedan convertirse en fuente de vibraciones.

Espere 30 segundos después de apagar la alimentación

Durante un breve intervalo después de apagar la alimentación, los platos dentro del disco duro seguirán girando y los cabezales se encontrarán en una posición poco segura. Durante este intervalo, la unidad es más susceptible a golpes y vibraciones que durante el funcionamiento normal. Durante un período de al menos 30 segundos después de apagar la unidad, evite someterla incluso al mínimo golpe. Después de este período, el disco duro se detendrá completamente y podrá manipularse la unidad.

Precauciones relativas a la temperatura y a la humedad

Utilice y guarde la unidad solamente en lugares donde no se excedan los rangos especificados de temperatura y humedad. (Sigo las especificaciones de este dispositivo y por favor lo uso.)

Si el disco duro parece defectuoso

Incluso si el disco duro muestra signos de mal funcionamiento, asegúrese de tener en cuenta todas las precauciones anteriores. Esto evitará que se produzcan más daños hasta que se pueda diagnosticar el problema y corregirlo.

Sustitución del disco duro y de otros consumibles

El disco duro, el ventilador y la batería de la unidad son consumibles que necesitan ser sustituidos periódicamente. Si utiliza la unidad a temperatura ambiente, el ciclo de sustitución normal será de dos a tres años. Sin embargo, esto representa solo una directriz general y no constituye ninguna garantía de su vida útil. Para obtener más información acerca de la sustitución de componentes, póngase en contacto con el distribuidor.

Precauciones en la utilización de dispositivos USB

- Esta unidad admite dispositivos de almacenamiento masivo estándar USB 2.0. Sin embargo, en función del tipo de dispositivo de almacenamiento masivo USB 2.0, es posible que se produzcan errores al escribir datos en el dispositivo. Si se producen errores durante la escritura de datos, utilice un dispositivo de memoria USB de tipo diferente.
- Para garantizar un funcionamiento adecuado de los dispositivos USB, no los conecte a través de un concentrador USB. Conecte los dispositivos directamente a los conectores USB de la unidad. El funcionamiento no se garantiza si se conectan dispositivos a través de un concentrador USB, un selector USB o un cable prolongador.

Descripción general

La serie NSR es un servidor de grabación de disco duro para cámaras de red. La unidad NSR permite supervisar y grabar imágenes de una cámara de red (JPEG o MPEG-4). También permite reproducir las imágenes grabadas y realizar búsquedas, lo cual convierte a la unidad NSR en un sistema de supervisión realmente versátil.

Control de cámaras compatibles desde ubicaciones remotas

Es posible llevar a cabo operaciones de rotación, inclinación y zoom con cámaras compatibles.

Compatibilidad con cámaras analógicas

Es posible supervisar y grabar imágenes desde cámaras analógicas conectándolas directamente a la unidad[1] .

1) La NSR-1200/1100 requiere una extensión NSBK-A16 (opcional), mientras que la NSR-1050H dispone de un conector incorporado.

Los discos duros de gran capacidad permiten efectuar grabaciones de períodos de tiempo prolongados

Equipada con discos duros de gran capacidad, la unidad es capaz de grabar imágenes de alta calidad durante períodos de tiempo prolongados. Para obtener ejemplos de referencia, consulte "Datos de referencia para la instalación" (página 252).

Tipo fino (2U), modelo de montaje en estantería de 50 cm. que permite ahorrar espacio

Con el kit de montaje de estanterías opcional (se vende por separado), es posible instalar la grabadora en una estantería EIA estándar de 50 cm (medida universal).

Grabación de alta resolución de hasta 480 fps (VGA, JPEG)

La NSR-1200 admite hasta 64 cámaras, la NSR-1100 hasta 32 y la NSR-1050H hasta 20. La NSR-1200 graba imágenes a una velocidad de fotogramas total de 480 fps[1] (240 fps con la NSR-1100, 120 fps con la NSR-1050H) en resolución VGA (640×480 píxeles)[2] y en formato de imagen JPEG (1 fotograma equivale aproximadamente a 31 KB) para obtener una calidad de imagen nítida.

1) Velocidad de fotogramas máxima cuando se encuentran 16 cámaras conectadas a la grabadora. Cada cámara dispone de una velocidad de fotogramas de aproximadamente 30 fps. Es posible que esta velocidad de fotogramas sea inferior debido a la fragmentación de los discos duros internos. Los valores están basados en mediciones efectuadas por Sony. Estos valores no están garantizados, debido a que es posible que el rendimiento cambie según al entorno operativo del usuario.
2) Con resolución QuadVGA (1.280×960), la velocidad de fotogramas es de 1/4 la de la resolución VGA.

Alta fiabilidad

La NSR-1200 admite RAID 5[1] y presenta un funcionamiento altamente fiable. El sistema puede continuar funcionando aunque uno de los discos duros presente un fallo de funcionamiento. De forma similar, debido a que el software y los ajustes del sistema se guardan en la memoria flash interna de la NSR, si el software del sistema presenta un fallo de funcionamiento, es posible restablecer el sistema de manera inmediata. Las unidades NSR también admiten suministros de alimentación ininterrumpidos (UPS), lo que las convierte en sistemas extremadamente fiables.

1) RAID 5 es un sistema que permite dividir y almacenar datos y paridad (códigos de corrección de errores) en más de una unidad de disco duro. Aunque este sistema permite el funcionamiento continuado, en caso de que se produzca un fallo de funcionamiento en uno de los discos duros, no se garantiza el restablecimiento de los datos perdidos. Además, debido a las altas cargas de procesamiento internas presentes durante la reconstrucción después de sustituir el disco duro averiado, es posible que la unidad no sea capaz de grabar imágenes a la velocidad de grabación configurada mientras se está llevando a cabo la reconstrucción.

Otras características

- Es posible mostrar las imágenes de hasta 64 cámaras (imágenes de 8×8) en una pantalla.
- Es posible realizar, entre otras, grabaciones manuales, programadas y de alarma con la NSR.
- La NSR está equipada con una función de detección de actividad[1] (Video Motion Detection (grabadora)).
- Realice búsquedas de las imágenes grabadas por nombre de cámara, fecha, alarma y demás opciones.
- Cree zonas de privacidad mediante las funciones de creación de máscaras dinámicas[2] de la NSR. La creación de máscaras dinámicas incluye el giro, la inclinación y el zoom.
- El procesamiento preciso de la alarma es posible mediante la realización de varios tipos de filtro[3] y la utilización de los resultados del procesamiento de la imagen enviados desde la cámara en forma de metadatos de información de objetos. Debido a que el filtro puede aplicarse a los metadatos que ya han sido grabados, también es posible buscar áreas de interés una vez finalizada la grabación.
- Asimismo, se admite la grabación y la reproducción de audio[4] desde cámaras compatibles

1) Algunas funciones están limitadas en función del número de cámaras que haya conectadas.
2) Algunas funciones están limitadas en función de qué modelos de cámara estén conectados.
3) Para llevar a cabo la detección de movimiento y la detección de objetos mediante metadatos, se necesita una cámara compatible con la detección de movimiento mediante metadatos. Hasta 32 modelos de cámara admiten la utilización de metadatos.
4) Es necesario disponer de amplificadores de sonido o altavoces opcionales.

En este manual únicamente se describe cómo instalar y configurar la NSR. Si desea obtener explicaciones detalladas acerca de cómo utilizar la unidad, consulte la Guía del usuario (PDF).

Requisitos del sistema

El hardware necesario para utilizar esta grabadora es el siguiente.

- Cámaras de red Sony
  Póngase en contacto con su distribuidor para obtener más información acerca de cámaras de red Sony compatibles.
- Monitor[1]
- Teclado USB[2]
- Ratón USB[3]
- Controlador remoto USB[4]
- Interruptor de red
- Cable 1000Base-T/100Base-TX/10Base-T
- Dispositivo de memoria USB[5]

1) Esta unidad admite dispositivos compatibles con HDMI y monitores de ordenador que admiten la entrada RGB.
   Es posible especificar las siguientes resoluciones.
   -Alta definición completa (1.920 × 1.080)
   -WUXGA (1.920 × 1.200)
   -XGA Full Wide (1.360 × 768)
   -UXGA (1.600 × 1.200)
   -SXGA (1.280 × 1.024)
   -XGA (1.024 × 768)

2) Utilice un teclado USB con cable. Sin embargo, es posible que no funcionen las teclas distintas de las estándar. Es posible asimismo que los teclados USB inalámbricos o infrarrojos no funcionen correctamente.

3) Utilice un ratón USB con cable. Sin embargo, es posible que los ratones con tres botones o con rueda no funcionen correctamente. Es posible asimismo que los ratones USB inalámbricos o infrarrojos no funcionen correctamente.

4) Es posible utilizar un mando a distancia para controlar las operaciones de rotación, inclinación y zoom de las cámaras.
   -La unidad es compatible con controladores USB de escritorio IP de productos CH. El resto de mandos a distancia no son compatibles.

5) Aspectos necesarios para realizar copias de seguridad de información del sistema como, por ejemplo, de registros.
   -Esta unidad admite dispositivos de almacenamiento masivo estándar USB 2.0. Sin embargo, en función del tipo de dispositivo de almacenamiento masivo USB 2.0, es posible que se produzcan errores al escribir datos en el dispositivo. Si se producen errores durante la escritura de datos, utilice un dispositivo de memoria USB de tipo diferente.

Nota

Cuando se utilizan pantallas que admiten la entrada HDMI y RGB, es recomendable utilizar la entrada RGB.

Contenido del paquete

Compruebe que los siguientes elementos se incluyen en el paquete:

NSR-1200/1100
- Servidor de grabación de vigilancia NSR-1200/1100 (1)
- Tecla del panel frontal (2)
- Manual de instalación (este documento) (1)
- Guía de inicio (1)
- Guía de funcionamiento de la ventana de supervisión (1)
- Normativa de seguridad (1)
- Folleto de WEEE (1)
- Folleto de garantía (1)
- Patas de goma (4)

NSR-1050H
- Servidor de grabación de vigilancia NSR-1050H (1)
- Tecla del panel frontal (2)
- Cable de entrada de cámara analógica (1)
- Manual de instalación (este documento) (1)
- Guía de inicio (1)
- Guía de funcionamiento de la ventana de supervisión (1)
- Normativa de seguridad (1)
- Folleto de WEEE (1)
- Folleto de garantía (1)
- Patas de goma (4)

Notas
- Es posible que este paquete contenga hardware o documentación adicional para estas opciones.
- Guarde las cajas y el material de embalaje para utilizarlos en el futuro.
- El kit de montaje del bastidor (NSR-RM1) es opcional (a la venta por separado).

Descarga de archivos almacenados en la NSR

Los documentos como los manuales de instrucciones y las herramientas se almacenan en la unidad NSR. Lleve a cabo lo siguiente para descargar archivos que se encuentren almacenados en la unidad NSR.

1 Utilice un cliente FTP como Internet Explorer para especificar la siguiente URL en el ordenador.
ftp://ftptool@<Dirección IP de NSR>

2 Introduzca el nombre de usuario y la contraseña siguientes.
Nombre de usuario:ftptool
Contraseña: ftptool

Nota

Para cambiar el nombre de usuario y la contraseña, cambie la configuración de [Enable user to Get Tools from Remote] en "FTP" del menú de configuración. Asimismo, si cambia el nombre de usuario, también podrá cambiar la siguiente dirección "ftp://" en la URL especificada a la nueva "nombre de usuario@<dirección IP de NSR>."

En el cliente FTP aparecen las siguientes carpetas y archivos.

3 Haga clic en las carpetas que contengan los archivos que desee.

Carpeta
Manual: contiene manuales de instrucciones (PDF).
SourceCode: Contiene código fuente GPL/LGPL y otros datos del mismo tipo.
Tool: contiene las aplicaciones RealShot Manager Advanced y Media File Player.
File
README.txt: contiene información acerca de cada carpeta.

Se visualizan los archivos contenidos en cada carpeta.

4 Haga clic en los archivos que desee para descargarlos.

Utilización del manual PDF

La NSR almacena manuales de instrucciones y otros documentos (versiones en japonés, inglés, francés, alemán, italiano, español, chino simplificado y ruso). Las copias de estos manuales están disponibles en formato pdf (Portable Document Format).

Preparativos

Es necesario disponer del siguiente software instalado en el ordenador para poder utilizar los manuales de instrucciones almacenados en la NSR.
• Adobe Reader versión 6.0 o superior

Nota

Si no dispone de Adobe Reader instalado, es posible descargarlo de la siguiente URL:
http://www.adobe.com/es/

Adobe y Adobe Reader son marcas comerciales de Adobe Systems Incorporated en Estados Unidos y otros países.

Visualización de manuales PDF

1 Consulte la sección "Descarga de archivos almacenados en la NSR", y descargue el manual correspondiente a su idioma de la carpeta "Manual" de la NSR.

2 Haga doble clic en el archivo descargado.

Nota

En función de la versión de Adobe Reader que utilice, es posible que el archivo no se visualice correctamente. Si el archivo no se visualiza correctamente, descargue la versión más reciente de Adobe Reader de la URL facilitada en la sección "Preparativos".

Características y funciones

Parte frontal (Con el una tapa abierto)

NSR-1200/1100/1050H
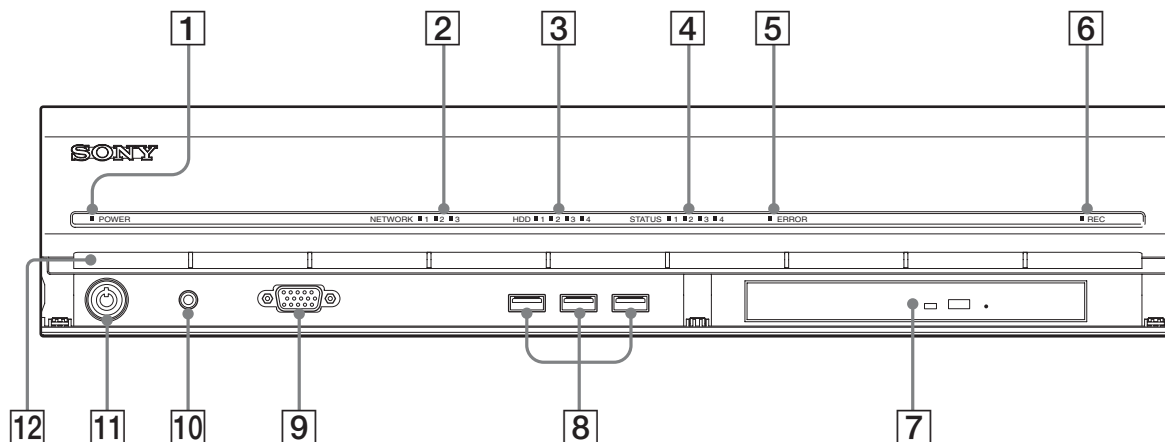
① **LED de alimentación**
Se ilumina en verde una vez iniciada la unidad.
Se ilumina en color ámbar cuando se encuentra en modo de espera.

② **LED de red (entre 1 y 3)**
Se ilumina en color verde cuando existe actividad en el conector LAN correspondiente situado en la parte posterior de la NSR.

③ **LED del disco duro**
Parpadea en color verde cuando se accede a los discos duros internos.
Se ilumina de color ámbar cuando se produce un error en un disco duro.

④ **LED de estado (entre 1 y 4)**
Se ilumina en secuencia (1, 2, 3, 4) al encenderse la NSR. Cuando se produce un error, se ilumina el LED de estado correspondiente junto con el LED de error, que se ilumina o parpadea para indicar el tipo de error.
Para obtener más información, consulte .

⑤ **LED de error**
Se ilumina o parpadea cuando se produce un error.

⑥ **LED REC**
Se ilumina durante la grabación de imágenes.

⑦ **Unidad de DVD/CD**
Utilice esta unidad para escribir datos de los discos duros de la NSR en discos DVD y CD.

⑧ **Conector USB**
Utilice este conector para conectar un teclado, ratón o memoria flash USB a la NSR.

⑨ **Conector 1 para monitor**

Utilice este conector para conectar un monitor.
El conector 1 para monitor (y el conector 1 para monitor de la parte posterior de la unidad) y el conector 1 para monitor HDMI de la parte posterior de la unidad no pueden utilizarse al mismo tiempo.

⑩ **Interruptor de alimentación**
Púlselo para encender la unidad. (No es posible apagar la unidad mediante este interruptor).

⑪ **Bloqueo**
Utilícelo junto con la tecla del panel frontal suministrada para bloquear el bisel frontal. Si el bisel frontal se encuentra bloqueado, no es posible extraerlo. Asimismo, no bloquee el bisel frontal si se ha extraído. Para distinguir si el bisel se encuentra bloqueado o desbloqueado, mire el bloqueo del modo indicado a continuación.

El bisel frontal está bloqueado

El bisel frontal está desbloqueado

⑫ **Orificios de ventilación**
Estas aberturas permiten que el aire fluya desde la parte frontal hasta la parte posterior de la NSR.
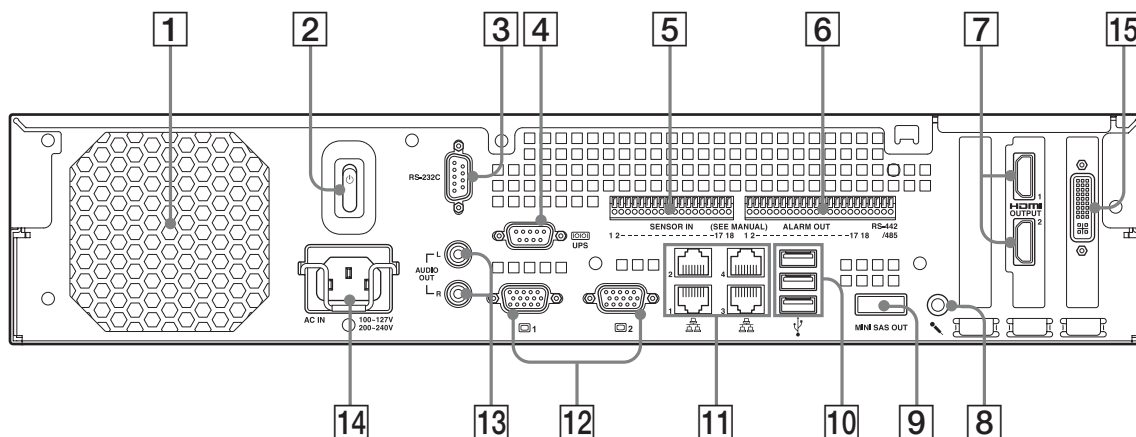No bloquee los orificios de ventilación, no permita que se acumule polvo en la malla interior de los orificios de ventilación ni obstruya el flujo de aire de ningún modo.
Obstruir el flujo de aire provoca que aumente la temperatura en el interior de la NSR y es posible que se produzcan incendios o daños.

Parte posterior

NSR-1200/1100
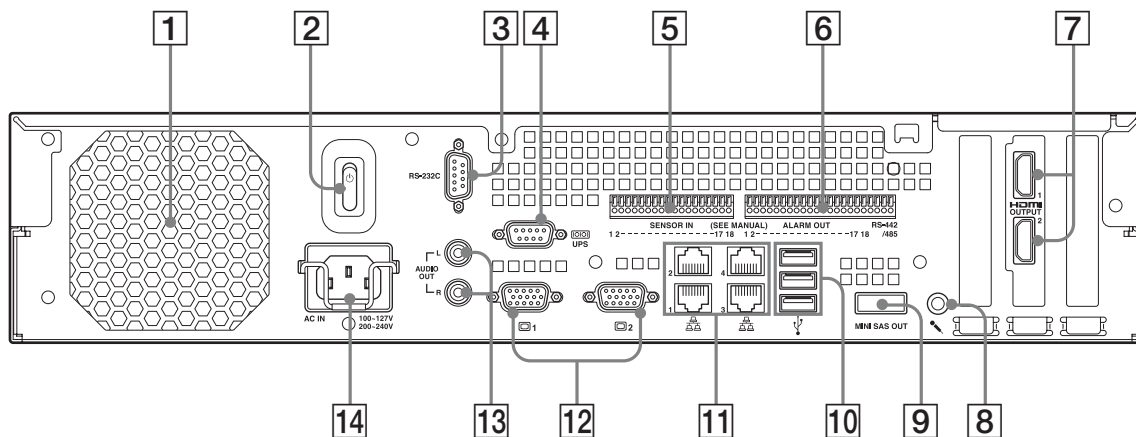
NSR-1050H

1 **Ventilador**
Tenga cuidado de no obstruir la rejilla del ventilador. Si la rejilla se encuentra obstruida, es posible que aumente la temperatura de la unidad, lo cual podría provocar daños o incendios.

2 **Interruptor de alimentación**
Coloque el interruptor en la posición ⏻ para encender la unidad.

3 **Conector RS-232C**
Utilice este conector para controlar cámaras analógicas. No es posible utilizar este conector al mismo tiempo que el conector RS-422/485 (los cuatro terminales situados más a la derecha en el conector de salida de la alarma 6).

4 **Conector UPS (RS-232C)**
Utilice este conector para conectar la línea de control del suministro de alimentación ininterrumpido (UPS).

5 **Conector de entrada del sensor**
Utilice este conector para conectar las líneas de entrada del sensor.
Para obtener más información acerca de la conexión y los diagramas de cableado de las entradas de sensor, consulte "Puerto de E/S" (página 273).

6 **Conector de salida de la alarma**
Utilice este conector para conectar las líneas de salida de la alarma.
Para obtener más información acerca de la conexión y del diagrama de cableado de la salida de alarma, consulte "Puerto de E/S" (página 273).

7 **Conectores del monitor HDMI (1 y 2)**
Utilice estos conectores para conectar monitores que admitan la entrada HDMI.
El conector 1 para monitor HDMI y el conector 1 para monitor 12 (y el conector 1 para monitor de la parte frontal de la unidad) no pueden utilizarse al mismo tiempo; asimismo, el conector 2 para monitor HDMI y el conector 2 para monitor 12 no pueden utilizarse al mismo tiempo.

⑧ **Conector de entrada de audio**

Utilice este conector para recibir sonido de dispositivos de audio periféricos, como micrófonos.
La unidad es compatible con micrófonos de alimentación por enchufe.

⑨ **Conector de salida mini-SAS**

Utilice este conector para conectar el cable mini-SAS utilizado para conectar la NSRE-S200.
La unidad NSRE-S200 es una unidad de almacenamiento de extensión opcional.

⑩ **Conector USB**

Utilice este conector para conectar un teclado, ratón o memoria flash USB a la NSR.

⑪ **Conectores LAN (entre 1 y 4)**

Utilice estos conectores para conectar cables de red 10 Base-T, 100 Base-TX o 1000 Base-T.
LAN1: cámaras de red
LAN2: clientes remotos
LAN3: Utilizado para extensiones futuras
LAN4: Utilizado para extensiones futuras

⑫ **Conectores del monitor (1 y 2)**

Utilice estos conectores para conectar un monitor.
El conector 1 para monitor (y el conector 1 para monitor de la parte frontal de la unidad) y el conector 1 para monitor HDMI ⑧ no pueden utilizarse al mismo tiempo; asimismo, el conector 2 para monitor y el conector 2 para monitor HDMI ⑧ no pueden utilizarse al mismo tiempo.

⑬ **Conectores de salida de audio (L y R)**

Utilice estos conectores para emitir sonido a un dispositivo de audio periférico.

⑭ **Conector de suministro de alimentación**

Utilice este conector para conectar el cable de alimentación.

⑮ **Conector de entrada de cable de cámara analógica**

Utilice este conector para conectar cámaras analógicas mediante el cable de entrada de cámara analógica.
La NSR-1050H está equipada de manera estándar con este conector, pero la NSR-1200/1100 necesita una extensión NSBK-A16 (opcional).

Datos de referencia para la instalación

Consumo de corriente y corriente de entrada

Modelo	Voltaje de entrada de ca	Carga completa	Corriente de entrada
NSR-1200	100 V	2,66 A	
	220 V	1,14 A	
NSR-1100	100 V	1,84 A	
	220 V	0,79 A	
NSR-1050H	100 V	1,75 A	13 A
	220 V	0,76 A	
NSRE-S200	100 V	0,79 A	
	220 V	0,34 A	

Capacidad de almacenamiento de datos grabados

A continuación se facilitan las capacidades de almacenamiento de datos grabados de la unidad NSR-1200/1100/1050H y del almacenamiento de extensión opcional.

Modelo	Capacidad de almacenamiento de datos grabados
NSR-1200	1.366 GB
NSR-1100	886 GB
NSR-1050H	443 GB
NSRE-S200	1.396 GB

* Las capacidades de datos son aproximaciones basadas en la siguiente ecuación para 1 GB:
$1.024 \times 1.024 \times 1.024 = 1.073.740.000$ bytes

Guía de duración de la grabación

Servidor	Almacenamiento de extensión	Número de cámaras	Códec (tamaño)	Número de días	Velocidad de bits	Velocidad de fotogramas
NSR-1050H	0 unidades	8	MPEG4 (VGA)	10	512 kbps	10,00 fps
NSR-1100	0 unidades	16	MPEG4 (VGA)	10	512 kbps	10,00 fps
NSR-1200	0 unidades	16	MPEG4 (VGA)	16	512 kbps	10,00 fps
NSR-1200	7 unidades	16	MPEG4 (VGA)	60	1.024 kbps	20,00 fps
NSR-1050H	0 unidades	4	JPEG (VGA)	4	Nivel 5	10,00 fps
NSR-1100	0 unidades	4	JPEG (VGA)	10	Nivel 5	8,00 fps
NSR-1200	0 unidades	16	JPEG (VGA)	30	Nivel 5	1,00 fps
NSR-1200	7 unidades	16	JPEG (VGA)	30	Nivel 5	9,00 fps

Número de cámaras

Número máximo de cámaras

Modelo	Número máximo de cámaras
NSR-1200	64
NSR-1100	32
NSR-1050H	20

Número máximo de cámaras analógicas (incluido en el número total de cámaras)

Modelo	Número máximo de cámaras analógicas
NSR-1200	16 (con la unidad opcional NSBK-A16)
NSR-1100	16 (con la unidad opcional NSBK-A16)
NSR-1050H	16

Número máximo de cámaras de megapíxeles (incluido en el número total de cámaras)

Modelo	Número máximo de cámaras
NSR-1200	8
NSR-1100	4
NSR-1050H	4

Ejemplo) NSR-1050H (número máximo de cámaras: 20)
Cámaras IP: 12
Cámaras IP (megapíxel): 4
Cámaras analógicas: 4

Pasos de preparación

Paso 1: Instalación (página 254)

↓

Paso 2: Conexiones (página 257)
  Conecte cada dispositivo a la unidad.

↓

Paso 3: Ajustes (página 262)

Encienda la unidad.

↓

Configure los ajustes iniciales con el Asistente de configuración.

↓

Inicie sesión.

↓

Lleve a cabo la configuración básica.

Registro automático de las cámaras.

Seleccione las cámaras que desee registrar.

Configure la grabación por alarma.

Configure la grabación programada.

↓

Paso 4: Verificación del funcionamiento (página 269)

↓

Si es necesario efectuar la configuración necesaria
Consulte la Guía del usuario (PDF).
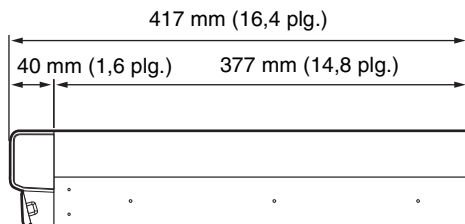
Paso 1: Instalación

Antes de iniciar la configuración, compruebe que la ubicación donde se desea realizar la instalación dispone de espacio y robustez suficientes para albergar la unidad. La NSR-1200 pesa aproximadamente 13,5 kg (29,8 lb.), la NSR-1100 aproximadamente 12 kg (26,7 lb.), y la NSR-1050H aproximadamente 11,5 kg (25,4 lb.). Las dimensiones de la unidad son las siguientes.
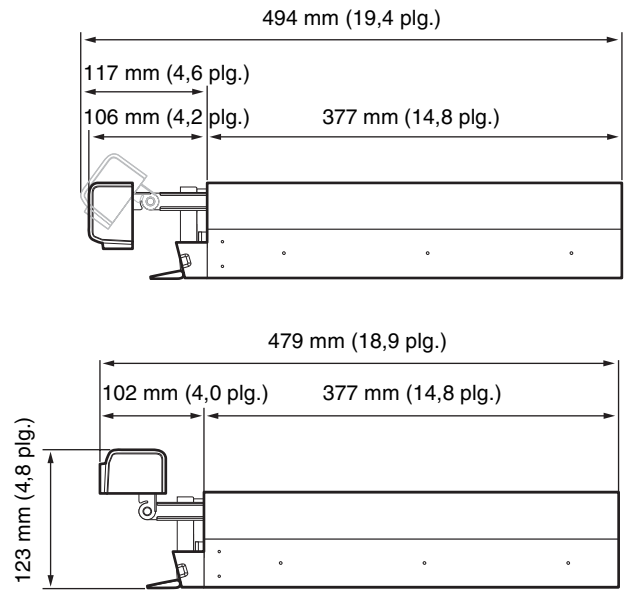
87 mm (3,4 plg.)

430 mm (16,9 plg.)

417 mm (16,4 plg.)

Parte superior

Parte superior

417 mm (16,4 plg.)

430 mm (16,9 plg.)
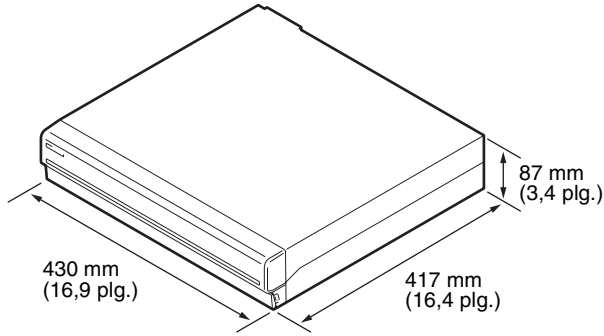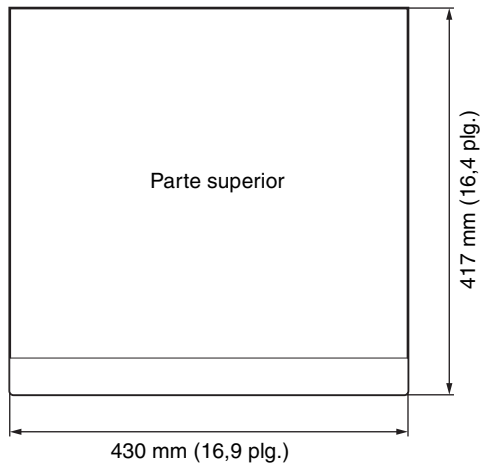
Con el bisel de la parte frontal cerrado

417 mm (16,4 plg.)

40 mm (1,6 plg.)   377 mm (14,8 plg.)

Con el bisel de la parte frontal abierto

494 mm (19,4 plg.)

117 mm (4,6 plg.)

106 mm (4,2 plg.)   377 mm (14,8 plg.)

479 mm (18,9 plg.)

102 mm (4,0 plg.)   377 mm (14,8 plg.)

123 mm (4,8 plg.)

Es posible instalar la unidad en un bastidor mediante el kit de montaje del bastidor opcional.

Instalación sin estantería

Coloque las patas de goma suministradas con la grabadora.
Coloque la grabadora en posición vertical de modo que se pueda ver la parte inferior de la misma. Pegue las superficies adhesivas de las patas de goma en la parte inferior de la grabadora tal como se indica en la ilustración siguiente.

Retire la lámina

Pata de goma

Parte inferior de la unidad
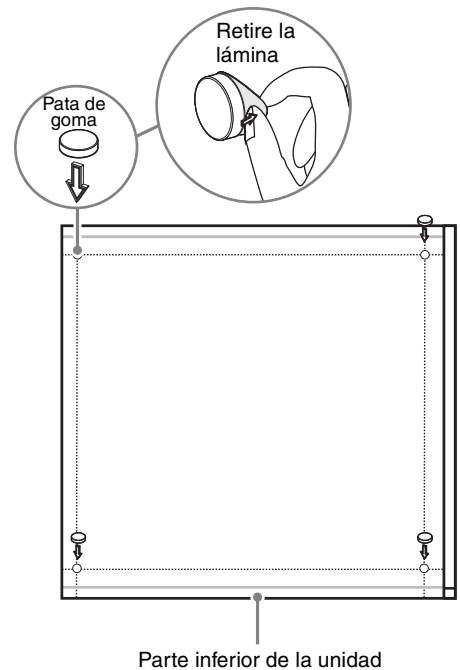
Instalación en bastidor

Instale la NSR en una estantería con el kit de montaje de estanterías opcional (se vende por separado).

Advertencia

- No utilice un kit de montaje en bastidor que no sea el kit de montaje opcional (vendido por separado) para la NSR, ya que es peligroso y puede provocar un incendio, una descarga o daños personales.
- Si monta la NSR en un bastidor, asegúrese de no colocar objetos pesados sobre la misma.
- Antes de montar la NSR en un bastidor, se recomienda que marque la posición del bastidor en la que pretende colocarla con un rotulador de punta de fieltro. El montaje de la NSR en el bastidor en una posición que no sea la horizontal podría ocasionar fallos de funcionamiento.
- Para solicitar un kit de montaje de estanterías, póngase en contacto con su distribuidor.

Extracción de los rieles interiores

Extraiga los rieles interiores del soporte.

1 Extraiga por completo el riel interior de uno de los soportes de rieles.
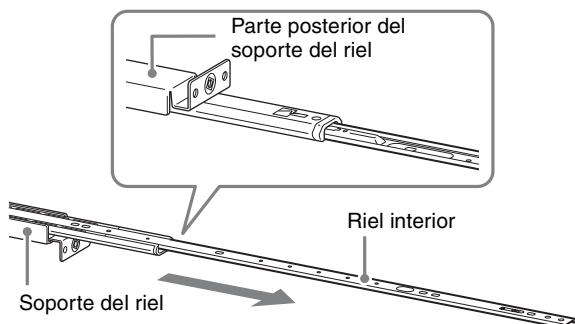
2 Dé la vuelta al soporte del riel. Extraiga el riel interior por completo a la vez que tira hacia fuera de la lengüeta verde para abrir el cierre.
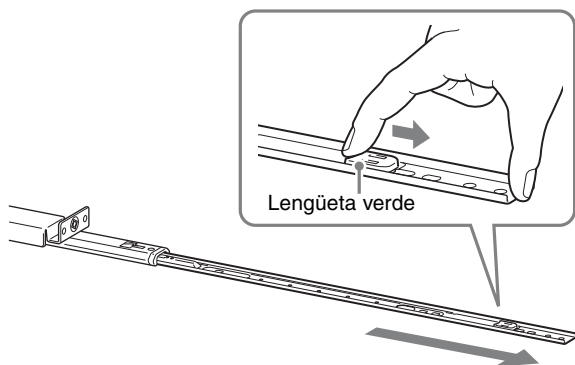
3 Repita el procedimiento con el otro soporte de riel para extraer el correspondiente riel interior.

Nota

El riel interior se instalará en la NSR, mientras que soporte de riel se instalará en la estantería.

Preparación de la NSR

Utilice los pasadores y tornillos suministrados para instalar el riel interior en la NSR.

1 Utilice los tornillos de cabeza plana suministrados para colocar las asas de montaje en la parte frontal del panel lateral.
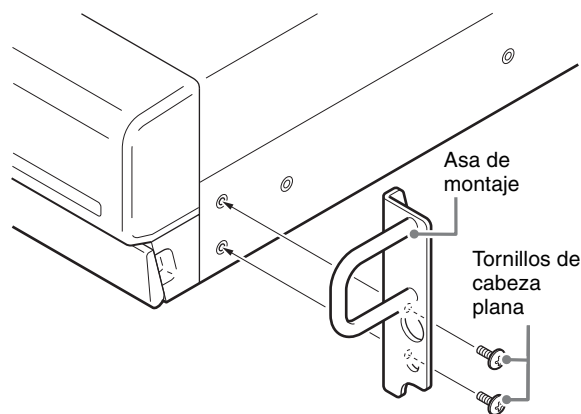
2 Utilice los tornillos de cabeza redonda restantes para instalar los rieles en la NSR, tal como se indica en la ilustración.
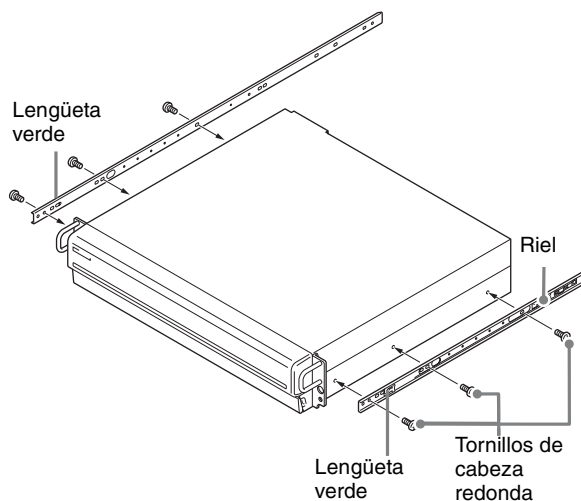
Precaución

Si utiliza otros tornillos que no sean los suministrados, puede dañar la unidad. Asegúrese de utilizar los tornillos suministrados para instalar los rieles.

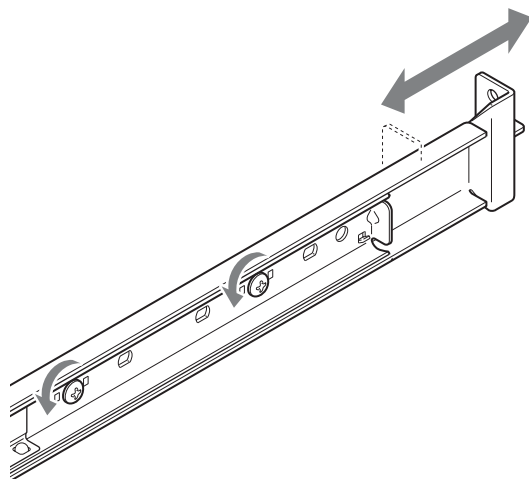## Preparación de la estantería

Instale los rieles en la estantería.

1 Decida donde desea instalar los rieles en la estantería.
Se recomienda marcar este punto con un rotulador.

Precaución

Si se instalan los rieles a alturas diferentes, se pueden producir fallos de funcionamiento en la NSR.

2 Instale los rieles en la estantería.
(1) Ajuste la longitud de los rieles para que coincida con la de la estantería.

(2) Utilice los tornillos de sujeción y las arandelas suministrados para fijar ambos extremos de los rieles a la estantería.

Tornillos de sujeción

Arandelas
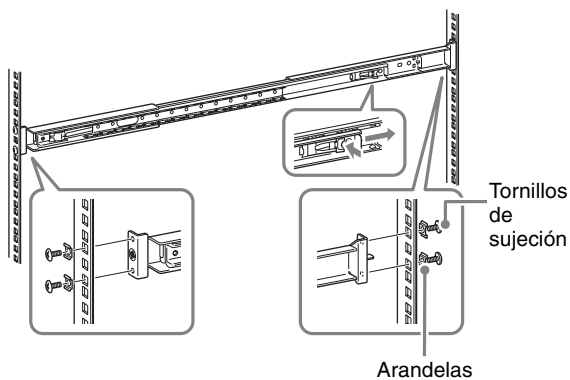
Montaje de la NSR en la estantería

Inserte la NSR en la estantería y, a continuación, fíjela firmemente.

Precaución

Con el fin de evitar daños personales, se necesitan al menos dos personas para manipular la unidad.

**1** Tire de los rieles deslizantes de las estructuras de rieles.
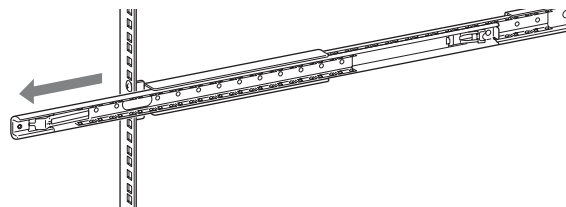
2 Levante la NSR, coloque los rieles interiores en las ranuras (blancas) de los rieles deslizantes y, a continuación, deslice el soporte hasta que se detenga.

Riel interior
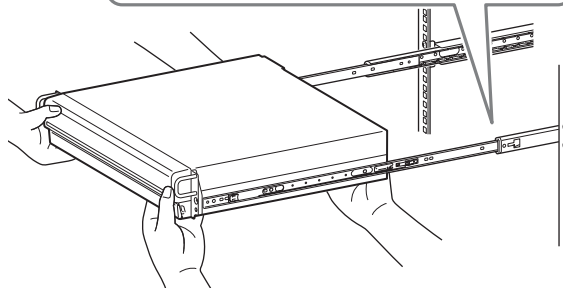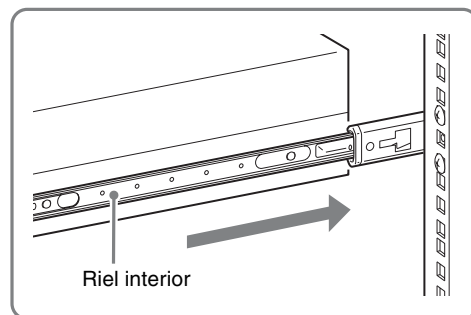
3 Deslice la NSR hasta que se detenga a la vez que tira de la lengüeta verde hacia dentro para liberar el cierre.

Lengüeta verde
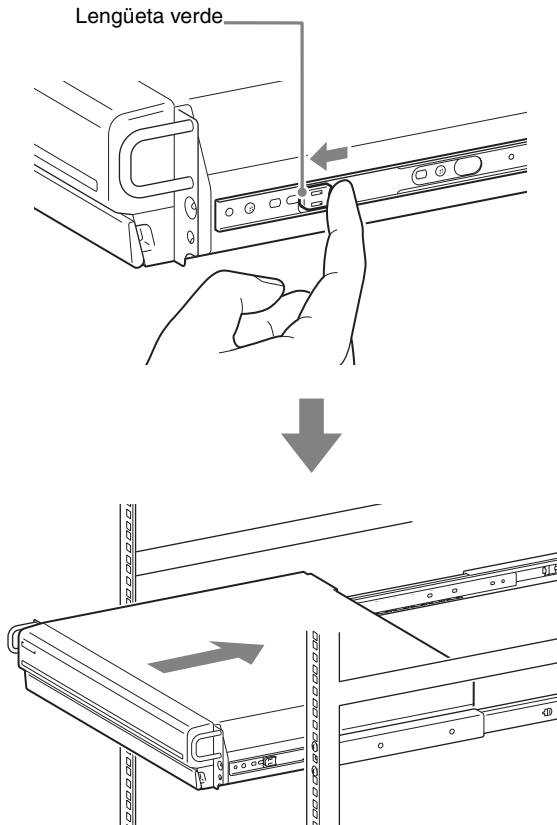
4 Utilice los tornillos de cabeza redonda suministrados para fijar la NSR a la estantería.

Tornillo de cabeza redonda
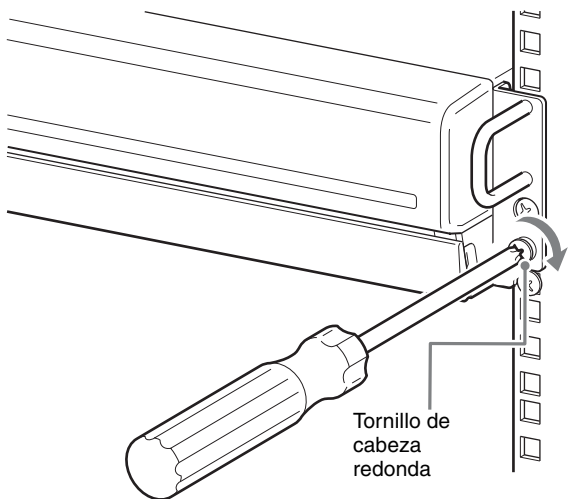
Instalación de accesorios opcionales

Para obtener más información acerca de la instalación de NSRE-S200, consulte el Manual de instalación que se ata a NSRE-S200. Para obtener más información acerca de las extensiones NSBK-A16 opcionales, póngase en contacto con el distribuidor Sony.

Paso 2: Conexiones

Conecte cada dispositivo a la unidad.

Conexión de un monitor

Si desea conectar un monitor, hágalo al conector 1 para monitor RGB o al conector 1 para monitor HDMI.
Si desea conectar un segundo monitor, hágalo al conector 2 para monitor RGB o al conector 2 para monitor HDMI.
Para obtener más información, consulte "Ejemplos de conexión de monitores" (página 270).

Ejemplo) Si se establece la conexión con conectores de monitor posteriores

Monitor 1

Conector 1 para monitor

Monitor 1   Monitor 2

Conector 1 para   Conector 2 para
monitor   monitor
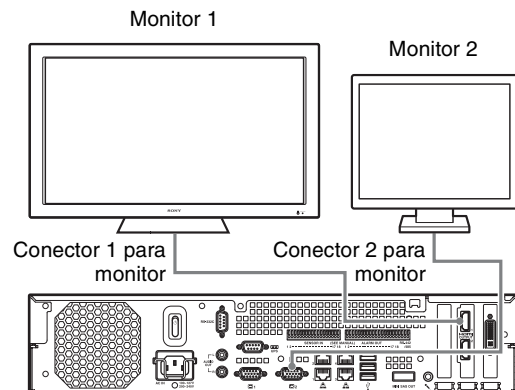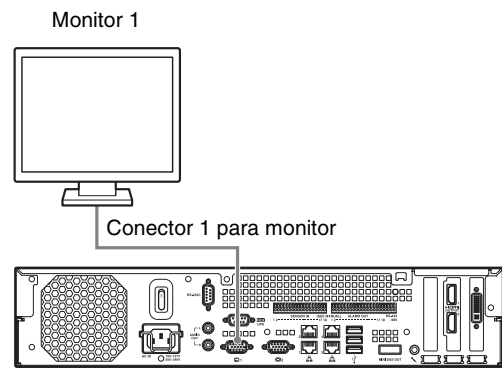
Recomendaciones de uso de los conectores durante el funcionamiento de la unidad

Monitor		Conectores a utilizar			
		Conector 1 para monitor HDMI	Conector 2 para monitor HDMI	Conector 1 para monitor RGB analógico	Conector 2 para monitor RGB analógico
Un monitor	Monitor HDMI	○	–	–	–
	Monitor RGB analógico	–	–	○	–
Dos monitores	Monitor HDMI × 2	○	○	–	–
	Monitor RGB analógico × 2	–	–	○	○
	Monitor HDMI y monitor RGB analógico	○	–	–	○
		–	○	○	–

Notas

- Existen tres conectores de monitor con la marca "1" (2 RGB analógicos; 1 HDMI) y dos conectores de monitor con la marca "2" (1 RGB analógico; 1 HDMI), pero únicamente se puede utilizar uno de cada (1 y 2) por vez.
- No encienda la unidad mientras se encuentren conectados monitores al conector 1 para monitor RGB analógico en la parte frontal y posterior de la unidad.
- Si se utiliza la unidad únicamente con un monitor RGB analógico, no conecte el monitor al conector 1 para monitor RGB de la parte frontal de la unidad con la unidad encendida.
- Al conectar dos monitores RGB analógicos, no utilice los conectores para monitor HDMI.
- Cuando se utilicen monitores HDMI, asegúrese de conectar el monitor HDMI y encenderlo antes de encender la unidad.
- Respete las siguientes restricciones a la hora de utilizar el conector 1 para monitor RGB de la parte frontal de la unidad.
  - No conecte monitores al conector 1 para monitor HDMI.
  - No establezca una conexión al conector 1 para monitor RGB analógico de la parte frontal y de la parte posterior de la unidad al mismo tiempo con la unidad encendida. Los monitores no se reconocerán si se utilizan ambos conectores.
- Cuando los monitores se conectan mediante un conmutador, es posible que las imágenes no siempre se muestren. Se recomienda conectar los monitores directamente a la unidad.

Conexión del teclado, el ratón y la unidad de control remoto

Conecte los dispositivos a los conectores USB en las partes frontal y posterior de la unidad

Ejemplo) Conexión a los conectores USB de la parte posterior


Ratón

Teclado

Control remoto
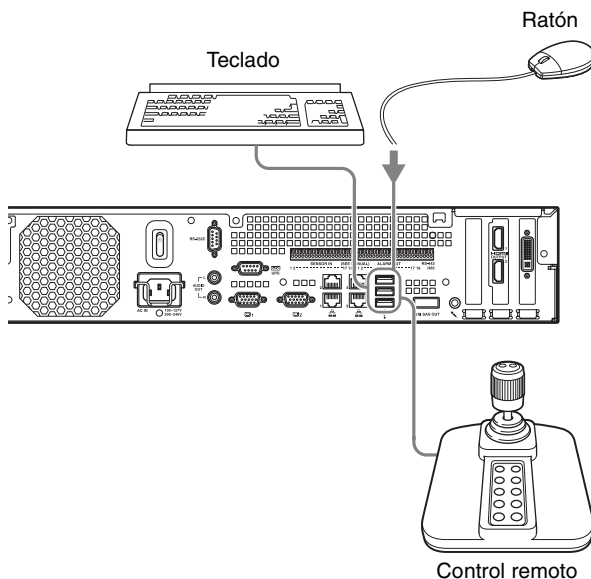
Notas

- La unidad es compatible controladores USB de escritorio IP de productos CH. El resto de mandos a distancia no son compatibles.
- Cuando se utilizan dispositivos USB, asegúrese de leer la sección "Precauciones en la utilización de dispositivos USB" (on page 245) en la sección "Precauciones de uso" de antemano.

Conexión del cable de alimentación

Conecte el cable de alimentación al conector de suministro de alimentación.
Coloque la sujeción de seguridad para evitar que el cable de alimentación se desconecte.
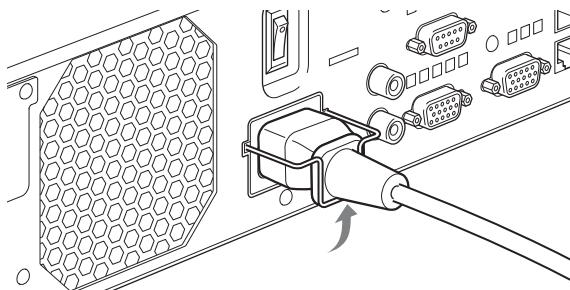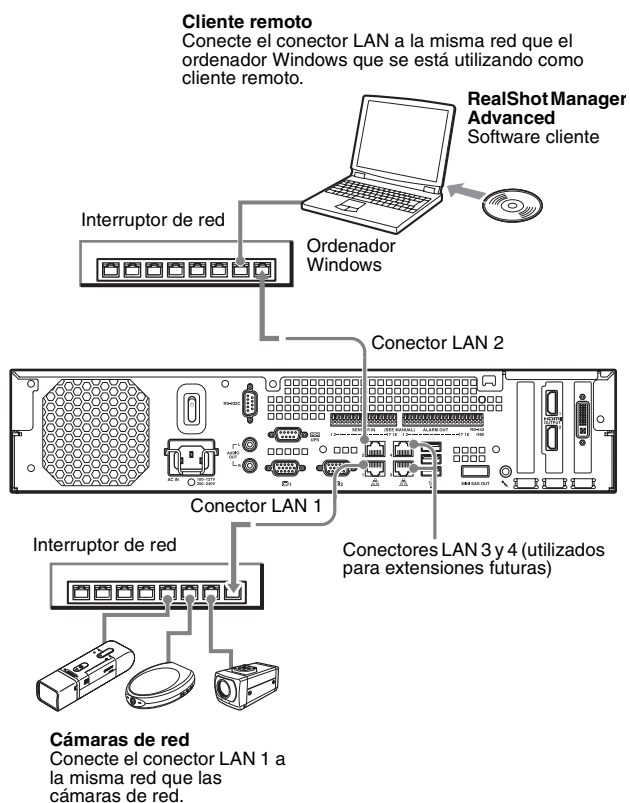

Precaución

- Lea las "Información importante de instalación" (página 244) antes de instalar la unidad. Si se utiliza la unidad en combinación con varias unidades NSR o

una unidad NSRE-S200 opcional, asegúrese de que el suministro de alimentación sea suficiente.

- Para obtener más información acerca del consumo de corriente y de la corriente de entrada de la unidad NSR-1200/1100/1050H y la NSRE-S200, consulte la sección "Datos de referencia para la instalación" (página 252).

Conexión a una red

Establezca la conexión a la red del modo siguiente.

Cliente remoto
Conecte el conector LAN a la misma red que el ordenador Windows que se está utilizando como cliente remoto.

RealShot Manager Advanced Software cliente

Interruptor de red

Ordenador Windows

Conector LAN 2

Conector LAN 1

Interruptor de red

Conectores LAN 3 y 4 (utilizados para extensiones futuras)

Cámaras de red
Conecte el conector LAN 1 a la misma red que las cámaras de red.

Conexiones a clientes remotos

Si se necesita un cliente remoto, es posible utilizar el software cliente RealShot Manager Advanced suministrado con esta unidad.

- Utilice la versión de RealShot Manager Advanced que se suministra con la unidad. Para obtener más información acerca de cómo descargar el instalador de RealShot Manager Advanced, consulte "Descarga de archivos almacenados en la NSR" (página 248). También es posible descargar el instalador correspondiente a la versión más reciente de RealShot Manager Advanced de la siguiente URL.
http://www.sony.co.jp/net/Products/RSMAd/license_form.html
Para obtener más información acerca de la instalación y conexión a la NSR, consulte la Guía de instalación de RealShot Manager Advanced (PDF).
- El software cliente RealShot Manager Advanced funciona en ordenadores Windows. Para obtener más información acerca de las especificaciones del sistema

recomendadas, consulte las notas de la versión incluidas en el archivo de instalación del software cliente RealShot Manager Advanced.
- Si utiliza RealShot Manager Advanced como mando a distancia de la NSR, seleccione [Cliente] durante la instalación de RealShot Manager Advanced.
- Para establecer la conexión con la red local del usuario, utilice el conector LAN 2.
- Para obtener más información acerca de los ajustes de la unidad NSR cuando se utiliza el software cliente RealShot Manager Advanced, consulte la sección "Configuraciones para la utilización del software cliente RealShot Manager Advanced" (página 268).

Conectores LAN 3 y 4 (utilizados para extensiones futuras)

Debido a que los conectores LAN 3 y 4 están vinculados a canales para obtener redundancia de red, únicamente es posible asignar una dirección IP a ambos conectores. Asegúrese de conectar los conectores LAN 3 y 4 al mismo interruptor de red.
Si se conectan los conectores LAN 3 y 4 al interruptor de red, se habilitará la comunicación de datos únicamente para uno de los dos conectores.
La red activa se determina al encender la unidad, y no es posible especificar qué red se desea utilizar. Si se produce un fallo en la red activa y se deshabilita la comunicación de datos, esta se reanudará mediante otra red.
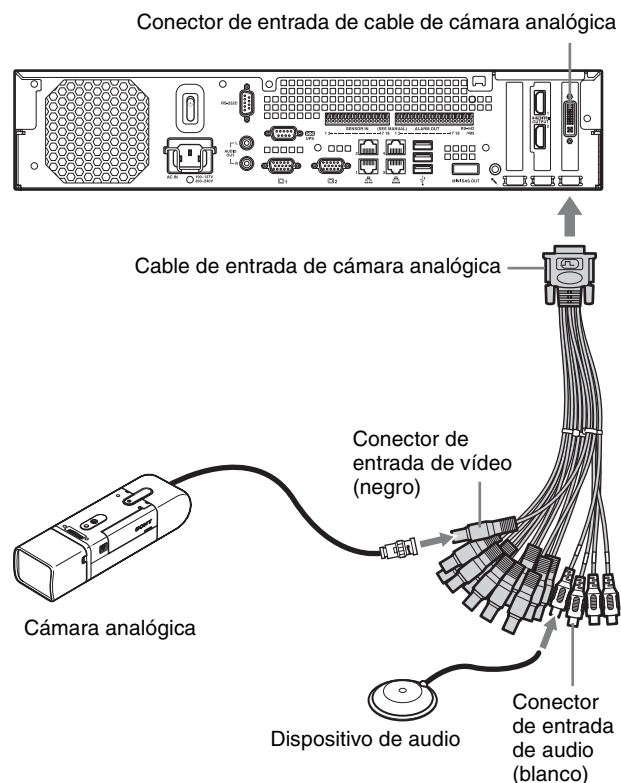
Notas

- Las direcciones IP predeterminadas de la unidad son las siguientes.
  - Conector LAN 1: 192.168.0.1
  - Conector LAN 2: 192.168.1.1
  - Conector LAN 3: 192.168.2.1
  - Conector LAN 4: 192.168.2.1
- Si desea cambiar las direcciones IP predeterminadas, consulte la Guía del usuario (PDF).
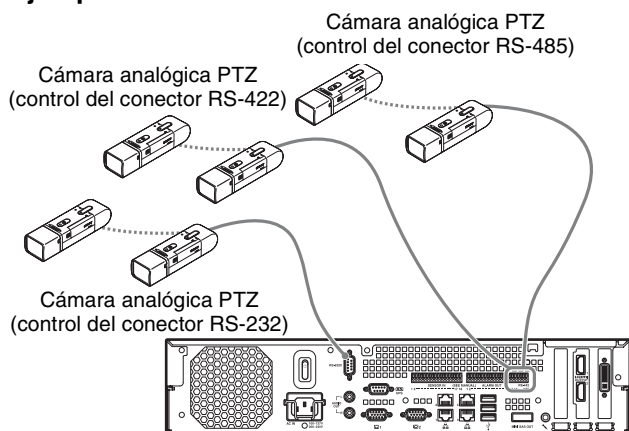
Conexión de una cámara analógica

Conecte la cámara analógica mediante el cable de entrada analógico de la cámara suministrado.
Para controlar las operaciones de rotación, inclinación y zoom, conecte un cable de control de la cámara al conector RS-232C o al conector RS-422/485 (los cuatro terminales situados más a la derecha en el conector de salida de la alarma). (Únicamente puede utilizarse uno de estos conectores (RS-232C, RS-422, RS-485) a la vez).
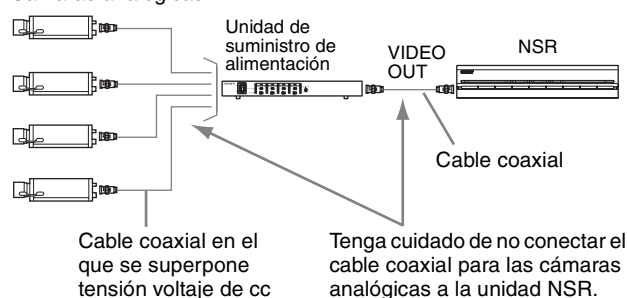
Conector de entrada de cable de cámara analógica

Cable de entrada de cámara analógica

Conector de entrada de vídeo (negro)

Cámara analógica

Dispositivo de audio

Conector de entrada de audio (blanco)

Ejemplos de conexión

Cámara analógica PTZ (control del conector RS-485)

Cámara analógica PTZ (control del conector RS-422)

Cámara analógica PTZ (control del conector RS-232)

Si se utilizan cámaras y unidades de suministro de alimentación que superpongan voltajes de cc en el cable coaxial de vídeo, preste mucha atención al cableado coaxial. Si el cable de la cámara en el que se superpone

voltaje de cc se encuentra conectado a la NSR, es posible que se produzcan fallos de funcionamiento.

Cámaras analógicas

Unidad de suministro de alimentación

VIDEO OUT

NSR

Cable coaxial

Cable coaxial en el que se superpone tensión voltaje de cc

Tenga cuidado de no conectar el cable coaxial para las cámaras analógicas a la unidad NSR.

Notas

- La NSR-1050H está equipada de manera estándar con un conector de entrada para cable de cámara analógica, pero la NSR-1200/1100 necesita una extensión NSBK-A16 (opcional).
- Para efectuar operaciones de rotación, inclinación y zoom, es necesario configurar un número de control único para cada cámara analógica mediante los conmutadores DIP o los menús. Para obtener más información acerca de la configuración de números de control, consulte el manual de instrucciones de la cámara analógica.
- Para obtener más información acerca de la asignación de terminales del conector RS-422/485, consulte "Asignación de clavijas del puerto de Entrada/Salida" (página 273).
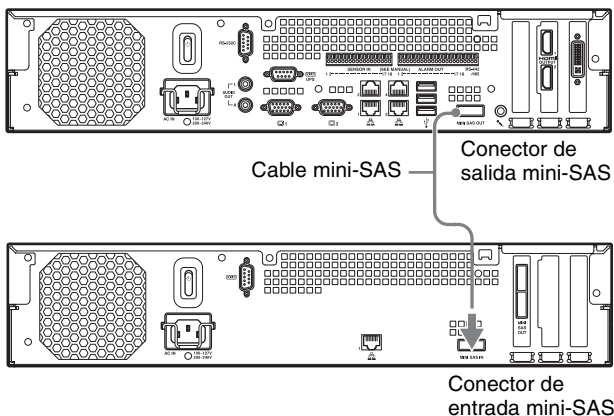
Conexión de la NSRE-S200

Utilice el cable mini-SAS suministrado con la unidad NSRE-S200 opcional para conectar la NSR-1200/1100/1050H a la NSRE-S200 del modo siguiente.
Es posible conectar hasta siete unidades NSRE-S200 a la NSR-1200/1100/1050H.
Para obtener más información acerca de las configuraciones de la conexión, consulte "Ejemplo de conexión de la unidad NSRE-S200" (página 271).
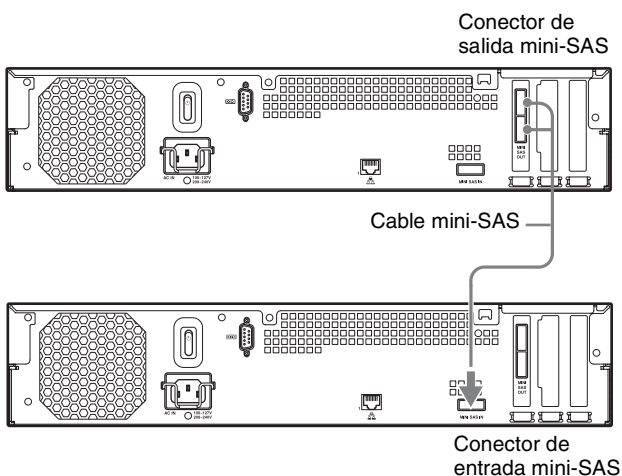
Nota

Asegúrese de conectar la NSR-1200/1100/1050H y la NSRE-S200 antes de activar la alimentación.

Conexión de la NSR-1200/1100/1050H a la NSRE-S200

Cable mini-SAS — Conector de salida mini-SAS

Conector de entrada mini-SAS

Conexión de dos unidades NSRE-S200

Conector de salida mini-SAS

Cable mini-SAS

Conector de entrada mini-SAS

Nota

Los conectores de salida mini-SAS superior e inferior de la NSRE-S200 tienen la misma función.
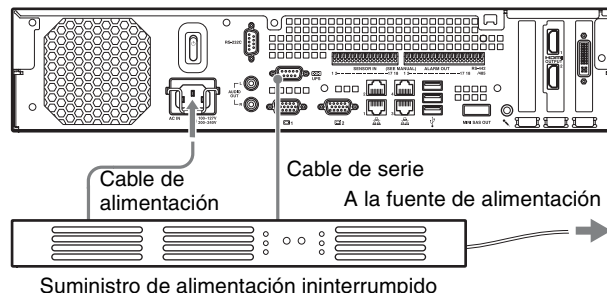
Conexión de otros dispositivos

Conexión de entradas de sensor y salidas de alarma

Conecte los cables al conector de entrada del sensor y al conector de salida de la alarma.
Para obtener más información, consulte "Puerto de E/S" (página 273).

Conexión de un suministro de alimentación ininterrumpido

1 Conecte la fuente de alimentación ininterrumpida a la toma de alimentación.

2 Conecte la NSR a la fuente de alimentación ininterrumpida mediante el cable de alimentación suministrado.

3 Conecte la NSR al suministro de alimentación ininterrumpido mediante el cable de serie exclusivo al conector en serie situado en la parte posterior de la NSR.

Cable de alimentación

Cable de serie
A la fuente de alimentación

Suministro de alimentación ininterrumpido

Conexión de un dispositivo de salida de sonido

Conecte el dispositivo de salida de sonido a los conectores de salida de sonido (L y R).

Cable de audio (L y R)
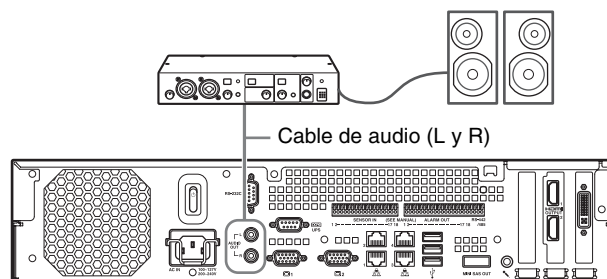
Paso 3: Ajustes

En esta sección se facilita información acerca de cómo encender la unidad y explicaciones generales acerca de cómo registrar cámaras y otros dispositivos.
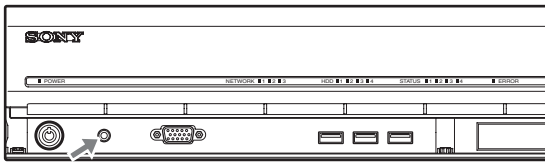
Encendido de la unidad

Si se pulsa el interruptor de alimentación de la parte frontal o posterior de la unidad, esta se encenderá. Si se conecta una unidad NSRE-S200 opcional, espere a que se haya encendido antes de encender esta unidad.

Precaución

Tenga en cuenta la corriente de entrada a la hora de configurar las conexiones de alimentación de los sistemas que incluyen varias unidades NSR o una unidad NSRE-S200. Para obtener más información acerca de la corriente de entrada, consulte "Datos de referencia para la instalación" (página 252).

Interruptor de alimentación de la parte frontal

Interruptor de alimentación de la parte posterior
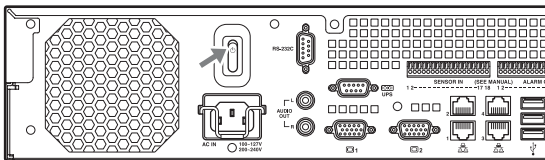
El LED de alimentación del panel frontal se ilumina en verde y se enciende la unidad.

Al encender la unidad por primera vez, el Asistente de configuración se iniciará automáticamente.
Continúe hacia la siguiente sección "Configuración de los ajustes iniciales con el Asistente de configuración".

Notas

- Es posible que se oiga el ruido del ventilador durante 2 segundos tras encender la unidad. No se trata de un fallo de funcionamiento.
- Si se ha apagado la unidad mediante operaciones del sistema, pulse el botón de alimentación del panel frontal o el interruptor de alimentación del panel posterior para encender la unidad.

- Si se ha apagado la unidad de manera forzada anteriormente, es posible que esta tarde más tiempo en encenderse.

Para apagar la unidad

Después de iniciar sesión en la NSR, haga clic en en la parte superior de la pantalla principal y seleccione [Shutdown] en el menú que aparece.

Nota

Normalmente, la unidad se apagará una vez transcurridos unos minutos. Si la unidad no se apaga una vez transcurridos unos minutos, coloque el interruptor de alimentación que se encuentra situado en el panel posterior de la unidad en la posición ⏻ durante al menos 5 segundos para llevar a cabo un apagado forzado.

## Configuración de los ajustes iniciales con el Asistente de configuración

En esta sección se explica el flujo general de funcionamiento del Asistente de configuración. Para obtener más información acerca de los ajustes, consulte "Cambio de los ajustes del sistema" en la Guía del usuario (PDF).

Al encender la unidad por primera vez, el Asistente de configuración se iniciará automáticamente. Es posible configurar los mismos ajustes posteriormente mediante el acceso a la pantalla de inicio de sesión, el menú de administración y, a continuación, el menú de configuración. Para obtener más información, consulte "Para acceder al menú de configuración desde la pantalla de inicio de sesión" (página 266).

Precaución

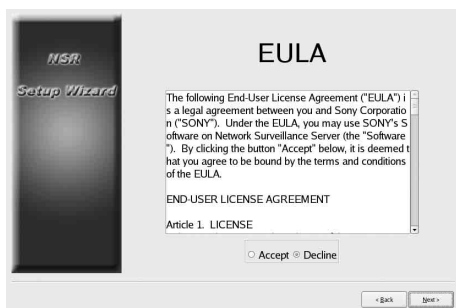En este manual, algunos de los elementos que aparecen en inglés en pantalla, están en español.

Al encender la unidad, se inicia el Asistente de configuración y aparece la siguiente pantalla.

↓
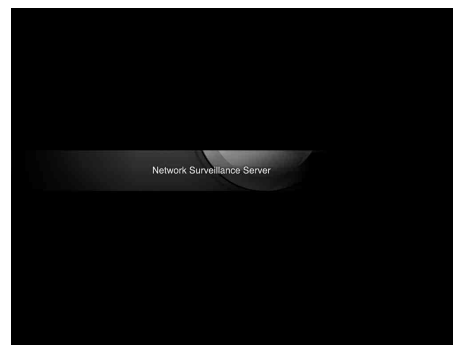
Haga clic en [Next].

↓

Lea el acuerdo de licencia detenidamente, haga clic en [Accept] y, a continuación, haga clic en [Next].

↓

Seleccione el idioma de pantalla y haga clic en [Next].

↓

Seleccione el idioma del teclado y haga clic en [Siguiente].

↓

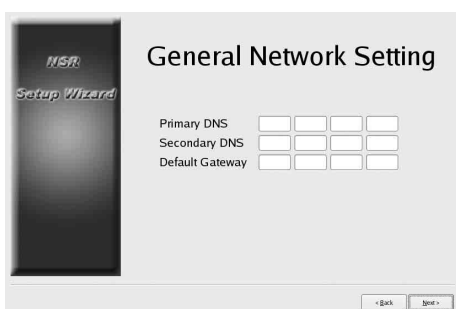Seleccione la zona horaria y haga clic en [Siguiente].

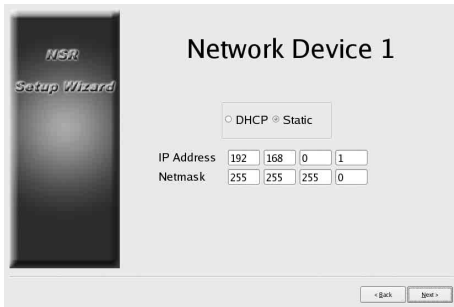
↓

Ajuste la fecha y la hora, y haga clic en [Siguiente].
• Si se marca la casilla de verificación [Enable NTP Server], la unidad funcionará como el servidor NTP para sincronizar la fecha y la hora.
• Si se marca la casilla de verificación [Synchronize with NTP Server], es posible sincronizar la fecha y la hora con un servidor NTP diferente.
• Si no es posible sincronizar la fecha y la hora con el servidor Windows como servidor NTP, es posible marcar la casilla de verificación [Synchronize with Windows Server] para forzar que se efectúe la sincronización con el servidor Windows NTP.
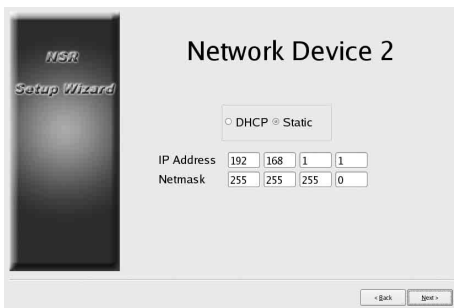

↓
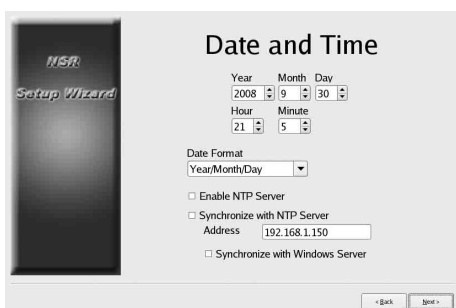
Configure la dirección IP para cada servidor y haga clic en [Siguiente].
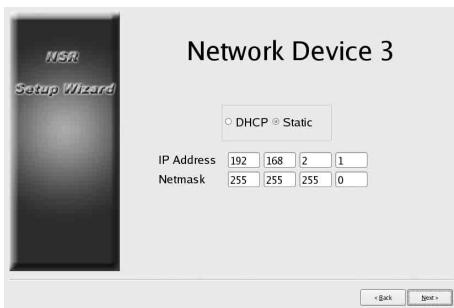

↓

Configure la dirección IP para el conector LAN 1 y haga clic en [Siguiente].

Network Device 1

○ DHCP ● Static

IP Address 192 168 0 1
Netmask 255 255 255 0

‹Back   Next›

↓

Configure la dirección IP para el conector LAN 2 y haga clic en [Siguiente].

Network Device 2

○ DHCP ● Static

IP Address 192 168 1 1
Netmask 255 255 255 0

‹Back   Next›

↓

Configure la dirección IP para el conector LAN 3 y haga clic en [Siguiente].

Network Device 3

○ DHCP ● Static

IP Address 192 168 2 1
Netmask 255 255 255 0

‹Back   Next›

↓

Configure los ajustes del monitor 1 y haga clic en [Siguiente].
• Si se selecciona [Auto], el tipo de monitor conectado y su resolución se detectan y configuran automáticamente.
  Para obtener más información acerca de las resoluciones admitidas, consulte "Requisitos del sistema" (página 247).
• Si desea conectar dos monitores a la unidad, marque la casilla de verificación [Dual Head].

Monitor 1

□ Dual Head
☑ Auto
□ Generic Monitor
  Generic LCD Display; LCD Panel 1024x768; 0; 31.5-4
  Generic LCD Display; LCD Panel 1280x1024; 0; 31.5
  Generic LCD Display; LCD Panel 1600x1200; 0; 31.5
□ Others
  Acer; Acer 54es; API9715; 31.0-54.0; 50.0-110.0
  Acer; Acer 55; API0037; 30.0-56.9; 50.0-80.0
  Acer; Acer 55e; API9701; 30.0-54.0; 50.0-110.0
  Acer; Acer 56L; API HC38; 30.0-64.0; 50.0-110.0
  Acer; Acer 57i; API9718; 30.0-70.0; 50.0-110.0

Resolution 1024x768 ▼

‹Back   Next›

↓

Si desea conectar un segundo monitor, configure los ajustes correspondientes al monitor 2.
Después de configurar los ajustes correspondientes al segundo monitor, reinicie la unidad con el segundo monitor conectado

Monitor 2

☑ Auto
□ Generic Monitor
  Generic LCD Display; LCD Panel 1024x768; 0; 31.5-4
  Generic LCD Display; LCD Panel 1280x1024; 0; 31.5
  Generic LCD Display; LCD Panel 1600x1200; 0; 31.5
□ Others
  Acer; Acer 54es; API9715; 31.0-54.0; 50.0-110.0
  Acer; Acer 55; API0037; 30.0-56.9; 50.0-80.0
  Acer; Acer 55e; API9701; 30.0-54.0; 50.0-110.0
  Acer; Acer 56L; API HC38; 30.0-64.0; 50.0-110.0
  Acer; Acer 57i; API9718; 30.0-70.0; 50.0-110.0

Resolution 1024x768 ▼

‹Back   Next›

↓

Seleccione el conector de salida de audio que desea utilizar y haga clic en [Siguiente].

Audio

● AUDIO OUT
○ HDMI

‹Back   Next›

↓
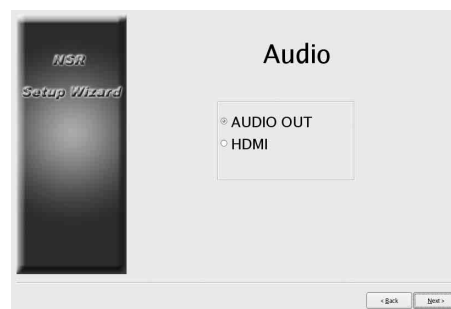
Configure las particiones para la unidad de disco duro interno y haga clic en [Siguiente].
Especifique el número de particiones y seleccione el porcentaje de la capacidad total que desea asignar a cada partición.


↓
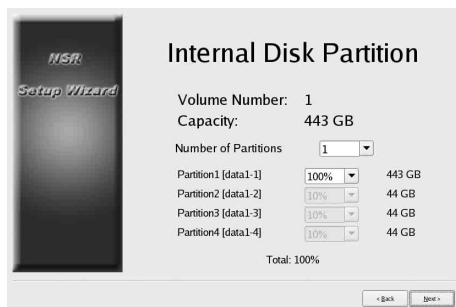
Ajuste el nombre del servidor y haga clic en [Siguiente].

↓
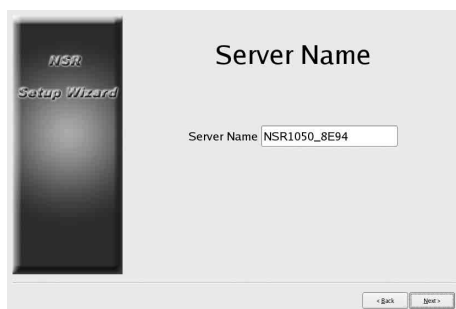
Configure los ajustes de conexión de la cámara analógica y haga clic en [Siguiente].
Seleccione el estándar de conexión en serie al que se conectará la cámara que desea controlar y configure los ajustes como, por ejemplo, la tasa de baudios y los bits de paridad.
(Esta pantalla aparece únicamente si se ha conectado NSR-1050H o NSBK-A16 (opcional))
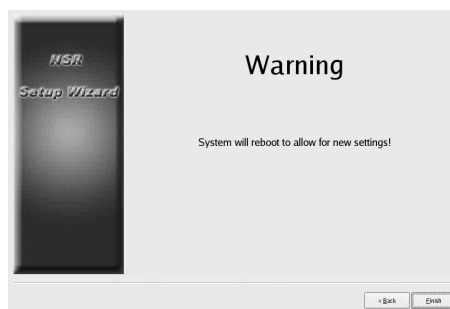

↓
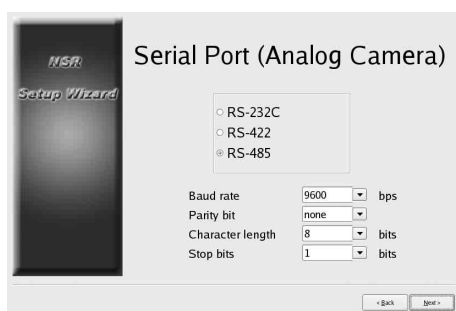
Seleccione el formato de vídeo de las cámaras analógicas que desee conectar y haga clic en [Siguiente].
(Esta pantalla aparece únicamente si se ha conectado NSR-1050H o NSBK-A16 (opcional))

↓
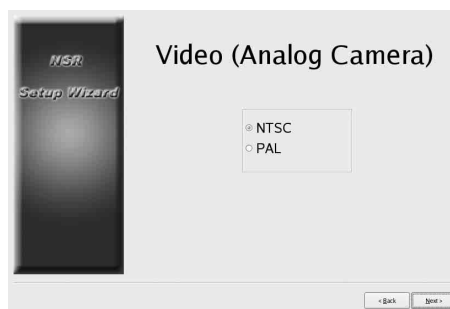
Compruebe los ajustes y haga clic en [Siguiente].

↓

Haga clic en [Finalizar] cuando aparezca el mensaje de confirmación de reinicio.
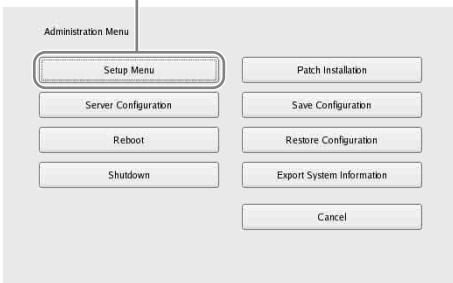

↓

Se reinicia la unidad.

↓

Aparece la pantalla de inicio de sesión.
Continúe en la siguiente sección, "Inicio de sesión".

Para acceder al menú de configuración desde la pantalla de inicio de sesión

① Haga clic en [Administration Menu].

↓

② Haga clic en [Setup Menu].

Inicio de sesión

Introduzca un nombre de usuario y contraseña y haga clic en [Logon].
Nombre de usuario predeterminado:admin
Contraseña predeterminada:admin

Si se realiza correctamente el inicio de sesión, aparecerá el cuadro de diálogo de registro automático de la cámara.
Continúe en la siguiente sección, "Realización de la configuración básica".

Realización de la configuración básica

En esta sección se describe cómo registrar y configurar la grabación por alarma en dispositivos detectados automáticamente. Para obtener más información acerca de cómo registrar todos los dispositivos detectados automáticamente a la vez, consulte la Guía de inicio (documento independiente).

Para registrar una cámara

Seleccione [Abra la ventana de registro de varias cámaras] y haga clic en [Aceptar].

↓

Los dispositivos que se encuentran en el mismo segmento de red se detectan automáticamente.

↓

Marque las casillas de verificación correspondientes a las cámaras que desee registrar y haga clic en [Registro]. Para obtener más información acerca de los ajustes, consulte "Registro de dispositivos" en la Guía del usuario (PDF).

↓
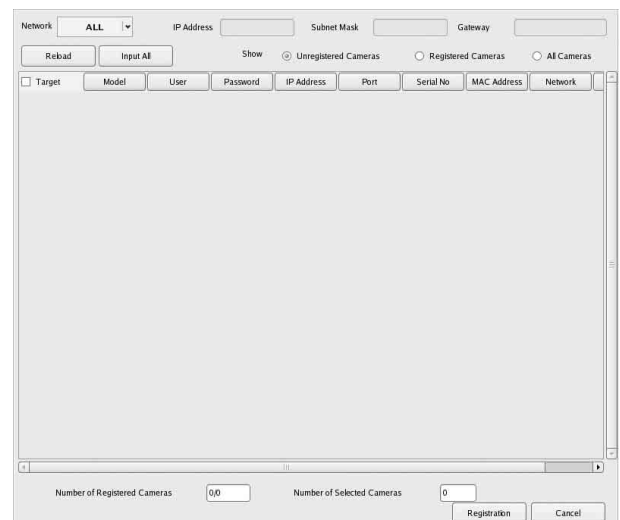
Las cámaras se registran.

↓
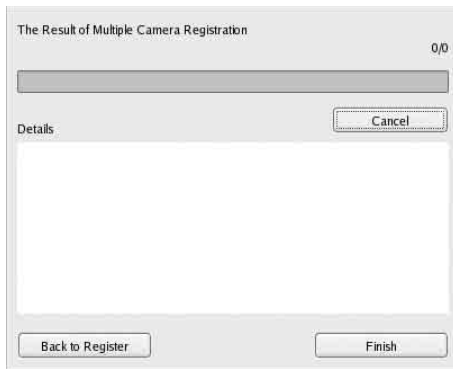
Para configurar la grabación por alarma
Seleccione [Automatic Alarm Record] y haga clic en [Siguiente].

↓

Aparece el mensaje de confirmación.
Haga clic en [Siguiente].

↓

Compruebe los ajustes y haga clic en [Finalizar].

↓

La grabación por alarma se inicia.

Cuando haya finalizado la configuración, aparecerá la pantalla principal.

Después de llevar a cabo la configuración básica, los valores correspondientes a cada ajuste serán los siguientes.

Ajuste	Grabación programada	Grabación por alarma
Tamaño de la imagen	Tamaño de imagen máximo admitido por la cámara.	
Códec	Códec que admite el tamaño de imagen máximo. (Si es admitido por los formatos JPEG y MPEG4, se seleccionará MPEG4).	
Velocidad de fotogramas	JPEG: Depende de la duración del almacenamiento de los datos grabados. MPEG4: Depende de la velocidad de bits.	JPEG: 10 fps MPEG4: 10 fps
Calidad	50% Nivel 3 (cámaras con ajustes de 5 niveles) Nivel 5 (cámaras con ajustes de 10 niveles)	80% Nivel 5 (cámaras con ajustes de 5 niveles) Nivel 8 (cámaras con ajustes de 10 niveles)
Velocidad de bits	Depende de la duración del almacenamiento de los datos grabados.	MPEG4: 1,5 Mbps
Activador de la grabación	–	VMD (cámara) VMD (grabadora) JPEG: modo estándar MPEG4: modo de alto rendimiento
Ubicación del almacenamiento de datos	No modificado respecto a la configuración existente.[1]	No modificado respecto a la configuración existente.[1]
Audio	Desactivada	Desactivada
Sobrescritura de datos	No modificado respecto a la configuración existente.	No modificado respecto a la configuración existente.

Ajuste	Grabación programada	Grabación por alarma
Limpiar	Elimina los datos que superan la duración del almacenamiento.	No modificado respecto a la configuración existente.

1) Si el usuario no ha configurado ajustes de ubicación de almacenamiento para la cámara, la capacidad de la primera partición del disco duro interno de la unidad se utilizará para calcular otros ajustes. Si el usuario ha configurado ajustes de ubicación de almacenamiento, las capacidades de cada una de las ubicaciones se utilizarán para calcular otros ajustes.

Precaución

- Si los ajustes de la grabación programada y la grabación por alarma ya existen al ejecutar "automatic record" ("grabación automática"), las configuraciones automáticas sustituirán los ajustes anteriores.
- Si se modifican deliberadamente las ubicaciones de almacenamiento de la cámara, es posible llevar a cabo la configuración básica de nuevo para recalcular el resto de ajustes. Los ajustes no se recalcularán automáticamente.

Ajustes que requieren configuración individual

Es necesario llevar a cabo una mayor configuración en los siguientes casos.

Ajustes de ubicación de almacenamiento

En los ajustes de la configuración básica, los datos se almacenan en la primera partición del disco duro interno de la unidad.
Para obtener más información acerca de la grabación de datos en una unidad NSRE-S200 opcional o en otras particiones, consulte la Guía del usuario (PDF).

Para construir sistemas que incluyen varias unidades NSR o servidores RealShot Manager Advanced

Para configurar varios servidores, es necesario efectuar una configuración individual. Para obtener más información, consulte la Guía del usuario (PDF).

Ajustes de rotación, inclinación y zoom para cámaras analógicas

Configure los ajustes de rotación, inclinación y zoom para cámaras analógicas del modo siguiente desde la ficha [Control] de la configuración del dispositivo.
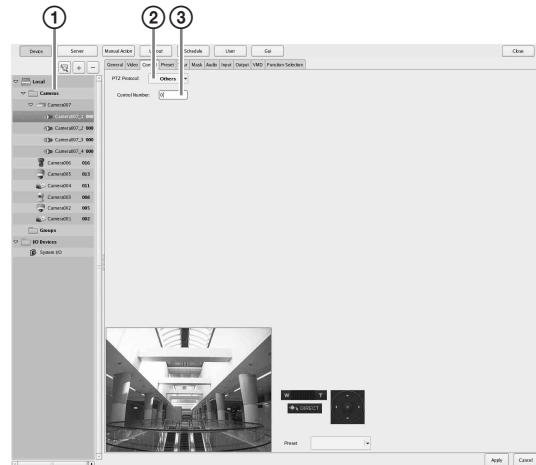
① Seleccione la cámara analógica.
② Seleccione un protocolo basado en los ajustes de la cámara analógica.
③ Introduzca el número de control configurado en la cámara analógica seleccionada.

Nota

Para configurar estos ajustes, es necesario configurar el modo de transmisión en los ajustes de "Serial Port" del Asistente de configuración de antemano.

Ajustes de sonido para cámaras

En los ajustes de la configuración básica, el sonido está desactivado. Para obtener más información acerca de cómo activar el sonido, consulte la Guía del usuario (PDF).

Configuraciones para la utilización del software cliente RealShot Manager Advanced

Configure los siguientes ajustes en la unidad NSR que desee utilizar como servidor maestro. Para obtener más información acerca de los ajustes, consulte la Guía del usuario (PDF).

1 Configure los siguientes ajustes en la pantalla de configuración del servidor del menú de administración.
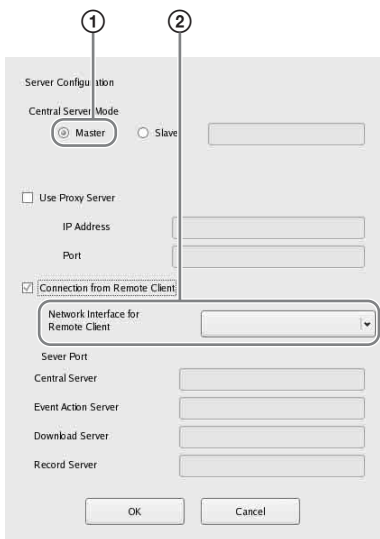
① Seleccione [Maestro] en [Modo de servidor central].
② Seleccione la interfaz de red para efectuar la conexión en [Network Interface for Remote Client Connection] en [Connect from Remote Client].

2 Cree un usuario en el servidor maestro.
Haga clic en ⊞ (añadir) en la pantalla de configuración del usuario y cree un usuario.
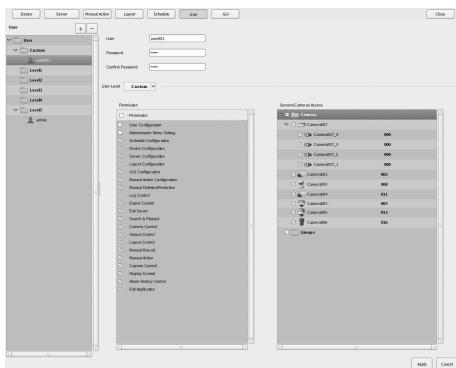
Paso 4: Verificación del funcionamiento

Una vez finalizadas las configuraciones básicas, asegúrese de que las imágenes de la cámara se visualizan en la pantalla principal y compruebe el resto de operaciones.

① Cambie el diseño y la visualización de las imágenes provenientes de las cámaras registradas.
Arrastre y suelte una cámara del panel de cámaras en un marco de monitor para visualizar imágenes provenientes de dicha cámara.
② Haga clic en un marco de monitor para activarlo (marco azul claro) y controle la rotación, inclinación y zoom desde la ficha [Control] del panel de control de la cámara.
③ Confirme que se activen alarmas cuando pasen objetos frente a la cámara.
Una vez configurada una grabación por alarma mediante la configuración básica, un marco rojo rodea al marco del monitor, y se visualiza un registro de cada alarma en el historial de alarmas situado en la parte inferior de la pantalla.
④ Consulte la Guía de funcionamiento de la ventana de supervisión (documento independiente) para obtener más información acerca del funcionamiento de cada función.
⑤ Haga clic en [PLAYBACK] para reproducir grabaciones.
Cuando haga clic en [PLAYBACK] , se reproducirán imágenes de una hora configurada previamente (reproducción rápida).
Si introduce una fecha y una hora y hace clic en [GO], y las imágenes grabadas se reproducirán.
⑥ Haga clic en el indicador [ERROR] situado en la parte inferior derecha de la pantalla para confirmar si se ha producido algún error.
Al mostrarse el registro del sistema al hacer clic en el indicador [ERROR], es posible confirmar si se han producido problemas mediante la visualización del registro.

Para obtener más información acerca de las operaciones de la pantalla principal, consulte la Guía de funcionamiento de la ventana de supervisión (documento independiente) o la Guía del usuario (PDF).

Si se conecta un dispositivo USB a la unidad, es posible que se ilumine el indicador [ERROR] en la parte inferior derecha de la pantalla principal. Esto indica que es posible que la unidad no admita el dispositivo USB. Para obtener más información, consulte "Precauciones de uso" (on page 244) o "No funciona un dispositivo externo que se encuentra conectado a un conector USB." (on page 275) en la sección "Solución de problemas".

Si se utiliza RealShot Manager Advanced como cliente remoto

Lleve a cabo lo siguiente para confirmar las operaciones.

1 Inicie sesión en RealShot Manager Advanced.
  • Especifique el servidor durante el inicio de sesión. Especifique el puerto "8082" en la dirección IP del servidor.
  • Introduzca el nombre de usuario y la contraseña configurados en la pantalla de configuración del servidor (page 269) en las opciones [User Name] y [Contraseña].

2 En la pantalla principal de RealShot Manager Advanced, asigne imágenes a marcos de monitor provenientes de las cámaras conectadas a la unidad. Existen dos métodos disponibles para asignar cámaras.
  • Arrastre y suelte una cámara que se encuentre conectada a la unidad desde el panel de cámaras hasta un marco de monitor.
  • Haga clic en un marco de monitor para seleccionarlo y, a continuación, haga doble clic en una cámara en el panel de cámaras.

3 Compruebe que las imágenes de la cámara seleccionada en el paso 2 se muestran en el marco del monitor.
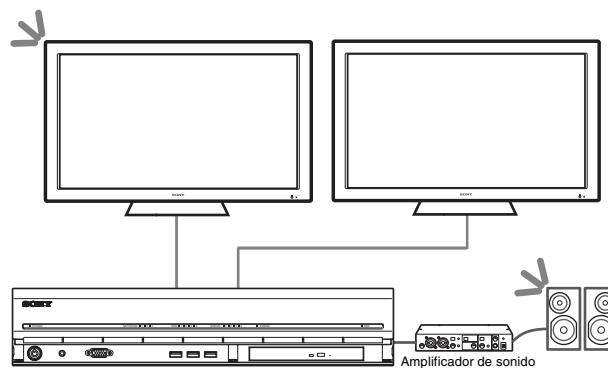
Ejemplos de conexión

Ejemplos de conexión de monitores

Esta unidad admite varias combinaciones de conexiones de monitores. Consulte los siguientes ejemplos de conexión.

Es posible seleccionar si desea emitir sonido RCA o HDMI en la pantalla de sonido del Asistente de configuración o en el menú de configuración.
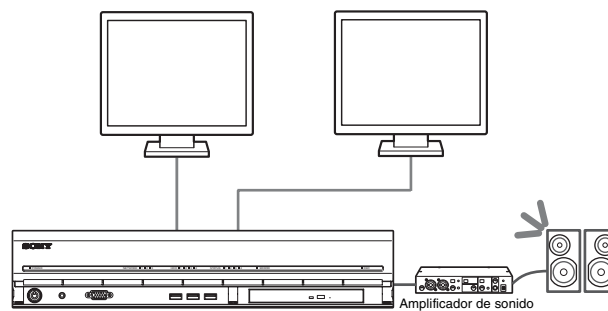
Ejemplo 1) Conexión de dos monitores HDMI

↘ : Ubicaciones de las salidas del sonido.

Asegúrese de conectar los monitores HDMI y de encenderlos antes de encender la unidad.

Ejemplo 2) Conexión de dos monitores RGB analógicos

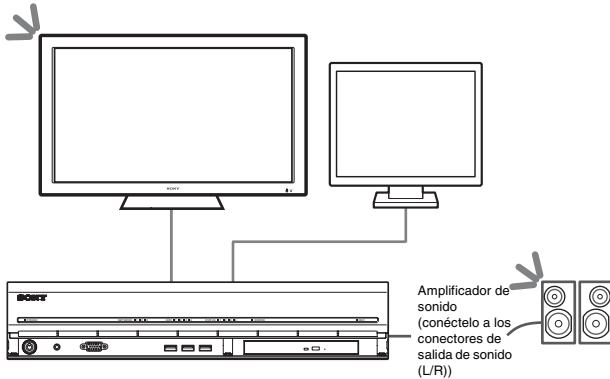↘ : Ubicaciones de las salidas del sonido.

- No conecte los monitores a los conectores 1 y 2 para monitor HDMI.
- No conecte un monitor al conector 1 para monitor de la parte frontal de la unidad mientras esta se encuentra encendida.

Ejemplo 3) Conexión de un monitor HDMI y de un monitor RGB analógico (monitor HDMI utilizado para operaciones)


Amplificador de sonido (conéctelo a los conectores de salida de sonido (L/R))

: ubicaciones de las salidas del sonido.

- No conecte un monitor al conector 2 para monitor HDMI.
- Cuando se utilicen monitores HDMI, asegúrese de conectar el monitor HDMI y encenderlo antes de encender la unidad.

Ejemplo 4) Conexión de un monitor HDMI y de un monitor RGB analógico (monitor RGB analógico utilizado para operaciones)
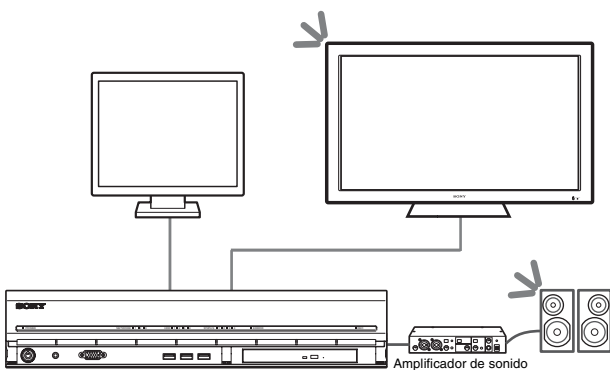
Amplificador de sonido

: ubicaciones de las salidas del sonido.

- No conecte un monitor al conector 1 para monitor HDMI.

- No conecte un monitor al conector 1 para monitor de la parte frontal de la unidad mientras esta se encuentra encendida.

Ejemplo de conexión de la unidad NSRE-S200

Es posible conectar hasta siete unidades NSRE-S200 opcionales a la NSR-1200/1100/1050H en las siguientes configuraciones de árbol.

El cable mini-SAS utilizado para establecer la conexión se suministra con la NSRE-S200.

Conecte las extensiones de la NSRE-S200 en el orden siguiente.

NSR-1200/1100/1050H

NSRE-S200

NSRE-S200

NSRE-S200
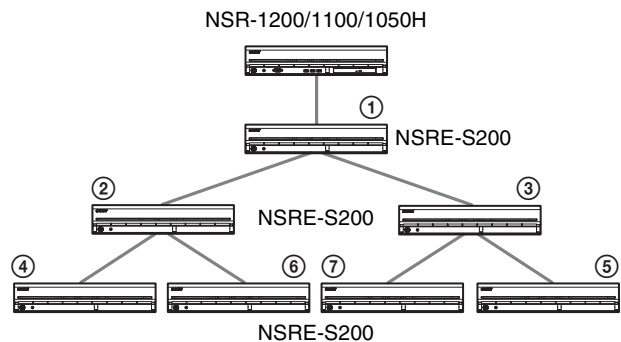
Varios

INDICADORES DE ESTADO

Si se produce un error en la unidad, el LED de error situado en el panel frontal de la unidad parpadeará o se iluminará en función del estado del error, y el LED de estado se iluminará.

STATUS ■1 ■2 ■3 ■4   ■ ERROR

El indicador STATUS indica las siguientes situaciones de error.

Códigos de error que aparecen durante la fase de arranque
(El indicador de ERROR parpadea cuando se produce un error durante la fase de arranque).

Código de error	INDICADOR DE ESTADO	Indicador de ERROR	Causa posible
1	1 2 3 [4]	Parpadeo	Fallo de voltaje de la fuente de alimentación
2	1 2 [3] 4	Parpadeo	Fallo del ventilador de la CPU
3	1 2 [3] [4]	Parpadeo	Módulo de memoria defectuoso
4	1 [2] 3 4	Parpadeo	Fallo del batería CMOS
5	1 [2] 3 [4]	Parpadeo	Fallo del controlador o memoria de acceso aleatorio de vídeo (RAM)
6	1 [2] [3] 4	Parpadeo	Fallo del controlador del disco duro
7	1 [2] [3] [4]	Parpadeo	No se ha encontrado un dispositivo de inicio
8	[1] 2 3 4	Parpadeo	No se ha encontrado un sistema operativo de inicio
9	[1] 2 3 [4]	Parpadeo	Uno o varios fallos del disco duro
A	[1] 2 [3] [4]	Parpadeo	Fallo de volumen del SO del RAID
B	[1] [2] 3 4	Parpadeo	Fallo al iniciar el servidor X11
C	[1] [2] 3 [4]	Parpadeo	Fallo al iniciar la aplicación
D	[1] [2] [3] 4	Parpadeo	Reservado para utilizar más adelante
E	[1] [2] [3] [4]	Parpadeo	Reservado para utilizar más adelante
F	[1] [2] [3] [4]	Parpadeo	Fallo de volumen de datos del RAID

Códigos de error que aparecen durante la fase de funcionamiento
(El indicador de ERROR se ilumina cuando se produce un error durante el funcionamiento).

Código de error	INDICADOR DE ESTADO	Indicador de ERROR	Causa posible
1	1 2 3 [4]	Encendido	Temperatura crítica
2	1 2 [3] 4	Encendido	Fallo del ventilador de la CPU
3	1 2 [3] [4]	Encendido	Fallo del ventilador de la fuente de alimentación
4	1 [2] 3 4	Encendido	Fallo de voltaje de la fuente de alimentación
5	1 [2] 3 [4]	Encendido	Fallo del ventilador 1 del disco duro
6	1 [2] [3] 4	Encendido	Fallo del ventilador 2 del disco duro
7	1 [2] [3] [4]	Encendido	El disco duro está dañado.
8	[1] 2 3 4	Encendido	Reservado para utilizar más adelante
9	[1] 2 3 [4]	Encendido	Reservado para utilizar más adelante
A	[1] 2 [3] [4]	Encendido	Reservado para utilizar más adelante
B	[1] [2] 3 4	Encendido	Error en el sistema operativo
C	[1] [2] 3 [4]	Encendido	Fallo de funcionamiento de la aplicación
D	[1] [2] [3] 4	Encendido	El indicador [ERROR] de la pantalla principal está encendido
E	[1] [2] [3] [4]	Encendido	Fallo de volumen de datos del RAID
F	[1] [2] [3] [4]	Encendido	El volumen de datos RAID está siendo reestructurado

■ indica que el LED de estado o de error está iluminado.

Puerto de E/S

Asignación de clavijas del puerto de Entrada/Salida

Entrada de sensor

Número de clavija	SENSOR IN
1	3.3 v
2	IN_8 –
3	IN_8 +
4	IN_7 –
5	IN_7 +
6	IN_6 –
7	IN_6 +
8	IN_5 –
9	IN_5 +
10	IN_4 –
11	IN_4 +
12	IN_3 –
13	IN_3 +
14	IN_2 –
15	IN_2 +
16	IN_1 –
17	IN_1 +
18	GND

Salida de alarma

Número de clavija	Salida de alarma
1	GND
2	OUT_8 –
3	OUT_8 +
4	OUT_7 –
5	OUT_7 +
6	OUT_6 –
7	OUT_6 +
8	OUT_5 –
9	OUT_5 +
10	OUT_4 –
11	OUT_4 +
12	OUT_3 –
13	OUT_3 +
14	OUT_2 –
15	OUT_2 +
16	OUT_1 –
17	OUT_1 +
18	3.3 v

RS-422/485

Número de clavija	RS-422	RS-485
19	TX-	TX-
20	TX+	TX+
21	RX-	
22	RX+	

Utilización del receptáculo E/S

Inserte un destornillador de ranura pequeño en la ranura superior o inferior del orificio al que desea conectar el cable (AWG del Nº 28 al 18). Sujete el destornillador, inserte el cable y suelte el destornillador.

Precaución

No ejerza demasiada fuerza al insertar el destornillador en la ranura, ya que, de lo contrario, podrían producirse daños.
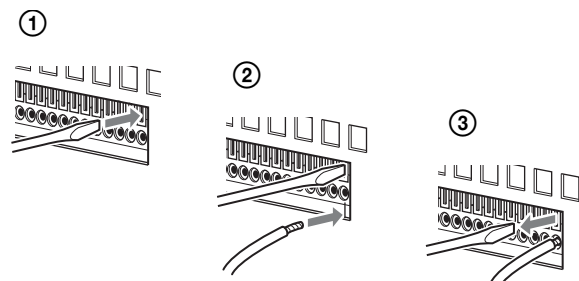
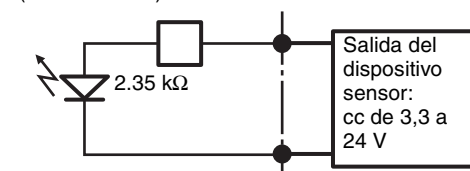Repita el procedimiento para conectar todos los cables necesarios.

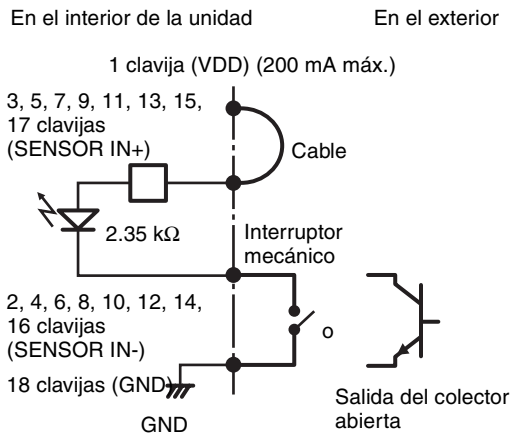## Diagrama de cables 1 para la entrada del sensor

En el interior de la unidad   En el exterior

3, 5, 7, 9, 11, 13, 15, 17 clavijas
(SENSOR IN+)

2.35 kΩ   Salida del dispositivo sensor: cc de 3,3 a 24 V

2, 4, 6, 8, 10, 12, 14, 16 clavijas
(SENSOR IN-)

Diagrama de cables 2 para la entrada del sensor

En el interior de la unidad   En el exterior

1 clavija (VDD) (200 mA máx.)

3, 5, 7, 9, 11, 13, 15, 17 clavijas (SENSOR IN+)

Cable

2.35 kΩ

Interruptor mecánico

2, 4, 6, 8, 10, 12, 14, 16 clavijas (SENSOR IN-)

18 clavijas (GND)

GND

o

Salida del colector abierta

Nota

Si se utiliza el diagrama de cables 2, la NSR no estará aislada eléctricamente, así que asegúrese de construir circuitos externos que no produzcan ruidos, voltaje excesivo ni sobrecargas de corriente.
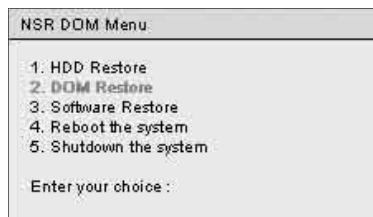
Diagrama de cables de la salida de la alarma

En el interior de la unidad   En el exterior

3, 5, 7, 9, 11, 13, 15, 17 clavijas (ALARM IN+)

5 V

Relé del imán ca de 24 V/cc de 24 V, 1 A o inferior

Ejemplo de circuito

2, 4, 6, 8, 10, 12, 14, 16 clavijas (ALARM IN-)

GND
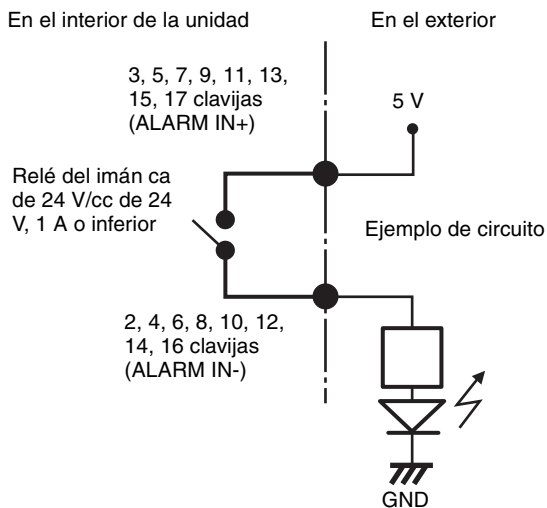
Solución de problemas

Antes de ponerse en contacto con su distribuidor o con un centro de asistencia técnica de Sony, compruebe los siguientes elementos. Si el problema persiste, póngase en contacto con estos.

La NSR no funciona.

- Compruebe que el interruptor de alimentación se encuentra encendido.
- Compruebe que el cable de alimentación se encuentra correctamente conectado.

- Asegúrese de que la toma de pared dispone de alimentación. Enchufe otro dispositivo para comprobar dicha circunstancia.
- Compruebe que no se está accediendo a las unidades de disco duro (los LED del disco duro de la parte frontal de la grabadora no parpadean) y, a continuación, mantenga pulsado el interruptor de alimentación que se encuentra situado en la parte posterior de la unidad durante aproximadamente 10 segundos para apagarla a la fuerza. Reinicie la NSR.
- Durante el procedimiento de encendido, la NSR comprueba el sistema de archivos. La duración de esta comprobación varía en función de la cantidad de datos que se encuentran en la NSR (en algunos casos extremos, es posible que el proceso tarde hasta dos horas). Durante la comprobación del sistema de archivos, los LED del disco duro que se encuentran situados en la parte frontal de la grabadora parpadean.
- Si la NSR no se inicia correctamente, es posible que aparezca la siguiente pantalla.

NSR DOM Menu

1. HDD Restore
2. DOM Restore
3. Software Restore
4. Reboot the system
5. Shutdown the system

Enter your choice :

Si aparece, lleve a cabo el procedimiento siguiente.
1. Seleccione "5. Shutdown the system" y pulse la tecla Intro.
2. Consulte "No es posible acceder a la unidad de disco duro" para comprobar si los discos duros de la NSR se encuentran correctamente conectados.
3. Reinicie la NSR y compruebe si se enciende.

No se visualiza ninguna imagen en el monitor.

- Compruebe si la NSR se encuentra encendida.
- Compruebe si el cable de alimentación se encuentra correctamente conectado.
- Compruebe si el cable del monitor se encuentra correctamente conectado. Compruebe si el monitor se encuentra conectado al conector 1 para monitor.
- Si se configura una resolución de monitor incorrecta, es posible que se muestre el mensaje "Out of range" si la resolución del monitor se demasiado baja en comparación con la salida del monitor. Pulse CTRL+ALT+SIGNO MENOS tantas veces como sea necesario para reducir la resolución de la salida de vídeo. Cuando la resolución de la imagen de salida alcanza la resolución del monitor, se muestra la imagen. Posteriormente, vuelva a configurar la resolución del monitor. Para obtener más información, consulte la Guía del usuario (PDF).

El monitor conectado al conector HDMI no se visualiza correctamente.

- Si se cambia la entrada del monitor HDMI o se vuelve a conectar el cable, es posible que las imágenes no se visualicen correctamente en algunos casos. En tales casos, lleve a cabo lo siguiente.
    1. Cambie la entrada del monitor.
    2. Reinicie el monitor.

Nota

Si el problema persiste una vez llevadas a cabo las acciones anteriores, desconecte el cable HDMI y continúe utilizando el monitor RGB analógico. Si resulta conveniente detener el funcionamiento, reinicie la unidad e intente volver a conectar el monitor HDMI.

El nuevo hardware externo no funciona correctamente.

- Asegúrese de que los cables correspondientes al nuevo dispositivo externo se encuentran correctamente conectados y que los terminales no se encuentran doblados.

No funciona un dispositivo externo que se encuentra conectado a un conector USB.

- Si se conecta un dispositivo USB a la unidad, es posible que se ilumine el indicador [ERROR] en la parte inferior derecha de la pantalla principal. Lleve a cabo lo siguiente para confirmar si la unidad es compatible con el dispositivo USB.
    1. Haga clic en el indicador [ERROR]. Se mostrará el registro del sistema.
    2. Compruebe si se muestra el mensaje de error "Unsupported USB device" en el registro del sistema. Si se muestra el mensaje "Unsupported USB device", significa que la unidad no es compatible con el dispositivo USB.
- Esta unidad admite dispositivos de almacenamiento masivo estándar USB 2.0. Sin embargo, en función del tipo de dispositivo de almacenamiento masivo USB 2.0, es posible que se produzcan errores al escribir datos en el dispositivo. Si se producen errores durante la escritura de datos, utilice un dispositivo de memoria USB de tipo diferente.
- Para garantizar un funcionamiento adecuado de los dispositivos USB, no los conecte a través de un concentrador USB. Conecte los dispositivos directamente a los conectores USB de la unidad. El funcionamiento no se garantiza si se conectan dispositivos a través de un concentrador USB, un selector USB o un cable prolongador.
- Consulte la documentación suministrada con el dispositivo USB.

El sistema no puede leer la información de discos DVD/CD.

- Asegúrese de que está utilizando un tipo de disco correcto.
- Asegúrese de que el disco DVD/CD se encuentra correctamente insertado en la unidad.
- Compruebe que el disco DVD/CD está limpio y no se encuentra rayado.

La bandeja de DVD/CD no se puede expulsar.

- Asegúrese de que la NSR se encuentra encendida.
- Inserte lentamente la punta de un bolígrafo o de un sujetapapeles en el orificio de expulsión de la unidad de DVD/CD. Tire de la bandeja hacia fuera de la unidad y, a continuación, extraiga el disco.

El LED de red no se ilumina.

- Compruebe que el cableado y el equipo de red se encuentran correctamente conectados.

No es posible acceder a la unidad de disco duro.

- Asegúrese de que le unidad de disco duro se encuentra correctamente insertada.
- Compruebe los LED del disco duro del panel frontal del sistema. Lea los LED de las unidades para identificar el disco duro defectuoso. Un LED de disco duro defectuoso no se ilumina.
- Debido al rápido parpadeo que se produce durante el acceso frecuente a la unidad de disco duro, es posible que el LED del disco duro parezca que se encuentra apagado en entornos con mucha iluminación.

No es posible acceder a la NSR desde un cliente remoto.

- Asegúrese de que la NSR funciona correctamente (no debe existir ninguna anomalía en la unidad de disco duro, en la red, en el software ni en ningún otro elemento).
- Asegúrese de que los ajustes del servidor central de la unidad son correctos.
- Asegúrese de ajustar el nombre de usuario, la contraseña y el puerto de conexión correctos en RealShot Manager Advanced.
- Consulte la sección de solución de problemas de esta guía del usuario correspondiente a RealShot Manager Advanced.

La NSR se calienta rápidamente

- Asegúrese de que ningún objeto bloquea las aberturas de ventilación situadas en la parte frontal, posterior y en los laterales de la unidad y que no se ha acumulado polvo en ellas.

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Version 2.1, February 1999

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When we speak of free software, we are referring to freedom of use, not price. Our General Public Licenses are designed to make sure that you have the freedom to distribute copies of free software (and charge for this service if you wish); that you receive source code or can get it if you want it; that you can change the software and use pieces of it in new free programs; and that you are informed that you can do these things.

To protect your rights, we need to make restrictions that forbid distributors to deny you these rights or to ask you to surrender these rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library or if you modify it.

For example, if you distribute copies of the library, whether gratis or for a fee, you must give the recipients all the rights that we gave you. You must make sure that they, too, receive or can get the source code. If you link other code with the library, you must provide complete object files to the recipients, so that they can relink them

with the library after making changes to the library and recompiling it. And you must show them these terms so they know their rights.

We protect your rights with a two-step method: (1) we copyright the library, and (2) we offer you this license, which gives you legal permission to copy, distribute and/or modify the library.

To protect each distributor, we want to make it very clear that there is no warranty for the free library. Also, if the library is modified by someone else and passed on, the recipients should know that what they have is not the original version, so that the original author's reputation will not be affected by problems that might be introduced by others.

Finally, software patents pose a constant threat to the existence of any free program. We wish to make sure that a company cannot effectively restrict the users of a free program by obtaining a restrictive license from a patent holder. Therefore, we insist that any patent license obtained for a version of the library must be consistent with the full freedom of use specified in this license.

Most GNU software, including some libraries, is covered by the ordinary GNU General Public License. This license, the GNU Lesser General Public License, applies to certain designated libraries, and is quite different from the ordinary General Public License. We use this license for certain libraries in order to permit linking those libraries into non-free programs.

When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use

the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library,

complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

1. You may copy and distribute verbatim copies of the Library's complete source code as you receive it, in any medium, provided that you conspicuously and appropriately publish on each copy an appropriate copyright notice and disclaimer of warranty; keep intact all the notices that refer to this License and to the absence of any warranty; and distribute a copy of this License along with the Library.

You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

   a) The modified work must itself be a software library.
   b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
   c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
   d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

   (For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or

table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not.
Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6.
Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library

and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at run time a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

    a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.

    b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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To apply these terms, attach the following notices to the library. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

    <one line to give the library's name and a brief idea of what it does.>
    Copyright (C) <year> <name of author>

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Also add information on how to contact you by electronic and paper mail.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the library, if necessary. Here is a sample; alter the names:

Especificaciones

NSR-1200/1100/1050H

Procesador

CPU   NSR-1200: Quad Core Xeon
NSR-1100: Dual Core Xeon
NSR-1050H: Dual Core Xeon

Memoria

Memoria flash integrada
4 GB
Memoria interna   NSR-1200:2 GB
NSR-1100:1 GB
NSR-1050H:1 GB

Dispositivos de grabación

Unidad de disco duro interna
NSR-1200: 2 TB
(SATA-II 500 GB × 4)
NSR-1100: 1 TB
(SATA-II 500 GB × 2)
NSR-1050H: 500 GB
(SATA-II 500 GB × 1)
Las capacidades de las unidades de disco duro están basadas en la siguiente ecuación para 1 GB:
$1.000 \times 1.000 \times 1.000 = 1.000$ millones de bytes

Unidad de DVD/CD (frontal)
1 unidad
Soportes compatibles: DVD+R, DVD-R,
DVD-ROM, CD-R, CD-RW, CD-ROM

Conectores externos

Parte frontal   Salida de monitor:
RGB analógica (mini D-SUB de 15 contactos) (1)
USB: USB 2.0 (3)

Parte posterior   Salida de monitor:
RGB analógica (mini D-SUB de 15 contactos) (2)
HDMI (2)
Salida de sonido (L) (1)
Salida de sonido (R) (1)
Entrada de sonido (1)
LAN (1000Base-T/100Base-TX/ 10Base-T) (RJ-45) (4)
USB: USB 2.0 (3)
Salida mini-SAS (para la conexión opcional de la unidad NSRE-S200, mini-SAS ×4 (SFF-8088), 3,0 Gbit/s) (1)

Entrada del sensor (compatible con dispositivos de 3,3 V a 24 V de cc, entrada de fotoacoplador, aislada de la unidad principal) (8)

Salida de alarma (máximo de 24 V de cc, 1 A, salida de relé mecánico, aislada de la unidad principal) (8)

UPS de serie: RS-232C (1)

Control de cámaras analógicas (únicamente con la NSR-1050H o la extensión NSBK-A16): RS-232C (1) RS-422/485 (1)

Entorno operativo

Temperatura de funcionamiento
Entre 5 °C y 40 °C (entre 41 °F y 104 °F)

Humedad de funcionamiento
Entre el 20% y el 80% (temperatura máxima del termómetro de bulbo húmedo: 30 °C, sin condensación)

Rango de temperatura de almacenamiento
de –20 a +60 °C (–4 a +140 °F)

Rango de humedad de almacenamiento
del 20 al 90% de humedad relativa (temperatura máxima de higrómetro de 40 °C/+104 °F, sin condensación)

Alimentación y varios

Alimentación   Entre 100 y 127 V de ca/entre 200 y 240 V de ca (50/60 Hz)

Consumo de energía
Máx. 350 W

Dimensiones   430 × 87 × 417 mm (16,9 × 3,4 × 16,4 pulgadas) (an/al/prf, sin incluir las partes salientes)

Peso   NSR-1200: aprox. 13,5 kg (29,8 lb.)
NSR-1100: aprox. 12 kg (26,7 lb.)
NSR-1050H: aprox. 11,5 kg (25,4 lb.)

Accesorios opcionales

Kit de montaje del bastidor NSR-RM1
Kit de codificador analógico NSBK-A16
Unidad de almacenamiento de extensión NSRE-S200

El diseño y las especificaciones están sujetos a cambios sin previo aviso.

Notas
- Haga siempre un ensayo de grabación y verifique que se grabó bien.
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- Verifique siempre que esta unidad funciona correctamente antes de utilizarlo. SONY NO SE HACE RESPONSABLE POR DAÑOS DE NINGÚN TIPO, INCLUYENDO PERO NO LIMITADO A LA COMPENSACIÓN O PAGO POR LA PÉRDIDA DE GANANCIAS PRESENTES O FUTURAS DEBIDO AL FALLO DE ESTA UNIDAD, YA SEA DURANTE LA VIGENCIA DE LA GARANTÍA O DESPUÉS DEL VENCIMIENTO DE LA GARANTÍA NI POR CUALQUIER OTRA RAZÓN.

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使用方面的注意事项

安全方面的重要说明

- 请务必将设备连接到完全符合本设备电气规格的电源。
- 只能使用随附的电源线。请勿盘绕电源线或者与其他配线捆扎在一起。切勿重叠连接线。如果超过了额定电流，则有可能引起火灾及其他事故。
- 请确保所有交流插座及电源线均已安全接地。
- 本机盖子或外壳打开或取下时，请勿使用本机。否则可能会引起火灾及触电。请您不要尝试打开或取下盖子。必须打开时请务必联系您的供货商。

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为了延长本产品的使用寿命，请不要在下列场所使用或贮藏。

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- 会受到长时间光照的场所，以及靠近加热器的场所。（请注意夏季紧闭门窗的汽车内的温度会超过 +50 ℃/+122 ℉。）
- 高湿度或多尘场所
- 会受到强烈振动的场所
- 会受到强磁场影响的场所
- 收音机或电视机发射器产生的强磁场附近

切勿堵塞通风孔
- 机侧的通风孔用于防止内部产生积热。请务必在机身两侧、后方及上方留出 10 cm 以上的间隙。
- 切勿在密闭的盒子或其他封闭物中使用本机。
- 请确保本机背面上的风扇排气孔附近不要有电缆及其他物体。如果此处堵塞，则机内将产生积热，从而可能会引起火灾及损害。
- 另外当本机安装在托架中时，请务必确保机背面的风扇排气孔以及前方的通风孔没有被电缆或其他物体堵塞。切勿将本机安装在无法满足上述要求的环境中。

水平使用本机
- 本机必须水平操作。
- 切勿将本机安装在斜面上，同时勿使本机受到震动。
- 如果本机掉落在地上或者受到其他强烈震动，则可能会使其严重受损。
- 将本机安装在托架中时，请确保使其保持水平。如果本机没有水平安装，则可能产生故障。另外，强烈建议您将托架固定在墙壁或类似物体上，以免其倾倒。

维护
- 清洁本机或者进行其他维护以前，请务必将电源线从交流插座上拔下。

- 请用干布轻轻擦拭机壳及面板进行清洁。对于顽渍，请用清洁布蘸少量温和的中性清洁剂，然后用干布擦干。
- 切勿使用清洁酒精、稀释剂、汽油、杀虫剂或任何其他挥发性物质，否则可能会损伤其表面及造成褪色。
- 灰尘会聚集在设备正面的通风口处。除去灰尘时，切勿使设备受到震荡或振动。

运输
请使用原包装或类似包装材料，以免本机受到震动。

内置 HDD 的产品的注意事项
本机配备有内置硬盘驱动器 （HDD）。 HDD 属于精密装置。如果遇到震荡、振动、静电、高温或高湿等情况，数据可能会丢失。本机安装使用时，请务必注意下列事项。

勿使其受到震荡
受到震荡时，可能会造成 HDD 损坏以及 HDD 上的数据丢失。

- 当运输本机时，请使用指定的包装材料。当放在台车或类似车辆上运输时，请选用不会传送剧烈振动的车辆。剧烈震荡可能会造成 HDD 损坏。
- 切勿在电源接通时移动本机。另外，将本机取出或插入托架以前，请确保电源已经关闭。
- 确保托架中所有配备有 HDD 的装置免受震荡。
- 将本机取出或插入托架以前，请确保托架中其他配备有 HDD 的装置的电源也已关闭。
- 切勿取下本机的面板或外部组件。
- 将本机安置于地板或其他表面上时，请确保本机已装配有指定底脚，然后小心放下本机。
  如果没有底脚，请先安装随机附带的橡皮垫脚，切勿将本机安装在可能成为振动源的装置旁边。

电源关闭后请等待 30 秒
电源关闭后的一段短时间内， HDD 内的盘片将继续旋转，同时磁头位于不稳定的位置。在这段时间内，震荡对机器的影响比正常操作时更大。电源关闭后至少 30 秒的时间段内，切勿使本机受到丝毫震动。这段时间以后，硬盘将完全停止运转，此时可对本机进行操作。

温度及湿度方面的注意事项
只能在未超出指定温度和湿度范围的场所使用和贮藏本机。（保持本设备的规格。）

当 HDD 似乎出现故障时
即便 HDD 已经显示出存在故障，也请务必注意以上所有事项。这样可以在问题得到诊断及解决以前防止进一步损坏。

更换 HDD 和其它易耗件
本设备的 HDD、风扇和电池都属于易耗件，需要定期更换。在室温下运行时，更换周期一般为两到三年。但是，此更换周期仅为一般准则，并不表示

CS

这些部件的预期寿命保证就是如此。有关部件更换的详细信息，请联系您的经销商。

使用 USB 设备的注意事项

- 本设备支持标准 USB 2.0 大容量存储设备。但是，在向设备写入数据时可能会出现错误，具体情况视 USB 2.0 大容量存储设备的类型而定。如果写入数据时出错，请使用其它类型的 USB 存储设备。

- 为了确保正确操作 USB 设备，请勿通过 USB 集线器连接设备。请将设备直接连接到本设备上的 USB 接口。如果通过 USB 集线器、USB 开关或延长电缆连接设备，则无法保证能够正常操作。

概述

NSR 系列是用于网络摄像头的硬盘记录服务器。您可以使用 NSR 监视并记录网络摄像头图像（JPEG 或 MPEG-4）。还可以用它播放和搜索记录的图像，NSR 是真正意义上的多用途监视系统。

从远程位置控制兼容的摄像头

可对兼容的摄像头执行摇摄、倾斜和变焦操作。

与模拟摄像头兼容

将兼容摄像头直接连接到设备 [1]，则可从模拟摄像头监视和记录图像。

[*1] NSR-1200/1100 需要 NSBK-A16 （可选）扩展，而 NSR-1050H 配有内置接口。

大容量硬盘可实现长时间记录

本设备配备了大容量的硬盘，能够长时间记录高质量的图像。有关参考示例，请参阅 "安装参考数据"（第 298 页）。

纤巧造型 (2U)、节省空间的 19 英寸机架式安装设计

通过可选的机架安装套件 （单独出售），可在标准通用间距 EIA 19 英寸机架上安装记录仪。

记录图像的分辨率最高可达 480 fps （VGA、JPEG）

NSR-1200 最多支持 64 个摄像头，NSR-1100 最多支持 32 个摄像头，NSR-1050H 最多支持 20 个摄像头。为获得优良的图像品质，NSR-1200 应以 480 fps[1] 的最高帧率 （NSR-1100 为 240 fps，NSR-1050H 为 120 fps）、VGA 分辨率 （640 × 480 像素）[2] 和 JPEG 的图像格式 （1 帧约为 31 KB）记录图像。

[1] 16 个摄像头连接到记录器时的最大帧率。每个摄像头的帧率约为 30 fps。内部硬盘的碎片可使该帧率下降。这些值是以 Sony 进行的测量为基础的。在用户操作环境中，性能可能会发生变化，因此无法确保这些值不会改变。

[2] QuadVGA 分辨率(1,280 × 960)下的帧率是 VGA 分辨率下帧率的 1/4。

高可靠性

NSR-1200 支持 RAID 5[1] 并且运行十分稳定。即使一块硬盘出现故障，系统仍可继续运行。同样，由于系统软件和设置存储在 NSR 的内部闪存上，因此如果系统软件出现故障，系统也可以非常迅速地得到恢复。NSR 还支持不间断电源 (UPS)，使系统极其稳定可靠。

[1] RAID 5 是一种可在多个硬盘驱动器上划分和存储数据及奇偶校验 （错误纠正代码）的系统。虽然此系统在其中某个硬盘出现故障后仍可以继续运行，但并不保证可以恢复丢失的数据。此外，由于更换故障硬盘后的重建过程中存在内部处理量过大的问题，因此在进行重建时，设备可能无法以配置的记录速率记录图像。

其他特性

- 您可以在一个屏幕上显示来自多达 64 台摄像机的图像 (8 × 8 个图像)。
- 除了其他功能外，NSR 还可以进行手动、预定以及警报记录。
- NSR 具备活动检测功能 [1]（Video Motion Detection（记录器））。
- 可以按摄像机名称、日期、警报以及其它方法搜索记录图像。
- 使用 NSR 的动态屏蔽功能 [2] 可以创建保密区。动态屏蔽包括摇摄、倾斜和变焦。
- 通过使用摄像头发送的对象信息元数据形式的图像处理结果，来执行各种类型的过滤 [3]，可执行准确的报警处理。因为过滤可应用于已经记录的元数据，所以在记录完成后还可搜索感兴趣的区域。
- 支持兼容摄像机的音频记录和播放 [4]。

[1] 某些功能将受到限制，这取决于连接的摄像机数。
[2] 根据连接的摄像机型号不同，某些功能会受到限制。
[3] 要使用元数据执行对象检测和非对象检测，需要使用根据元数据支持对象检测的摄像头。使用元数据时最多支持 32 台摄像机。
[4] 需要使用可选的音频放大器或扬声器。

重要

本手册仅说明如何安装和配置 NSR。有关如何使用本设备的详细说明，请参阅用户指南 (PDF)。

系统要求

要使用本记录器，请遵循以下硬件要求。

- Sony 网络摄像头
  有关兼容的 Sony 网络摄像头的详细信息，请联系您的经销商。
- 监视器 [1]
- USB 键盘 [2]
- USB 鼠标 [3]
- USB 远程控制器 [4]
- 网络交换机
- 1000Base-T/100Base-TX/10Base-T 电缆
- USB 存储设备 [5]

*1 本设备支持兼容 HDMI 的设备和支持 RGB 输入的计算机显示器。
可指定以下分辨率。
全高清 (1,920 × 1,080)
WUXGA (1,920 × 1,200)
全宽度 XGA (1,360 × 768)
UXGA (1,600 × 1,200)
SXGA (1,280 × 1,024)
XGA (1,024 × 768)

*2 可使用带电缆的 USB 键盘。但除标准键外的其他键可能不起作用。无线或红外线 USB 键盘也可能无法正确工作。

*3 可使用带电缆的 USB 鼠标。但是，三键鼠标或滚轮鼠标可能无法正确工作。无线或红外线 USB 鼠标也可能无法正确工作。

*4 您可使用远程控制器控制摄像头的摇摄、倾斜和变焦操作。
本设备支持 CH Products 的 IP 桌面 USB 控制器。不支持其他远程控制器。

*5 备份系统信息 （例如日志）时需要用到。
本设备支持标准的 USB 2.0 大容量存储设备。但是，向设备写入数据时可能出错，这取决于 USB2.0 大容量存储设备的类型。如果写入数据时出错，则请换用不同类型的 USB 存储设备。

注意

使用支持 HDMI 和 RGB 输入的显示屏时，建议使用 RGB 输入。

包装内容

检查本包装内是否包含以下物品：

NSR-1200/1100
- NSR-1200/1100 监控记录服务器 (1)
- 前面板钥匙 (2)
- 安装手册 （本文档） (1)
- 初次操作指南 (1)
- 监视窗口操作指南 (1)
- 安全规则 (1)
- WEEE 手册 (1)
- 保修手册 (1)
- 橡胶脚垫 (4)

NSR-1050H
- NSR-1050H 监控记录服务器 (1)
- 前面板钥匙 (2)
- 模拟摄像头输入电缆 (1)
- 安装手册 （本文档） (1)
- 初次操作指南 (1)
- 监视窗口操作指南 (1)
- 安全规则 (1)
- WEEE 手册 (1)
- 保修手册 (1)
- 橡胶脚垫 (4)

注意

- 本包装内可能含有附加硬件和/或用于这些选件的文档。
- 请保存好包装盒和包装材料，以备将来使用。
- 支架安装套件 (NSR-RM1) 是可选装置 （分开销售）。

下载 NSR 上保存的文件

文档 （例如操作手册）和工具存储在 NSR 设备上。要下载 NSR 设备上存储的文件，请执行以下操作。

1 在计算机上使用 FTP 客户端 （例如 Internet Explorer）指定以下 URL。
ftp://ftptool@<NSR IP 地址 >

2 输入以下用户名和密码。
用户名：　　ftptool
密码：　　　ftptool

注意

要更改用户名和密码，请在 "设置菜单" 的 "FTP" 中更改 [Enable user to Get Tools from Remote] 配置。此外，如果您更改了用户名，则必须同时将指定 URL 中 "ftp://" 后的地址更改为新的 "user name@<NSR IP address>。"

FTP 客户端中会列出以下文件夹和文件。

3 单击包含所需文件的文件夹。

文件夹
Manual：　　　包含操作手册 (PDF)。
SourceCode：　包含 GPL/LGPL 源代码和其它此类数据。
Tool：　　　　包含 RealShot Manager Advanced 和 Media File Player。
文件
README.txt：包含各文件夹的信息。

每个文件夹中包含的文件会显示出来。

4 单击需要的文件进行下载。

使用 PDF 手册

NSR 上存储着操作手册和其他文档（日语、英语、法语、德语、意大利语、西班牙语、简体中文和俄语版本）。
这些手册的副本以 pdf（可携带文件格式）格式创建。

准备工作

要使用 NSR 上存储的操作手册，您的计算机必须安装以下软件。
• Adobe Reader 6.0 版或更高版本

注意

如果未安装 Adobe Reader，则可从以下 URL 下载：
http://www.adobe.co.jp/

Adobe 和 Adobe Reader 是 Adobe Systems Incorporated 在美国和 / 或其他国家 / 地区的商标。

查看 PDF 手册

1 请参阅"下载 NSR 上保存的文件"并从 NSR 上的 "Manual" 文件夹中下载符合您所用语言的手册。

2 双击下载的文件。

注意

文件可能因所用的 Adobe Reader 版本而无法正确显示。如果文件不能正常显示，请通过 "准备工作"章节中提供的 URL 下载最新版的 Adobe Reader。

特性和功能

正面 （前面板开启时）

NSR-1200/1100/1050H
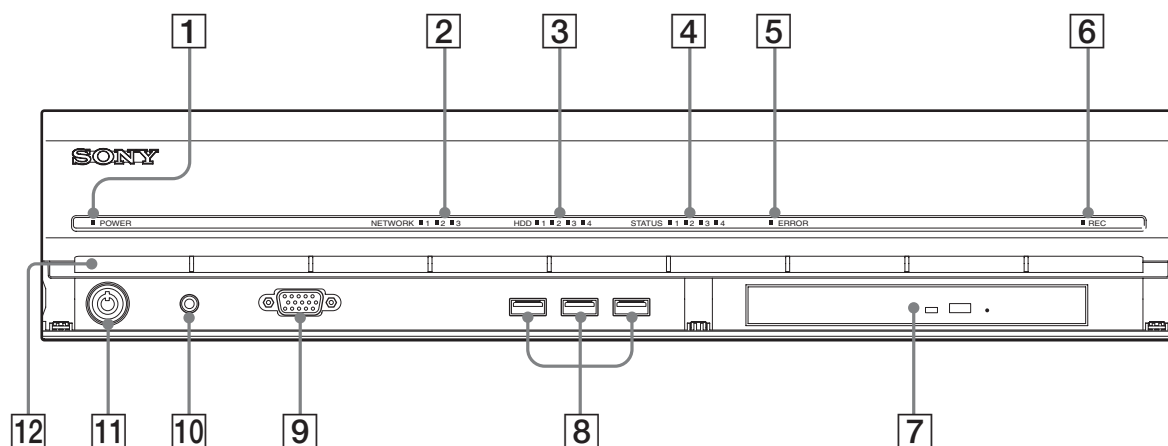
[1] **电源 LED**
设备开启后呈绿色。
待机状态时发出黄光。

[2] **网络 LED （1 至 3）**
NSR 背面 LAN 接口上进行作业时，相应指示灯发
出绿光。

[3] **HDD LED**
访问内部硬盘时，指示灯闪烁绿光。
硬盘出错时，指示灯发出黄光。

[4] **状态 LED （1 至 4）**
NSR 启动时，这些灯依次变亮 （顺序为 1、2、3、
4）。发生错误时，相应的状态 LED 会与错误 LED
一起发光，后者通过发光或闪烁来指示错误类型。
有关详细信息，请参阅 "状态 LED" （第 317
页）。

[5] **错误 LED**
出错时发光或闪烁。

[6] **REC LED**
记录图像时亮起。

[7] **DVD/CD 驱动器**
使用该驱动器可将数据从 NSR 硬盘写入 DVD 和
CD。

[8] **USB 接口**
本接口用于将 USB 键盘、鼠标或 USB 闪存连接到
NSR。

[9] **监视器接口 1**
该接口用于连接监视器。
监视器接口 1 （监视器接口 1 位于设备背面）和设
备背面的 HDMI 监视器接口 1 不可同时使用。

[10] **电源开关**
按下此开关打开设备。（您不能使用此开关来关闭
设备。）

[11] **锁**
使用该锁与随附的前面板钥匙结合，用于锁定前
盖。前盖在锁定时是无法拉出的。此外，在前盖已
拉出时不要将其锁定。通过查看锁的位置可分辨锁
定位置与未锁定位置，如下图所示。

前盖已锁定　　　　　　　　前盖未锁定

[12] **通风孔**
这些开口可使空气从 NSR 正面流向背面。
请勿堵住通风孔，让灰尘在通风孔的内网上累积或
以其他任何方式阻塞气流。阻塞气流会使热量在
NSR 内部逐渐积聚，并可能引起火灾或导致伤害。

背面

NSR-1200/1100
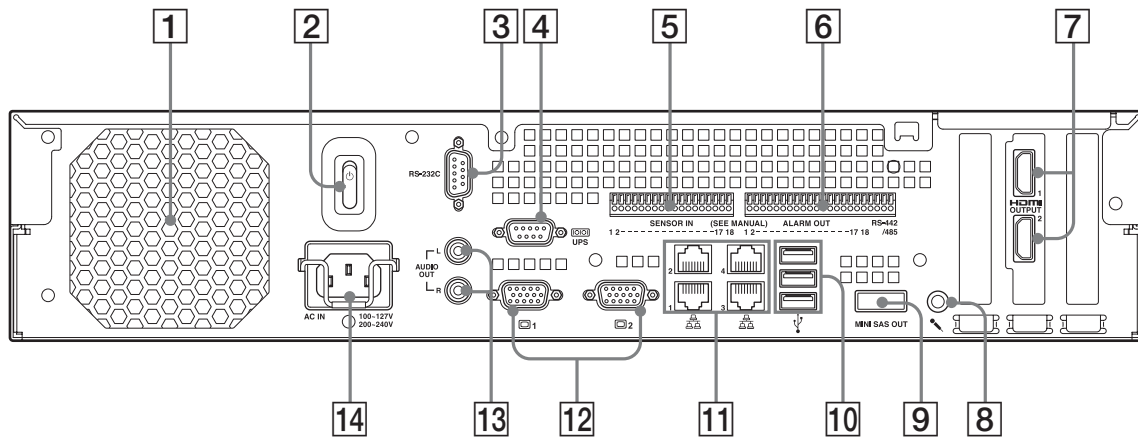
NSR-1050H
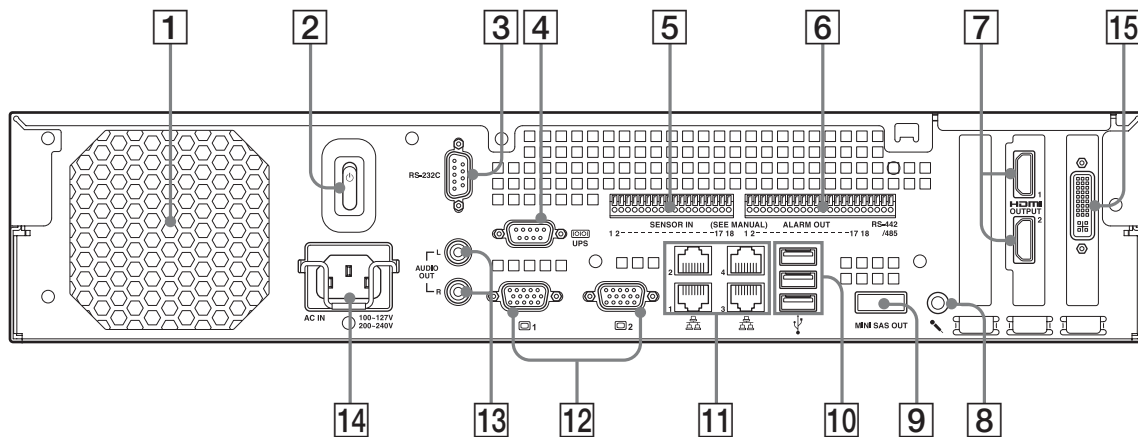
1 **风扇**
注意不要阻塞风扇格栅。如果阻塞格栅，则热量会在设备内部逐渐积聚，导致伤害和 / 或火灾。

2 **电源开关**
要打开设备，请按下位置 ⏻ 上的开关。

3 **RS-232C 接口**
本接口用于控制模拟摄像头。 .
本接口不可与 RS-422/485 接口（报警器输出接口 6 上最右边的四个引脚）同时使用。

4 **UPS 接口 (RS-232C)**
本接口用于连接不间断电源 (UPS) 的控制线。

5 **传感器输入接口**
本接口用于连接传感器输入线。
有关传感器输入连接的详细信息和布线图，请参阅"I/O 端口"（第 318 页）。

6 **报警器输出接口**
本接口用于连接报警器输出线。
有关报警器连接的详细信息和布线图，请参阅 "I/O 端口"（第 318 页）。

7 **HDMI 监视器接口 （1 和 2）**
这些接口用于连接支持 HDMI 输入的监视器。
HDMI 监视器接口 1 与 12 监视器接口 1 （以及位于设备正面的监视器接口 1）不可同时使用，而 HDMI 监视器接口 2 与 12 监视器接口 2 也不能同时使用。

8 音频输入接口

本接口用于从外部音频设备 （例如麦克风）输入音频。

支持插入式功率麦克风。

9 微型 **SAS** 输出接口

本接口用于连接微型 SAS 电缆，该电缆用于连接 NSRE-S200。

NSRE-S200 是可选的扩展存储设备。

10 **USB** 接口

本接口用于将 USB 键盘、鼠标或 USB 闪存连接到 NSR。

11 **LAN** 接口 （**1** 至 **4**）

这些接口用于连接 10 Base-T、 100 Base-T 或 1000 Base-T 网络电缆。

LAN1：网络摄像头

LAN2：远程客户端

LAN3：以备将来进行扩展

LAN4：以备将来进行扩展

12 监视器接口 （**1** 和 **2**）

这些接口用于连接监视器。

监视器接口 1 （以及位于设备正面的监视器接口 1） 与 8 HDMI 监视器接口 1 不可同时使用，而监视器接口 2 与 8 HDMI 监视器接口 2 也不能同时使用。

13 音频输出接口 （**L** 和 **R**）

这些接口用于将音频输出到外部音频设备。

14 电源接口

本接口用于连接电源线。

15 模拟摄像头电缆输入接口

借助模拟摄像头输入电缆使用该接口连接模拟摄像头。

NSR-1050H 的标准配置里有本接口，但是 NSR-1200/1100 需要 NSBK-A16 （可选）扩展。

安装参考数据

电流消耗和浪涌电流

型号	交流输入电压	满负荷	涌入电流
NSR-1200	100 V	2.66 A	
	220 V	1.14 A	
NSR-1100	100 V	1.84 A	
	220 V	0.79 A	
			13 A
NSR-1050H	100 V	1.75 A	
	220 V	0.76 A	
NSRE-S200	100 V	0.79 A	
	220 V	0.34 A	

记录数据的存储容量

NSR-1200/1100/1050H 和可选扩展存储设备上记录数据的存储容量如下所示。

型号	记录数据的存储容量
NSR-1200	1,366 GB
NSR-1100	886 GB
NSR-1050H	443 GB
NSRE-S200	1,396 GB

* 数据容量是一个近似值，约为 1 GB，基于以下方程得到： 1,024 × 1,024 × 1,024 = 1,073,740,000 字节

记录持续时间指南

服务器	扩展存储	摄像头数目	编解码器（尺寸）	天数	比特率	帧率
NSR-1050H	0 个	8	MPEG4 (VGA)	10	512 kbps	10.00 fps
NSR-1100	0 个	16	MPEG4 (VGA)	10	512 kbps	10.00 fps
NSR-1200	0 个	16	MPEG4 (VGA)	16	512 kbps	10.00 fps
NSR-1200	7 个	16	MPEG4 (VGA)	60	1,024 kbps	20.00 fps
NSR-1050H	0 个	4	JPEG (VGA)	4	级别 5	10.00 fps
NSR-1100	0 个	4	JPEG (VGA)	10	级别 5	8.00 fps
NSR-1200	0 个	16	JPEG (VGA)	30	级别 5	1.00 fps
NSR-1200	7 个	16	JPEG (VGA)	30	级别 5	9.00 fps

摄像头数目

摄像头最大数目

型号	摄像头最大数目
NSR-1200	64
NSR-1100	32
NSR-1050H	20

模拟摄像头最大数目 （包括在摄像头总数内）

型号	模拟摄像头最大数目
NSR-1200	16 （使用可选的 NSBK-A16）
NSR-1100	16 （使用可选的 NSBK-A16）
NSR-1050H	16

兆像素摄像头最大数目 （包括在摄像头总数内）

型号	摄像头最大数目
NSR-1200	8
NSR-1100	4
NSR-1050H	4

示例：NSR-1050H （摄像头最大数目：20）
IP 摄像头： 12
IP 摄像头 （兆像素）：4
模拟摄像头： 4

准备步骤

第 1 步：安装 （第 300 页）
↓

第 2 步：连接 （第 303 页）
将各设备连接到本设备。
↓

第 3 步：设置 （第 307 页）

打开设备。
↓
根据安装向导配置初始设置。
↓
登录。
↓
执行基本配置。

自动注册摄像头。	选择要注册的摄像头。
配置报警记录。	配置排定的记录。

↓

第 4 步：检查操作 （第 314 页）
↓

如果需要进行高级配置
请参阅用户指南 (PDF)。

第 1 步：安装

开始安装之前，请确保安装位置有充足空间且具有足够强度以支撑设备。
NSR-1200 约重 13.5 kg（29.8 磅）、NSR-1100 约重 12 kg（26.7 磅）而 NSR-1050H 约重 11.5 kg（25.4 磅）。本设备的尺寸如下。

3.4 英寸（87 毫米）
16.9 英寸（430 毫米）
16.4 英寸（417 毫米）

顶部

顶部

16.4 英寸（417 毫米）
16.9 英寸（430 毫米）

前挡板合起时

16.4 英寸（417 毫米）
1.6 英寸（40 毫米）　14.8 英寸（377 毫米）

前挡板开启时

19.4 英寸（494 毫米）
4.6 英寸（117 毫米）
4.2 英寸（106 毫米）
14.8 英寸（377 毫米）

18.9 英寸（479 毫米）
4.0 英寸（102 毫米）
14.8 英寸（377 毫米）
4.8 英寸（123 毫米）
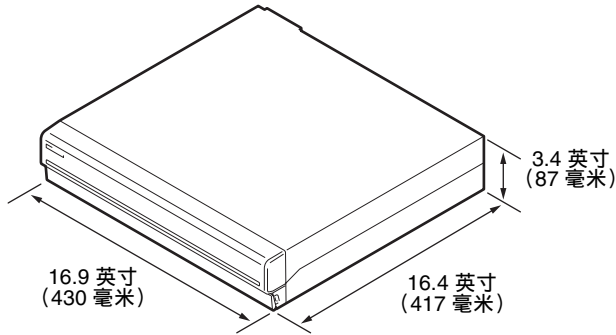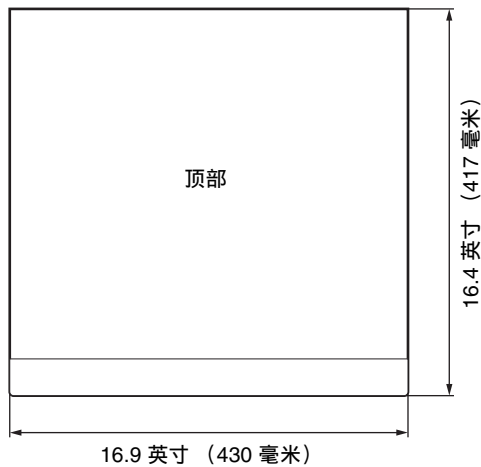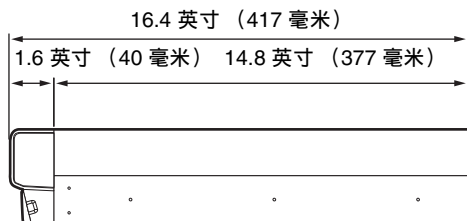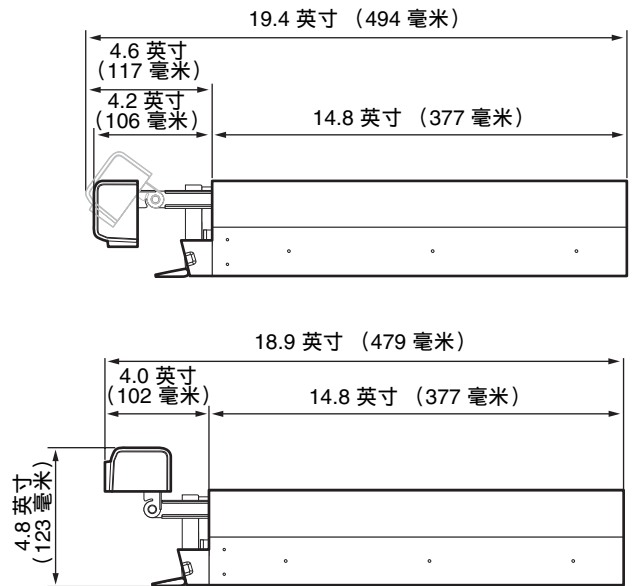
可使用可选的机架安装套件将设备安装在机架上。

无机架安装

将附送的橡胶脚垫粘贴在记录仪上。
将记录仪竖起，露出下表面。如下图所示，将橡胶脚垫有粘性的一面粘贴在记录仪底部。

除去保护膜
橡胶脚垫
设备底部
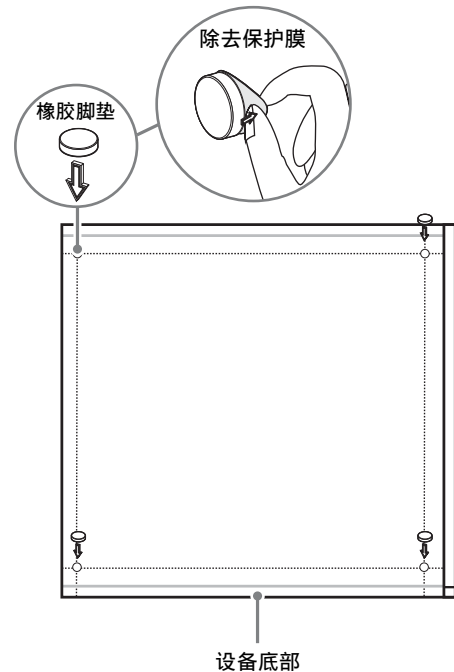
机架安装

使用可选的机架安装套件 （单独出售）在机架上安装 NSR。

警告

- 切勿将可选的安装套件 （单独出售）以外的机架安装套件用于 NSR，因为这样做很危险，并且可能导致火灾、震动或受伤。
- 如果要在机架上安装 NSR，则千万不要在其上放置重物。
- 在机架上安装 NSR 之前，我们建议您用毡尖笔在机架上标出预期位置。如果 NSR 未能水平安装在机架上，则可能导致故障。
- 要订购机架安装套件，请联系零售商。

拉出内部导轨

从导轨组件中拉出内部导轨。

1 最大限度地将内部导轨从导轨组件中拉出。
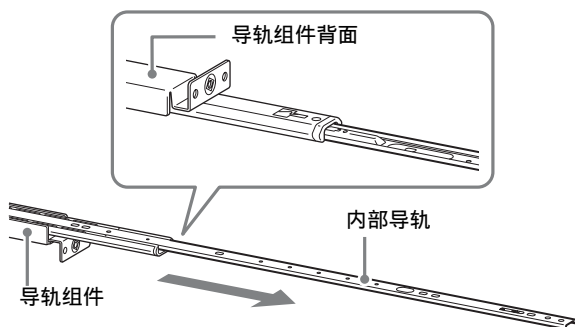
2 翻转导轨组件。一边向外拉动绿色卡扣打开锁，一边向外拉动内导轨。
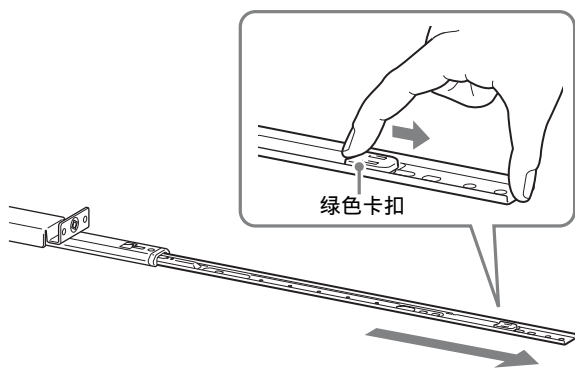
3 对其他导轨组件重复同样的操作，拉出所有内导轨。

注

内导轨安装在 NSR 上，而导轨组件安装在机架上。

准备 NSR 主机

使用随附的紧固件和螺钉将内导轨安装在 NSR 主机上。

1 使用随附的沉头机螺钉将装配把手安装在侧面板的正面。
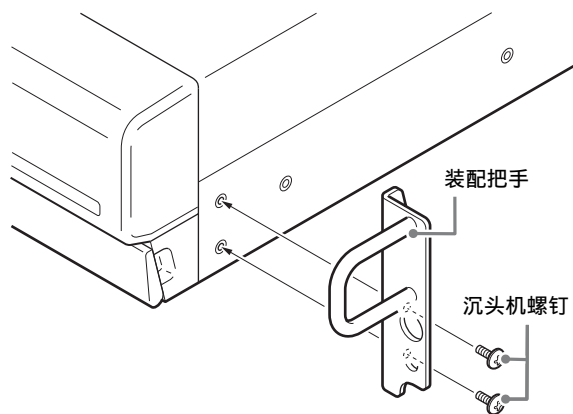
2 使用剩余的随附圆头螺钉将导轨安装在 NSR 主机上，如下所示。
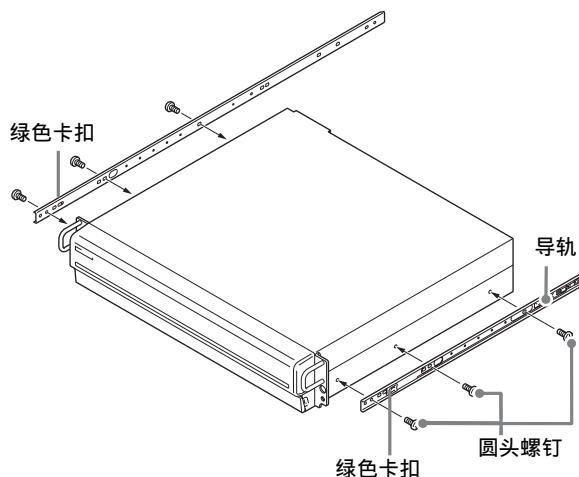
注意

使用非随附的螺钉可能导致设备损坏。请务必使用随附的螺钉来安装导轨。

准备机架

将导轨安装在机架上。

1 确定要将导轨安装在机架的什么位置。
我们建议您用标记或毡尖笔标出该位置。

注意

如果导轨安装的高度不同，会导致 NSR 主机不能正常工作。

2 将导轨安装在机架上。

(1)调整导轨的长度，使其与机架等长。
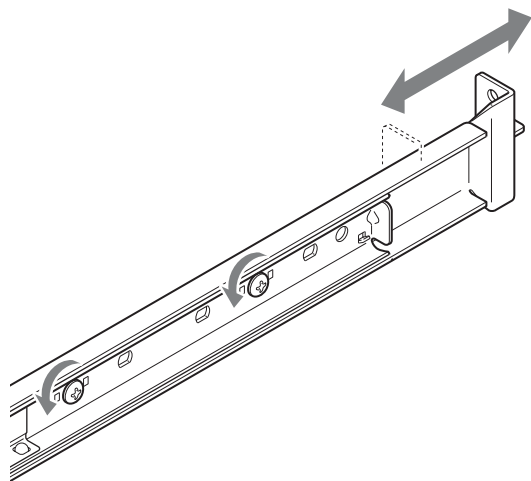
(2)使用随附的铆钉和垫圈将导轨的两端固定在机架上。

铆钉

垫圈
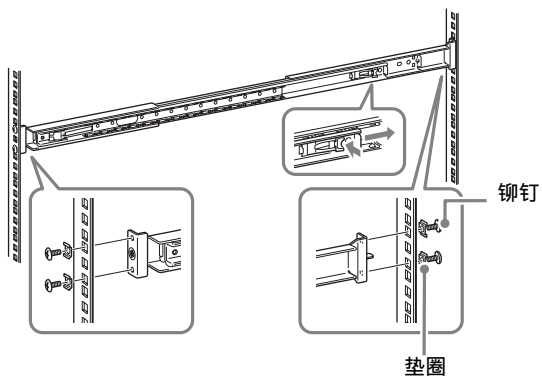
将 NSR 主机安装在机架上

将 NSR 插入机架，然后固定。

注意

至少需要两人拿住设备，以免造成人身伤害。

1 将滑轨从导轨组件中拉出。
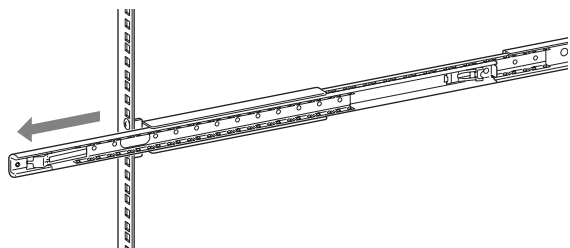
2 抬起 NSR 主机，将内部导轨装入滑轨凹槽（白色），然后滑动组件直到其停止。

内部导轨
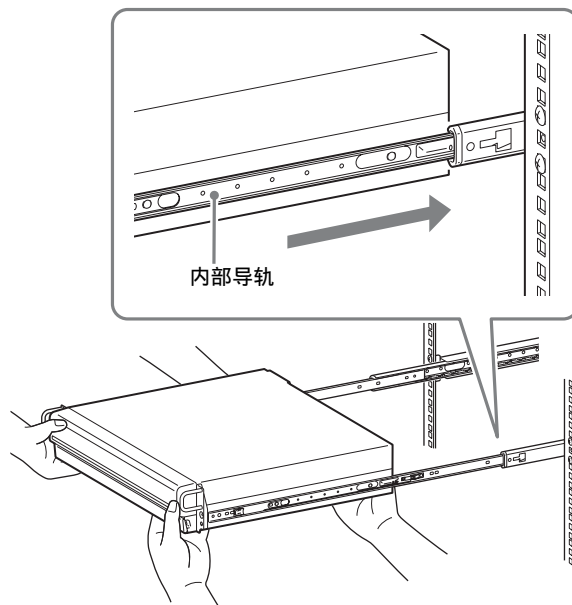
3 一边拉动绿色卡扣打开锁，一边将 NSR 主机滑至最远位置。

绿色卡扣
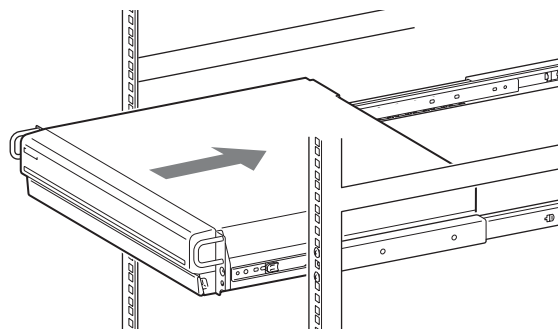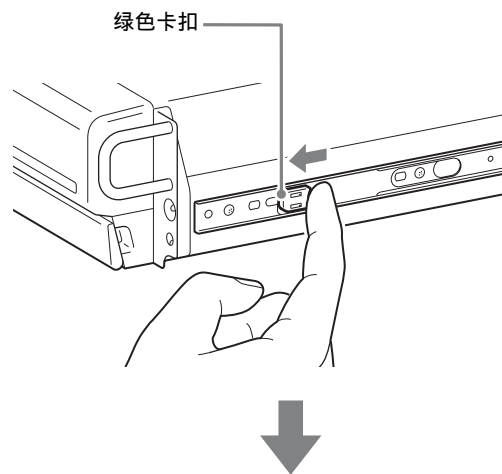
4 使用随附的圆头螺钉将 NSR 主机固定在机架上。

圆头螺钉
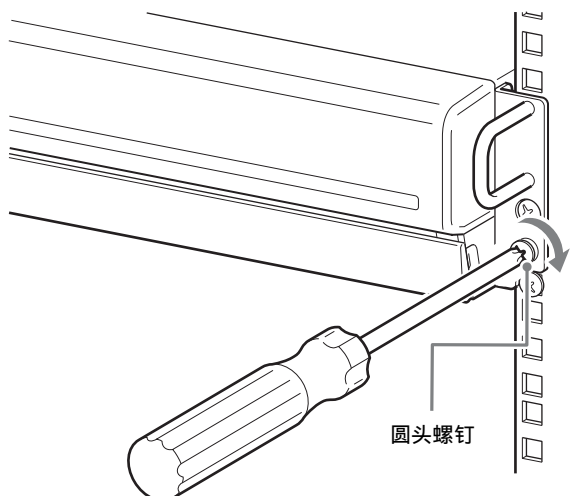
安装可选配件

请参阅 NSRE-S200 系列的 "安装手册",安装 NSRE-S200。有关 NSBK-A16 扩展的详细信息,请联系您的 Sony 经销商。

第 2 步:连接

将各设备连接到本设备。

连接监视器

连接第一台监视器时,可将其连接到模拟 RGB 监视器接口 1 或 HDMI 监视器接口 1。
连接第二台监视器时,可将其连接到模拟 RGB 监视器接口 2 或 HDMI 监视器接口 2。
有关详细信息,请参阅 "监视器连接示例"
(第 315 页)。

示例:连接到背面的监视器接口时

监视器 1

监视器接口 1

监视器 1   监视器 2
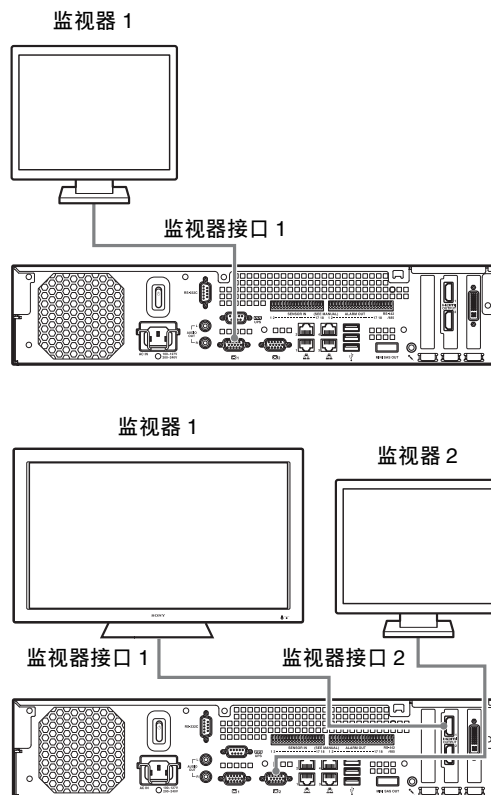
监视器接口 1   监视器接口 2

操作设备时推荐使用的接口

监视器		要使用的接口			
		HDMI 监视器接口 1	HDMI 监视器接口 2	模拟 RGB 监视器接口 1	模拟 RGB 监视器接口 2
一台监视器	HDMI 监视器	○	–	–	–
	模拟 RGB 监视器	–	–	○	–
两台监视器	HDMI 监视器 ×2	○	○	–	–
	模拟 RGB 监视器 ×2	–	–	○	○
	HDMI 监视器和模拟 RGB 监视器	○	–	–	○
		–	○	○	–

注意

- 有三个监视器接口被标记为 "1"（模拟 RGB∞∴.
- 在监视器与设备正面和背面的模拟 RGB 监视器接口 1 连接时，请勿打开设备。
- 当仅使用一台模拟 RGB 监视器操作设备时，请勿在设备打开时将监视器连接到位于设备正面的模拟 RGB 监视器接口 1 上。
- 当连接两台模拟 RGB 监视器时，请勿使用 HDMI 监视器接口。
- 使用 HDMI 监视器时，请务必连接 HDMI 监视器，并在打开设备前先将其打开。
- 使用位于设备正面的模拟 RGB 监视器接口 1 时，请遵守以下限制。
  - 请勿将监视器连接到 HDMI 监视器接口 1。
  - 设备打开时，请勿同时将监视器连接到设备正面和背面的模拟 RGB 监视器接口 1 上。如果两个接口都被使用，设备会无法识别监视器。
- 如果通过监视器开关来连接监视器，则可能无法一直显示图像。我们建议将监视器直接连接到设备。

连接键盘、鼠标和远程控制设备

将设备连接到设备前后两侧的 USB 接口。

示例：连接到设备后侧的 USB 接口时
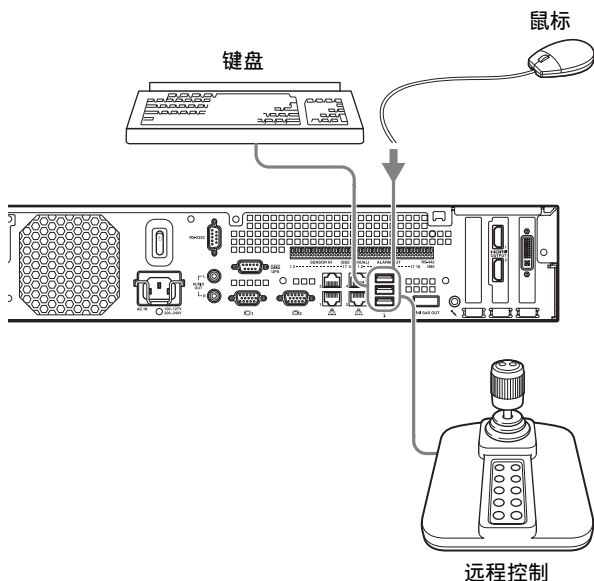
注意

- 本设备支持 CH Products 的 IP 桌面 USB 控制器。不支持其他远程控制器。
- 使用 USB 设备前，请务必阅读 "使用方面的注意事项" 章节中的 "使用 USB 设备的注意事项"（第 292 页）。

连接电源线

将电源线连接到电源接口。
安装保险夹以防电源线断开连接。
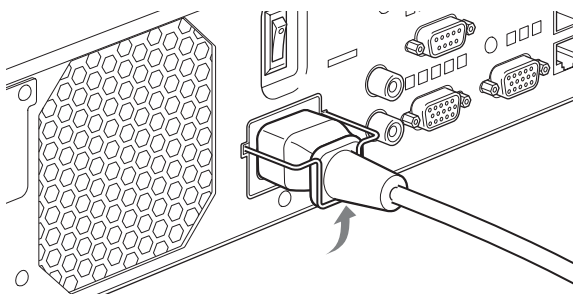
警告

- 安装之前，请参阅 "安装方面的重要说明"（第 291 页）。将本设备与多个 NSR 设备或一个可选的 NSRE-S200 一起使用时，请确保提供充足的电源。
- 有关 NSR-1200/1100/1050H 和 NSRE-S200 的电流消耗和浪涌电流的详细信息，请参阅 "安装参考数据"（第 298 页）。

连接网络

按以下图示连接网络。

连接远程客户端时，将 LAN 接口连接到网络，该网络与用作远程客户端的 Windows PC 使用的网络相同。

RealShot
Manager
Advanced
客户端软件

网络交换机

Windows PC

LAN 接口 2

LAN 接口 1

LAN 接口 3 和 4
（以备将来进行扩展）

网络交换机

网络摄像头
将 LAN 接口 1 连接到与网络
摄像头相同的网络。
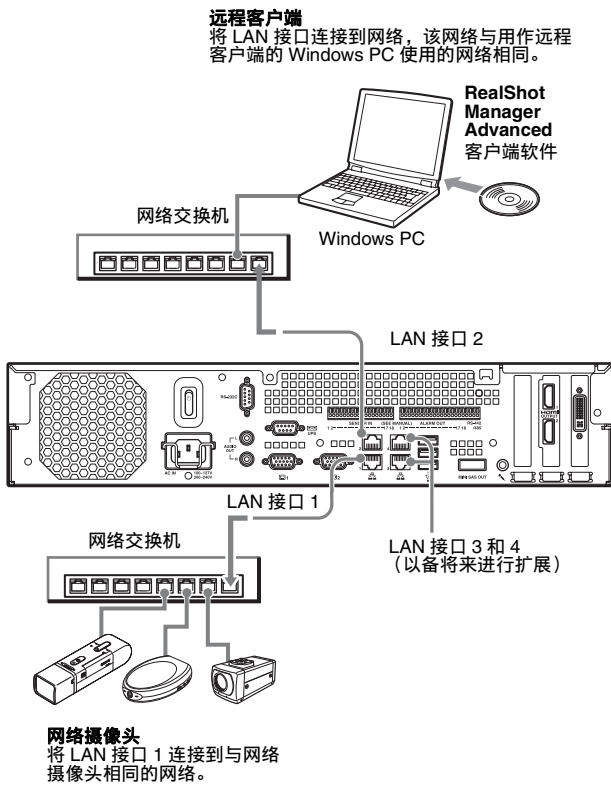
连接远程客户端

需要远程客户端时，请使用本设备随附的 RealShot Manager Advanced 客户端软件。

- 使用本设备随附的 RealShot Manager Advanced 版本。有关如何下载 RealShot Manager Advanced 安装程序的详细信息，请参阅 "下载 NSR 上保存的文件"（第 294 页）。您也可从以下 URL 下载最新版本 RealShot Manager Advanced 的安装程序。
http://www.sony.co.jp/net/Products/RSMAd/license_form.html
有关安装和连接 NSR 的详细信息，请参阅 RealShot Manager Advanced 安装指南 (PDF)。
- 请在 Windows 计算机上操作 RealShot Manager Advanced 客户端软件。有关推荐系统规格的详细信息，请参阅包含在 RealShot Manager Advanced 客户端软件的安装文件中的版本说明。
- 将 RealShot Manager Advanced 用作 NSR 的远程控制器时，请在 RealShot Manager Advanced 安装过程中选择 [Client]。
- 要连接到用户区域网络时，请使用 LAN 接口 2。
- 有关在使用 RealShot Manager Advanced 客户端软件时 NSR 设置的详细信息，请参阅 "使用 RealShot Manager Advanced 客户端软件时的配置"（第 313 页）。

LAN 接口 3 和 4 （以备将来进行扩展）

为了网络冗余， LAN 接口 3 和 4 是共用通道的，仅可为这两个接口分配一个 IP 地址。请确保将 LAN 接口 3 和 4 连接到同一网络交换机。

LAN 接口 3 和 4 都连接到网络交换机时，其中只能有一个可启用数据通信。
设备启动时即确定要激活的网络，用户无法指定使用哪个网络。如果活动的网络出现故障并且数据通信被禁用，则会使用另一个网络恢复数据通信。

> **注意**
>
> - 本设备的默认 IP 地址如下。
>   - LAN 接口 1：192.168.0.1
>   - LAN 接口 2：192.168.1.1
>   - LAN 接口 3：192.168.2.1
>   - LAN 接口 4：192.168.2.1
> - 如果要更改默认 IP 地址，请参阅用户指南 (PDF)。

连接模拟摄像头

请使用随附的模拟摄像头输入电缆连接模拟摄像头。
要控制摄像头的摇摄、倾斜和变焦操作，请将摄像头控制电缆连接到 RS-232C 接口或 RS-422/485 接口 （报警器输出接口上最右边的四个引脚）。（每次只能使用其中一个接口 （RS-232C、 RS-422、 RS-485）。）
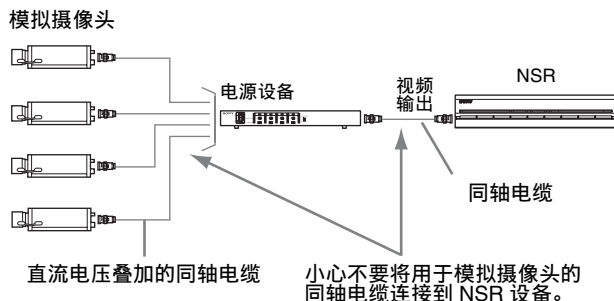

模拟摄像头电缆输入接口

模拟摄像头输入电缆

视频输入接口
（黑色）

模拟摄像头

音频设备

音频输入接口
（白色）

连接示例

模拟摄像头
PTZ（RS-485 控件）

模拟摄像头
PTZ（RS-422 控件）
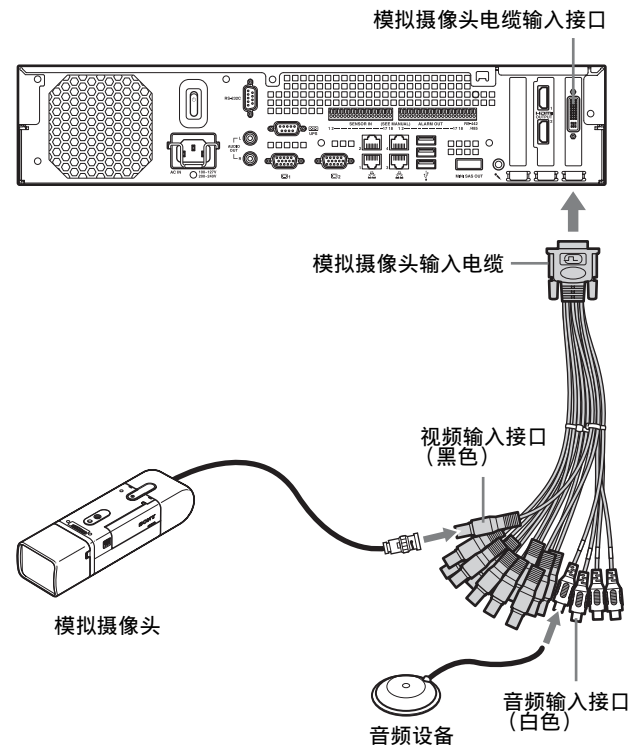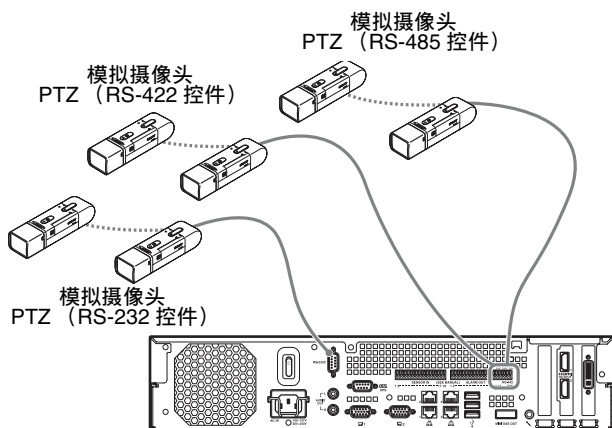
模拟摄像头
PTZ（RS-232 控件）

如果使用在视频同轴电缆上加直流电压的摄像头和电源设备，则在对同轴电缆布线时请特别小心。如果将加有直流电压的摄像头电缆连接到 NSR，则可能产生故障。

模拟摄像头

电源设备

视频
输出

NSR

同轴电缆

直流电压叠加的同轴电缆

小心不要将用于模拟摄像头的
同轴电缆连接到 NSR 设备。

注意

- NSR-1050H 的标准配置里有模拟摄像头电缆输入接口，但是 NSR-1200/1100 需要 NSBK-A16（可选）扩展。
- 使用摇摄、倾斜和变焦操作时，用户必须使用程式开关或菜单为每个模拟摄像头配置一个唯一的控制编号。有关配置控制编号的详细信息，请参阅模拟摄像头的操作说明。
- 有关 RS-422/485 接口引脚分配的详细信息，请参参阅 "I/O 端口的插针分配"（第 318 页）。

连接 NSRE-S200

使用可选 NSRE-S200 随附的微型 SAS 电缆将 NSR-1200/1100/1050H 连接到 NSRE-S200，如下所示。
最多可将七台 NSRE-S200 设备连接到 NSR-1200/1100/1050H。
有关连接配置的详细信息，请参阅 "NSRE-S200 连接示例"（第 315 页）。

注意

请确保在接通电源之前连接 NSR-1200/1100/1050H 和 NSRE-S200。

将 NSR-1200/1100/1050H 连接到 NSRE-S200

微型 SAS 电缆

微型 SAS 输出
接口

微型 SAS 输入
接口

连接两台 NSRE-S200 设备

微型 SAS 输出
接口

微型 SAS 电缆
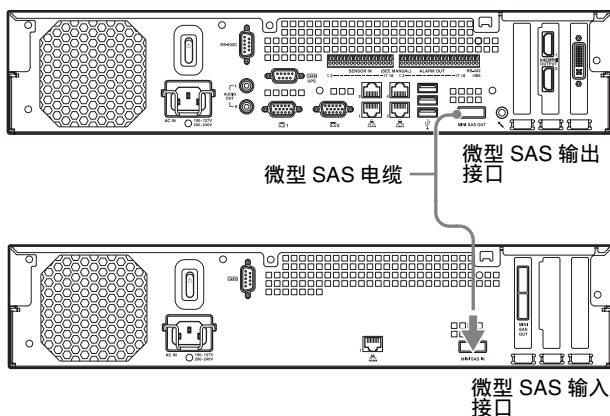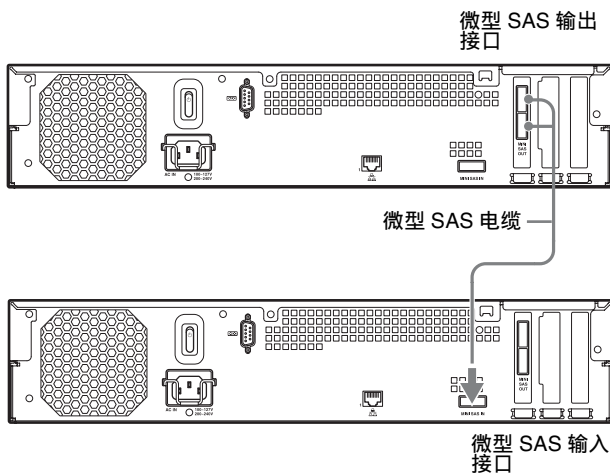
微型 SAS 输入
接口

注意

NSRE-S200 的上下微型 SAS 输出接口功能是相同的。

连接其他设备

连接传感器输入和报警器输出

请将电线连接到传感器输入接口和报警器输出接口。
有关详细信息，请参阅 "I/O 端口"（第 318 页）。

连接不间断电源 （UPS）

1 将 UPS 连接到电源插座。

2 请使用随附的电源线将 NSR 连接到 UPS。

3 用专用的串行电缆将与 NSR 连接的 UPS 连接到 NSR 后侧的串行接口。

电源线　串行电缆　连接到电源

UPS
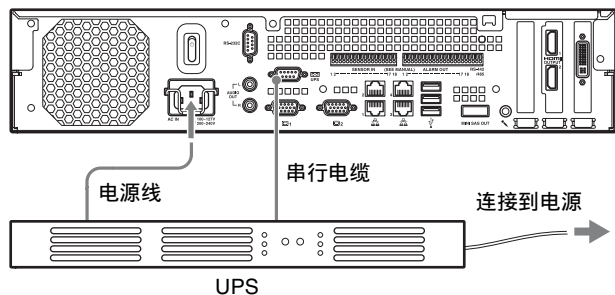
连接音频输出设备

将音频输出设备连接到音频输出接口 （L 和 R）。

音频电缆 （L 和 R）
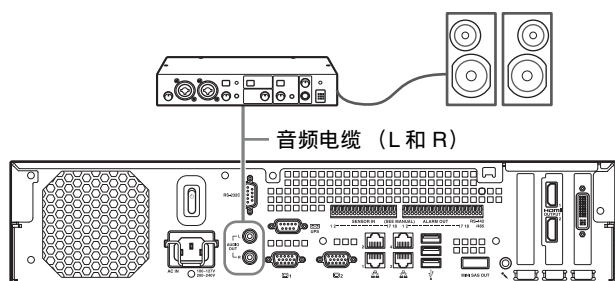
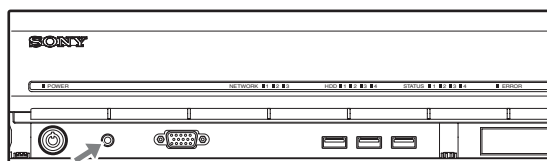# 第 3 步：设置

本部分提供有关如何打开设备的信息，并对如何注册摄像头和其他设备进行概要说明。

打开设备

按下设备前侧或后侧的电源开关可打开设备。当连接可选的 NSRE-S200 时，请等到 NSRE-S200 打开后再打开本设备。有关浪涌电流的详细信息，请参阅 "安装参考数据"（第 298 页）。
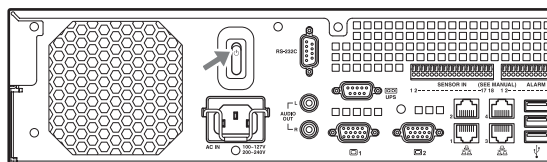
⚠️警告

配置系统 （包含多台 NSR 设备或一台 NSRE-S200 设备）电源连接时，应考虑到涌入电流。

前侧电源开关

后侧电源开关

设备开启后，位于前面板上的电源 LED 亮起绿色。

首次打开设备时，安装向导会自动启动。
继续执行下一部分 "根据安装向导配置初始设置"。

注意

- 打开设备后，风扇可能会持续 2 秒发出较大噪音。这不属于故障。
- 如果通过系统操作将设备关闭，可按下前面板上的电源按钮或后面板上的电源开关打开设备。
- 如果之前发生强制关机，则需要较长时间才可启动设备。

关闭设备

登录 NSR 后，单击 "主"屏幕上方的 ⏻／👤 ，在出现的菜单中选择 [关机]。

注意

正常情况下，设备将于几分钟后关闭。如果设备在几分钟后仍未关闭，可通过按住设备后面板上的电源开关 （⏻ 位置处）至少 5 秒钟来强行关闭设备。

根据安装向导配置初始设置
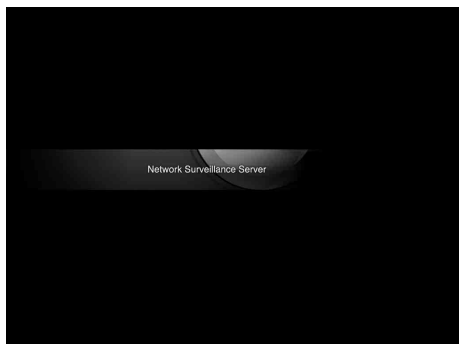
本部分说明安装向导的一般流程。有关设置的详细信息，请参阅用户指南 (PDF) 的 "更改系统设置"。

首次打开设备时，安装向导会自动启动。然后，您可以通过访问登录屏幕、管理菜单以及设置菜单配置相同的设置。
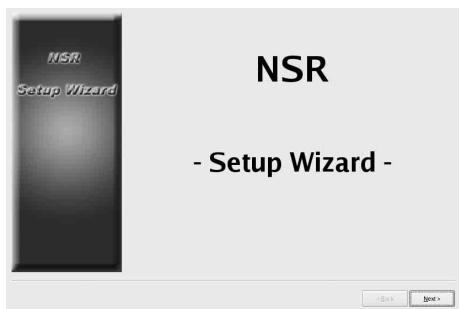有关详细信息，请参阅 "从登录屏幕访问设置菜单"（第 311 页）。
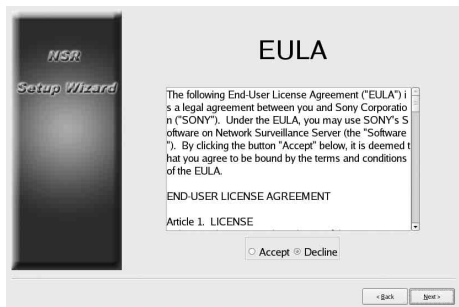
注意

本手册中，出现在屏幕上的某些显示为英文的项目以简体中文写入。

打开设备时，安装向导会在出现以下屏幕后启动。

↓

单击 [Next]。

↓

仔细阅读用户许可协议并单击 [Accept]，然后单击 [Next]。

↓

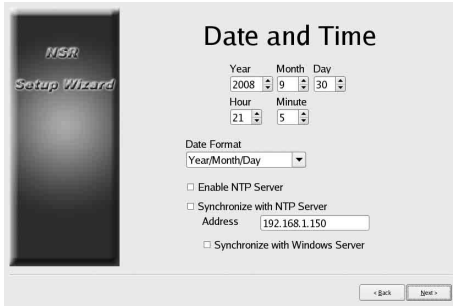选择显示语言，然后单击 [Next]。

↓

选择键盘语言，然后单击 [下一步]。
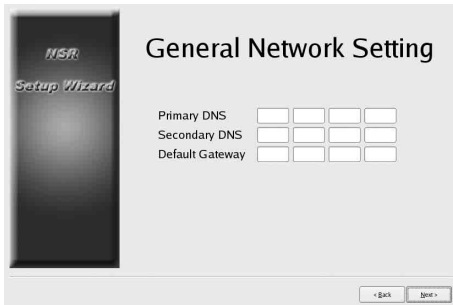

↓

选择时区，然后单击 [下一步]。
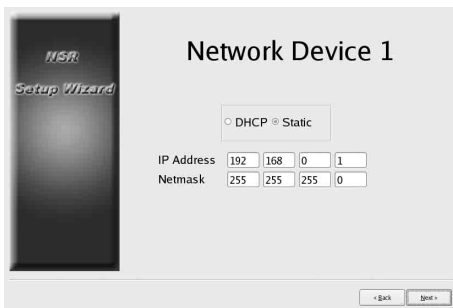

↓

设置日期和时间，然后单击 [下一步]。
- 选中 [Enable NTP Server] 复选框后，设备将充当 NTP 服务器，以同步日期和时间。
- 选中 [Synchronize with NTP Server] 复选框后，即可同步不同 NTP 服务器的日期和时间。
- 如果日期和时间无法与用作 NTP 服务器的 Windows 服务器同步，可选中 [Synchronize with Windows Server] 复选框，强行与 Windows NTP 服务器同步。

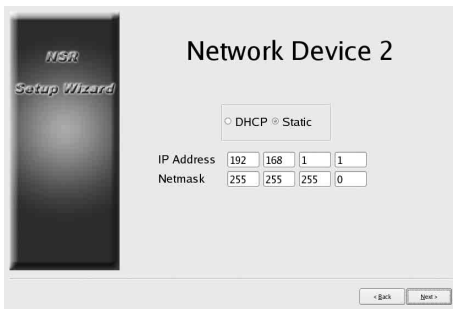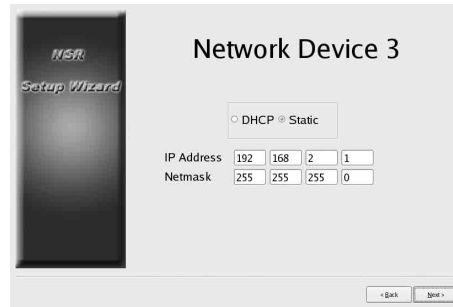↓

设置每个服务器的 IP 地址，然后单击 [下一步]。

↓

设置 LAN 接口 1 的 IP 地址，然后单击 [下一步]。

↓

设置 LAN 接口 2 的 IP 地址，然后单击 [下一步]。

↓

设置 LAN 接口 3 的 IP 地址，然后单击 [下一步]。

↓

配置监视器 1 的设置，然后单击 [下一步]。
- 如果选择 [Auto]，系统会自动检测和配置所连接监视器的类型及其分辨率。
  有关所支持分辨率的详细信息，请参阅 "系统要求"（第 293 页）。
- 将两个监视器连接至设备时，请选中 [Dual Head] 复选框。

↓
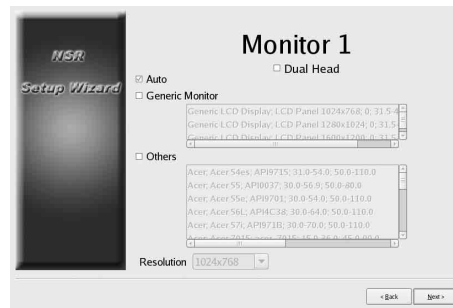
如果连接第二个监视器，请为监视器 2 配置设置。配置好第二个监视器的设置后，请在保持其处于连接状态时重新启动设备

↓

选择要使用的音频输出接口，然后单击 [下一步]。

↓
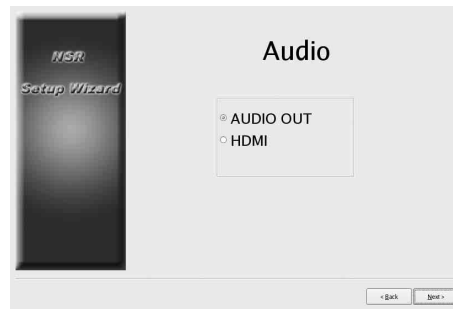
配置内部硬盘驱动器的分区，然后单击 [下一步]。
指定分区数，然后为每个分区指定所占总容量的百分比。

↓
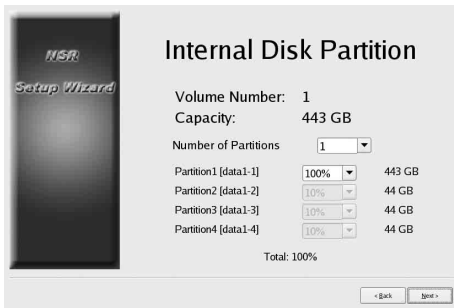
设置服务器名称，然后单击 [下一步]。

↓
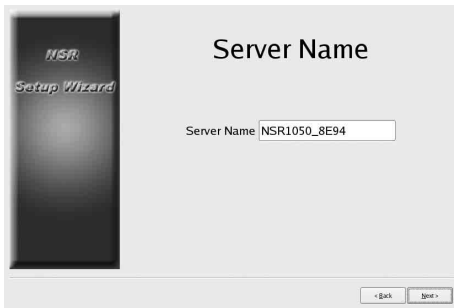
配置模拟摄像头连接设置，然后单击 [下一步]。
选择将连接到受控摄像头的串行接口标准，并配置波特率和校验位等设置。
（仅当连接 NSR-1050H 或 NSBK-A16 （可选）时才会显示此屏幕。）

↓
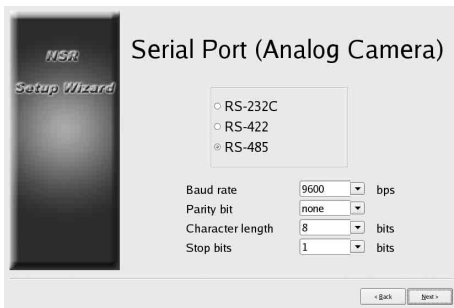
选择待连接模拟摄像头的视频格式，然后单击 [下一步]。
（仅当连接 NSR-1050H 或 NSBK-A16 （可选）时才会显示此屏幕。）

↓
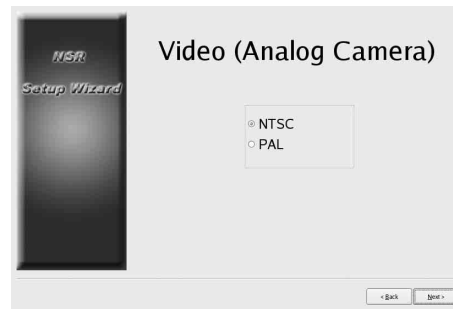
检查各项配置，然后单击 [下一步]。

↓

当屏幕出现重新启动确认信息时，单击 [完成]。

↓
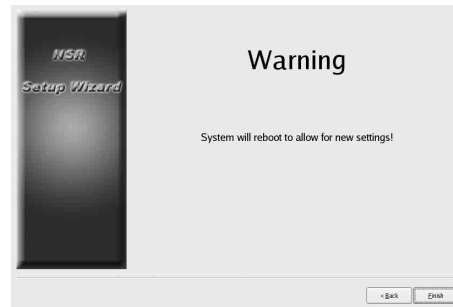
设备随即重新启动。

↓

出现登录屏幕。
继续执行下一部分 "登录。"

从登录屏幕访问设置菜单

① 单击 [管理菜单]。

↓

② 单击 [设置菜单]。
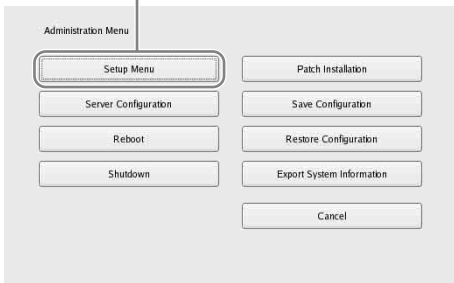
登录

输入用户名和密码，然后单击 [登录]。
默认用户名： admin
默认密码： admin

登录成功后，会出现 "自动注册摄像头" 对话框。
继续执行下一部分 "执行基本配置。"

执行基本配置

本部分描述如何注册和配置自动检测到的设备的报
警记录。有关如何一次性注册所有自动检测到的设
备的详细信息，请参阅 "初次操作指南"（独立文
档）。

注册摄像头

选择 [打开多个摄像头注册窗口]，然后单击 [确
定]。

↓

自动检测到位于同一网络段的设备。

选中要注册摄像头的复选框，然后单击 [注册]。
有关设置的详细信息，请参阅用户指南 (PDF) 的
"注册设备"。

↓
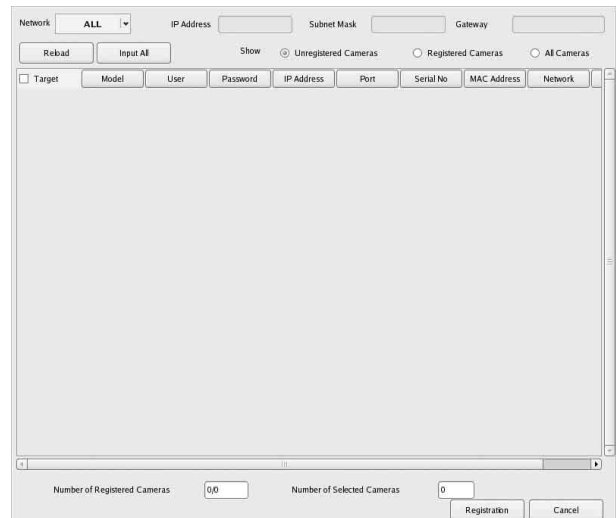
摄像头已注册。

↓
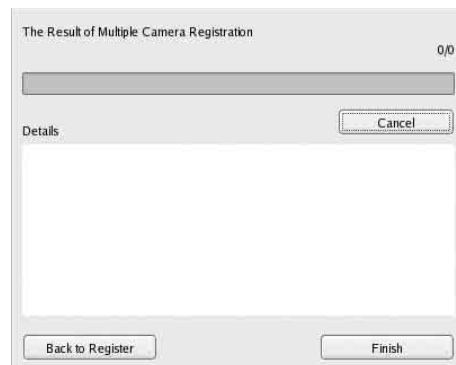
配置报警记录

选择 [自动报警记录]，然后单击 [下一步]。

↓
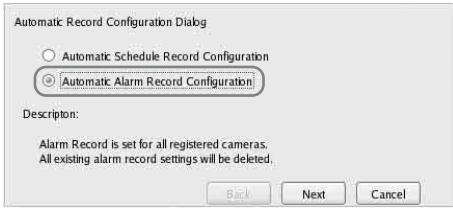
此时将出现消息。
单击 [下一步]。

↓
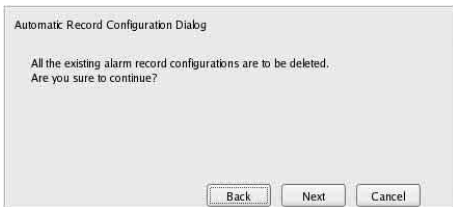
检查各项配置，然后单击 [完成]。

↓

报警记录启动。
配置完成后会出现 "主" 屏幕。
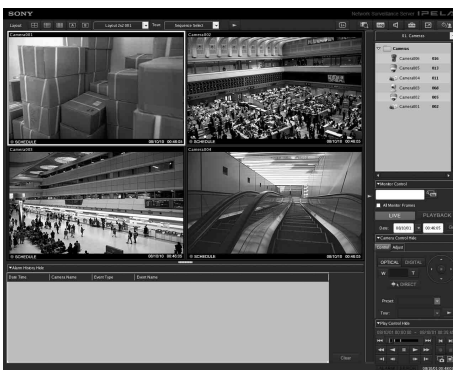
执行基本配置后，每种设置的值将如下所示。

设置	排定的记录	报警记录
图像尺寸	摄像头支持最大图像尺寸。	
编解码器	支持最大图像尺寸的编解码器。（如果 JPEG 和 MPEG4 均支持，则选择 MPEG4。）	
帧率	JPEG 　取决于所记录数据的存储时间。 MPEG4： 　取决于比特率。	JPEG：10 fps MPEG4：10 fps
质量	50% 级别 3（具有 5 级设置的摄像头） 级别 5（具有 10 级设置的摄像头）	80% 级别 5（具有 5 级设置的摄像头） 级别 8（具有 10 级设置的摄像头）
比特率	取决于所记录数据的存储时间。	MPEG4：1.5 Mbps
记录触发器	–	VMD（摄像头） VMD（记录器） 　JPEG：标准模式 　MPEG4：高性能模式
数据存储位置	不改变现有设置。 [1]	不改变现有设置。 [1]
音频	禁用	禁用
数据改写	不改变现有设置。	不改变现有设置。
清理	删除超过存储时间的数据。	不改变现有设置。

[1] 如果用户尚未配置摄像头的存储位置设置，则系统会根据设备内部硬盘上第一个分区的容量来计算其它存储位置设置。如果用户已配置存储位置设置，则系统会使用每个存储位置所在分区的容量来计算其它存储位置设置。

警告

- 如果用户在执行 "自动记录" 时，计划记录和报警记录的设置已经存在，则自动配置会替换之前的设置。
- 如果摄像头存储位置被故意改变，则可以再次执行基本配置来重新计算其它设置。系统将不会自动重新计算这些设置。

要求单独配置的设置

在以下情况中，要求进行详细配置。

存储位置设置

在基本配置设置时，数据存储在设备内部硬盘的第一个分区中。
有关向可选 NSRE-S200 设备或其它分区记录数据的详细信息，请参阅 "用户指南"（PDF）。

构建包括多个 NSR 设备或 RealShot Manager 高级服务器的系统时

配置多个服务器时，需要进行单独配置。有关详细信息，请参阅用户指南 (PDF)。

模拟摄像头的摇摄、倾斜和对焦设置

从设备配置的 [控制] 选项卡中，对模拟摄像头的摇摄、倾斜和对焦设置进行如下配置。
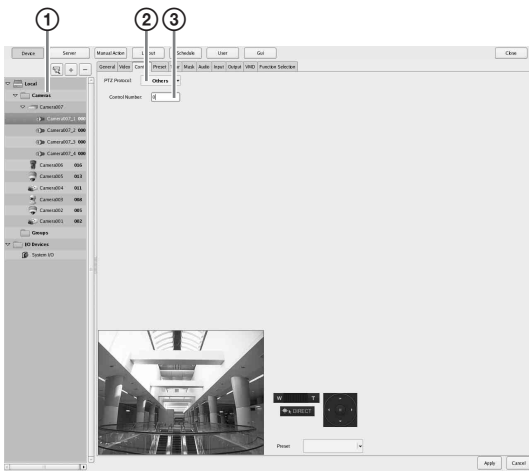
① 选择模拟摄像头。
② 根据模拟摄像头的设置选择协议。
③ 输入所选模拟摄像头上配置的控制编号。

注意

要配置这些设置，您必须事先在安装向导的 "Serial Port" 设置中配置传输模式。

摄像头的音频设置

在基本配置设置时，音频处于禁用状态。有关启用音频的详细信息，请参阅用户指南 (PDF)。

使用 RealShot Manager Advanced 客户端软件时的配置

在将用作主服务器的 NSR 设备上配置以下设置。
有关设置的详细信息，请参阅用户指南 (PDF)。

1 在管理菜单的服务器配置屏幕中配置以下设置。
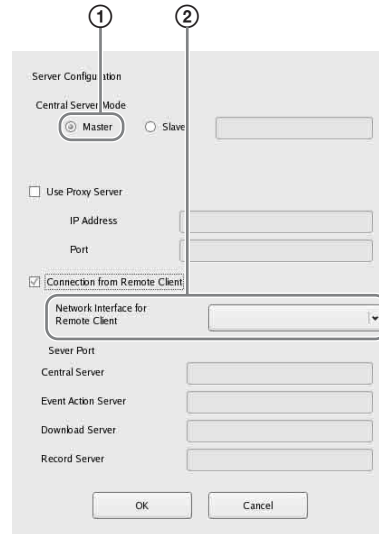
① 在 [中央服务器模式] 下选择 [主服务器]。
② 在[从远程客户端连接]下的[用于远程客户端连接的网络接口] 中选择用于连接的网络接口。

2 在主服务器中创建用户。
在用户配置屏幕中单击 + （添加），创建一个用户。
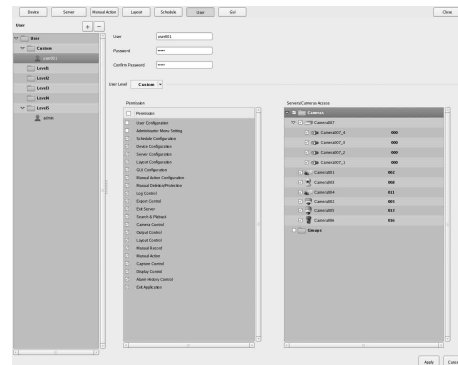
第 4 步： 检查操作

完成基本配置后，请确保摄像头图像显示在 "主"屏幕中并检查其他类似操作。

① 更改版式并显示已注册摄像头中的图像。
  从摄像头面板中将一个摄像头拖放至监视器框，以显示该摄像头中的图像。
② 单击监视器框将其激活 （浅蓝色框），并通过摄像头控制面板的 [控制] 选项卡控制摇摄、倾斜和对焦。
③ 当有对象从摄像头前方通过时，确认发出报警。
  如果已通过基本配置对报警记录进行了配置，则监视器框周围会出现一个红框，且屏幕底部的 "报警历史"中会显示每个报警的记录。
④ 有关操作各项功能的详细信息，请参阅监视窗口操作指南 （独立文档）。
⑤ 单击 [PLAYBACK] 回放记录。
  单击 [PLAYBACK] 时，将回放 （快速回放）之前配置时间的图像。
  输入日期和时间并单击 [GO] 后，将回放记录的图像。
⑥ 单击屏幕右下方的 [错误] 指示灯，确认是否发生错误。
  如果在单击 [错误] 指示灯后出现系统日志，则可以通过查看日志来确认是否出现问题。

有关 "主"屏幕操作的详细信息，请参阅监视窗口操作指南 （独立文档）或用户指南 (PDF)。

警告

将 USB 设备连接至本设备时， "主"屏幕右下方的 [错误] 指示灯可能会亮起。表示设备可能不支持 USB 设备。有关详细信息，请参阅 "使用方面的注意事项"（第 291 页）或 " 故障排除 " 章节中的 "连接至 USB 接口的外部设备不工作。"（第 319 页）。

使用 RealShot Manager Advanced 作为远程客户端时

执行以下操作以确认操作。

1 登录 RealShot Manager Advanced。
  • 请在登录时指定服务器。为服务器 IP 地址指定端口 "8082"。
  • 在[用户名]和[密码]中输入在服务器配置屏幕 (page 313) 中配置的用户名和密码。

2 在 RealShot Manager Advanced 的主屏幕中，从设备所连接摄像头中的图像分配到监视器框。分配摄像头有两种方法。
  • 将连接到设备的摄像头从摄像头面板拖放至监视器框。
  • 单击监视器框将其选中，然后在摄像头面板中双击摄像头。

3 确认监视器框中显示了在第 2 步中选定摄像头的图像。

连接示例

监视器连接示例

本设备支持与多个监视器连接。请参阅以下连接示例。

> **注意**
>
> 您可以选择在安装向导或设置菜单的音频屏幕中输出 RCA 音频或 HDMI 音频。

示例 1) 连接两个 HDMI 监视器时
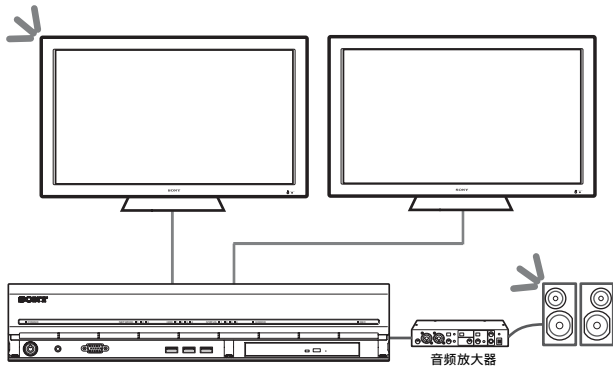
：音频输出位置。

> **注意**
>
> 请务必连接 HDMI 监视器，并在打开设备前先打开监视器。

示例 2) 连接两个模拟 RGB 监视器时
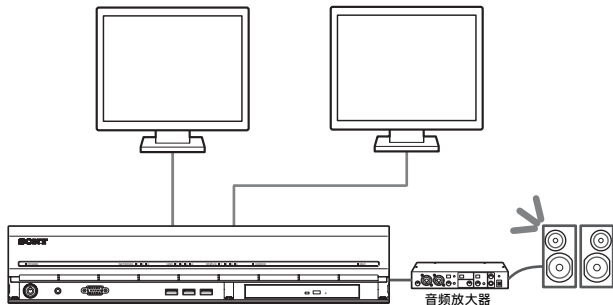
：音频输出位置。

> **注意**
>
> - 请勿将监视器连接至 HDMI 监视器接口 1 和 2。
> - 请勿在打开设备后将监视器连接至设备正面的监视器接口 1。

示例 3) 连接 HDMI 监视器和模拟 RGB 监视器（HDMI 监视器用于操作）时

音频放大器
（连接至音频
输出接口
(L/R)）
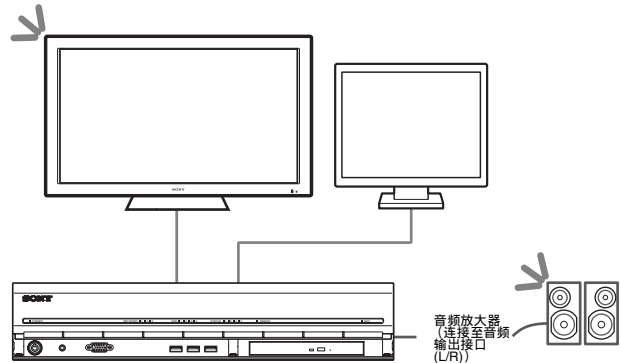
：音频输出位置。

> **注意**
>
> - 请勿将监视器连接至 HDMI 监视器接口 2。
> - 使用 HDMI 监视器时，请务必连接 HDMI 监视器，并在打开设备前先将其打开。

示例 4) 连接 HDMI 监视器和模拟 RGB 监视器（模拟 RGB 监视器用于操作）时
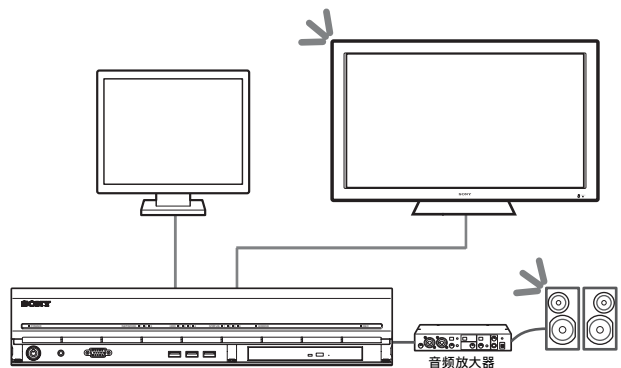
：音频输出位置。

> **注意**
>
> - 请勿将监视器连接至 HDMI 监视器接口 1。
> - 请勿在打开设备后将监视器连接至设备正面的监视器接口 1。

NSRE-S200 连接示例

在以下树形配置中，最多可将七个可选的 NSRE-S200 设备连接到 NSR-1200/1100/1050H。

NSRE-S200 随附了用于连接的微型 SAS 电缆。

按以下顺序连接 NSRE-S200 扩展。
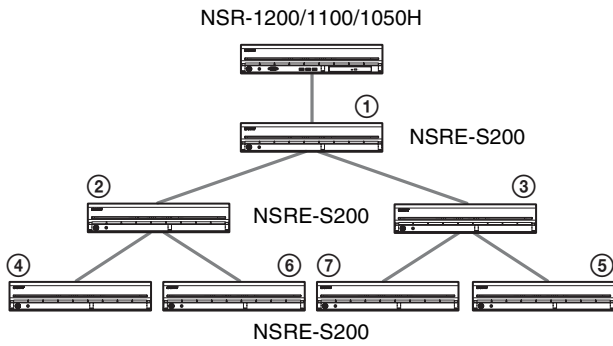
其他信息

状态 LED

如果设备发生错误，设备前面板上的错误 LED 会根据错误状态而闪烁或亮起，而且状态 LED 也会亮起。

STATUS ▮1 ▮2 ▮3 ▮4　　▮ ERROR

STATUS LED 指示以下错误状况。

启动阶段显示的错误代码
（启动阶段出现错误时，错误 LED 闪烁。）

错误代码	状态 LED	错误 LED	可能的原因
1	1 2 3 4	闪烁	电源故障
2	1 2 3 4	闪烁	CPU 风扇故障
3	1 2 3 4	闪烁	内存模块故障
4	1 2 3 4	闪烁	CMOS 电池故障
5	1 2 3 4	闪烁	视频随机存取存储器 (RAM) 或控制器故障
6	1 2 3 4	闪烁	硬盘控制器出现故障
7	1 2 3 4	闪烁	未找到可启动设备
8	1 2 3 4	闪烁	未找到可启动操作系统
9	1 2 3 4	闪烁	一个或多个硬盘出现故障
A	1 2 3 4	闪烁	RAID OS 卷出现故障
B	1 2 3 4	闪烁	无法启动 X11 服务器
C	1 2 3 4	闪烁	无法启动应用程序
D	1 2 3 4	闪烁	保留以备后用
E	1 2 3 4	闪烁	保留以备后用
F	1 2 3 4	闪烁	RAID 数据卷出现故障

操作阶段显示的错误代码
（操作阶段出现错误时，错误 LED 亮起。）

错误代码	状态 LED	错误 LED	可能的原因
1	1 2 3 4	打开	温度过高
2	1 2 3 4	打开	CPU 风扇故障
3	1 2 3 4	打开	电源风扇故障
4	1 2 3 4	打开	电源故障
5	1 2 3 4	打开	硬盘风扇 1 故障
6	1 2 3 4	打开	硬盘风扇 2 故障
7	1 2 3 4	打开	硬盘驱动器受损
8	1 2 3 4	打开	保留以备后用
9	1 2 3 4	打开	保留以备后用
A	1 2 3 4	打开	保留以备后用
B	1 2 3 4	打开	操作系统出错
C	1 2 3 4	打开	应用程序运行失败
D	1 2 3 4	打开	"主"屏幕中的 [错误] 指示灯亮起
E	1 2 3 4	打开	RAID 数据卷出现故障
F	1 2 3 4	打开	RAID 数据量正在重组

注意

▮表示状态 LED 或错误 LED 亮起。

I/O 端口

I/O 端口的插针分配

传感器输入

插针编号	传感器输入
1	3.3 v
2	IN_8 -
3	IN_8 +
4	IN_7 -
5	IN_7 +
6	IN_6 -
7	IN_6 +
8	IN_5 -
9	IN_5 +
10	IN_4 -
11	IN_4 +
12	IN_3 -
13	IN_3 +
14	IN_2 -
15	IN_2 +
16	IN_1 -
17	IN_1 +
18	GND

Alarm Out

插针编号	警报输出
1	GND
2	OUT_8 -
3	OUT_8 +
4	OUT_7 -
5	OUT_7 +
6	OUT_6 -
7	OUT_6 +
8	OUT_5 -
9	OUT_5 +
10	OUT_4 -
11	OUT_4 +
12	OUT_3 -
13	OUT_3 +
14	OUT_2 -
15	OUT_2 +
16	OUT_1 -
17	OUT_1 +
18	3.3 v

RS-422/485

插针编号	RS-422	RS-485
19	TX-	TX-
20	TX+	TX+
21	RX-	
22	RX+	

使用 I/O 插孔

将小一字螺丝刀插入要连接电线的孔的上部或下部插槽中（AWG 编号：28 至 18）。按住螺丝刀并插入电线，然后松开螺丝刀。

注意

将螺丝刀插入插槽时请勿用力过大。否则，可能会造成损坏。
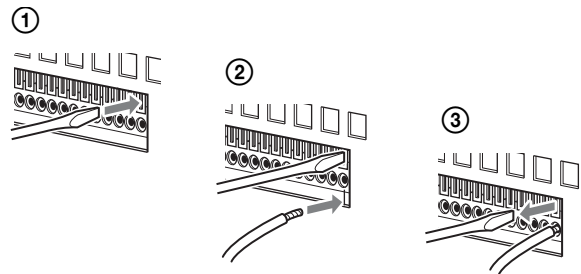
重复此步骤连接所有需要的电线。

传感器输入线路图 1
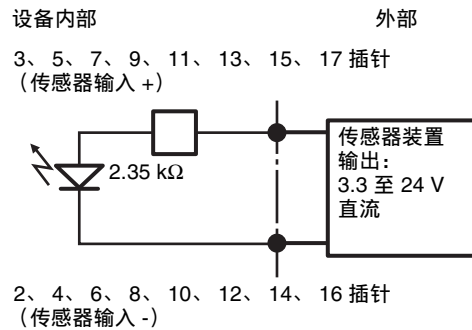
传感器输入线路图 2
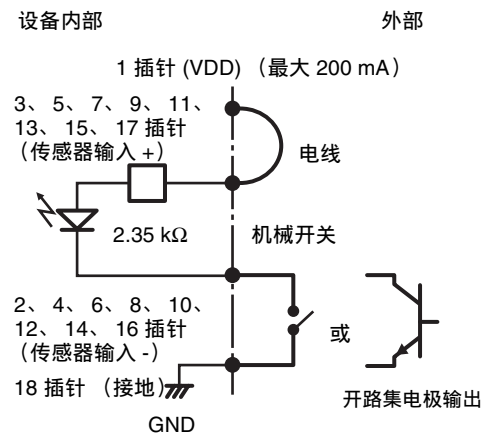
使用线路图 2 时，NSR 未被电绝缘，因此务必建立不会产生噪音、过电压或过电流的外部电路。

警报输出线路图

设备内部　　　　　　　　　　　外部

3、5、7、9、11、
13、15、17 插针　　　　　　　5 V
（警报输入 +）

磁性继电器 24 V
AC/24 V DC、1 A
或更小　　　　　　　　　　电路示例

2、4、6、8、
10、12、14、16
插针
（警报输入 -）

GND
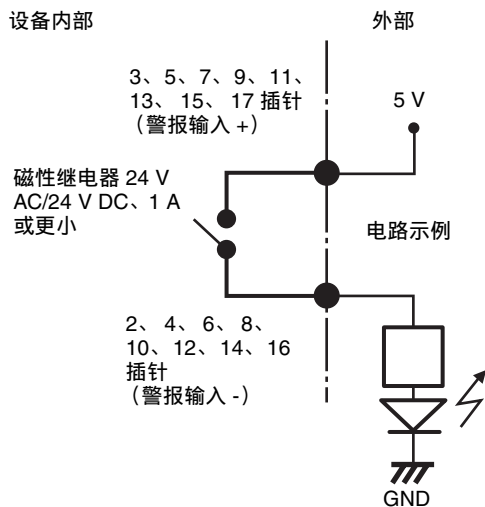
故障排除

请在联系您的零售商或 Sony 支持中心前先检查以下项目。如果问题仍然存在，请联系他们。

NSR 不工作。

- 检查电源是否打开。
- 检查电源电缆是否连接正确。
- 确保电源插座已通电。将插头插入另一个设备进行测试。
- 确认未访问硬盘驱动器 （记录器正面的 HDD LED 未闪烁），然后按住设备后面板上的电源开关约 10 秒钟以强行将其关闭。重新启动 NSR。
- 在启动过程中，NSR 会对文件系统进行检查。检查所需时间视 NSR 上的数据量而定 （在某些极端情况下，检查可能会耗时长达 2 小时）。文件系统检查期间，记录器正面的 HDD LED 会闪烁。
- 如果 NSR 未正确启动，可能会出现以下屏幕。

```
NSR DOM Menu

1. HDD Restore
2. DOM Restore
3. Software Restore
4. Reboot the system
5. Shutdown the system

Enter your choice :
```
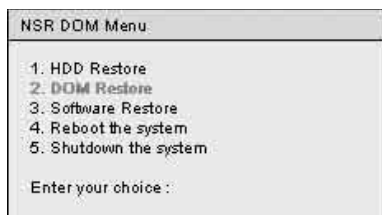
在这种情况下，请执行以下操作。
1. 选择 "5. Shutdown the system，"，然后按 Enter 键。
2. 请参阅 "无法访问硬盘驱动器。"，检查是否正确连接 NSR 硬盘。
3. 重新启动 NSR，检查其是否启动。

监视器仍无反应。

- 检查 NSR 是否已启动。
- 检查电源线是否连接正确。
- 检查监视器电缆是否连接正确。确认监视器已连接至监视器接口 1。
- 如果监视器分辨率配置错误，当监视器分辨率远低于监视器输出的分辨率时，可能出现 "Out of range" 消息。根据需要按下 CTRL+ALT+MINUS SIGN 多次，以降低输出视频的分辨率。当输出图像分辨率达到监视器分辨率时，图像将出现。接着，请重新配置监视器分辨率。有关详细信息，请参阅用户指南 (PDF)。

连接至 HDMI 接口的监视器显示不正确。

- 如果您切换HDMI监视器的输入或重新连接电缆，在某些情况下，图像可能显示不正确。此时，请尝试以下操作。
  1. 切换监视器的输入
  2. 重新启动监视器。

如果执行上述操作后问题仍然存在，请断开 HDMI 电缆并继续使用模拟 RGB 监视器。当可以停止操作时，请重新启动设备并尝试重新连接 HDMI 监视器。

新的外部硬件无法正常工作。

- 请确保新的外部设备的电缆已连接牢固，引脚没有弯曲。

连接至 USB 接口的外部设备不工作。

- 将 USB 设备连接至本设备时，"主"屏幕右下方的 [错误] 指示灯可能会亮起。执行以下操作以确认设备是否支持 USB 设备。
  1. 单击 [错误] 指示灯。
     出现系统日志。
  2. 确认系统日志中是否出现 "不支持的 USB 设备"错误。
     如果出现 "不支持的 USB 设备"，则表示设备不支持 USB 设备。
- 本设备支持标准的 USB 2.0 大容量存储设备。但是，向设备写入数据时可能出错，这取决于 USB2.0 大容量存储设备的类型。如果写入数据时出错，则请换用不同类型的 USB 存储设备。
- 为了确保正确操作 USB 设备，请勿通过 USB 集线器连接设备。请将设备直接连接到本设备上的 USB 接口。如果通过 USB 集线器、USB 开关或延长电缆连接设备，则无法保证能够正常操作。
- 请参阅 USB 设备随附的文档。

系统无法读取 DVD/CD 信息。

- 请确保使用了正确的光盘。
- 确保将 DVD/CD 正确插入驱动器。
- 检查 DVD/CD 是否干净且没有刮伤。

DVD/CD 托盘无法弹出。

- 确保 NSR 已打开。
- 将笔尖或回形针尖端缓慢插入 DVD/CD 驱动器上的弹出孔中。将托盘从驱动器中拉出，然后取出光盘。

NETWORK LED 未亮起。

- 检查电缆和网络设备是否正确连接。

无法访问硬盘驱动器。

- 确保已正确插入硬盘驱动器。
- 检查系统前面板上的 HDD LED。通过读取驱动器 LED 来确定出现故障的硬盘驱动器。出现故障的 HDD LED 不会亮起。
- 由于在频繁访问硬盘驱动器时 HDD LED 会快速闪烁，因此在明亮环境中 HDD LED 可能显示未亮起。

无法从远程客户端访问 NSR。

- 确保 NSR 操作正确（硬盘驱动器、网络、软件或其他项目不应有任何异常）。
- 确保设备的中央服务器设置正确。
- 确保RealShot Manager Advanced中设置的用户名、密码和连接端口正确。
- 有关 RealShot Manager Advanced 的详细信息，请参阅用户指南的故障排除部分。

NSR 升温过快

- 确保设备前后及侧面上的通风口没有堵塞，且内部没有堆积灰尘。

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!

规格

NSR-1200/1100/1050H

处理器
CPU NSR-1200：Quad Core Xeon
NSR-1100：Dual Core Xeon
NSR-1050H：Dual Core Xeon

内存
板载闪存 4 GB
内存 NSR-1200：2 GB
NSR-1100：1 GB
NSR-1050H：1 GB

记录设备
内部硬盘驱动器 NSR-1200：2 TB
(SATA-II 500 GB × 4)
NSR-1100：1 TB
(SATA-II 500 GB × 2)
NSR-1050H：500 GB
(SATA-II 500 GB × 1)
硬盘驱动器的容量基于以下方程式得出，约为 1 GB：
$1,000 \times 1,000 \times 1,000 = 1$ 兆字节
DVD/CD 驱动器 （正面）
1 驱动器
兼容媒体：DVD+R、DVD-R、DVD-ROM、CD-R、CD-RW、CD-ROM

外部接口
正面 监视器输出：
模拟 RGB （微型 D-SUB 15 针）(1)
USB：USB 2.0 (3)
后部 监视器输出：
模拟 RGB （微型 D-SUB 15 针）(2)
HDMI (2)
音频输出 (L) (1)
音频输出 (R) (1)
音频输入 (1)
LAN (1000Base-T/100Base-TX/10Base-T) (RJ-45) (4)
USB：USB 2.0 (3)
微型 SAS 输出 （适用于可选的 NSRE-S200 连接，微型 SAS × 4 (SFF-8088)，3.0 Gbit/s）(1)
传感器输入 （兼容 3.3 V 至 24 V DC 设备，光耦合器输入，与主设备绝缘）(8)
报警输出 （最大 24 V DC，1 A，机械继电器输出，与主设备绝缘）(8)
UPS 串行：RS-232C (1)
模拟摄像头控制 （只能与 NSR-1050H 或 NSBK-A16 扩展一同使用）：
RS-232C (1)
RS-422/485 (1)

操作环境
操作温度 5 ℃ 至 40 ℃ （41 ℉ 至 104 ℉）
工作湿度 20% 至 80% （最大湿球温度：30 ℃，不冷凝）
贮藏温度范围 –20 到 +60 ℃ （–4 到 +140 ℉）
贮藏湿度范围 20 到 90% 相对湿度 （最大湿球温度为 40 ℃/104 ℉, 无结露）

电源及杂项
电源 100 至 127 V AC/200 至 240 V AC (50/60 Hz)
功耗 最大 350 W
尺寸 $430 \times 87 \times 417$ （W/H/D，不包括凸出部分）
质量 NSR-1200：约 13.5 kg (29.8 lb.)
NSR-1100：约 12 kg (26.7 lb.)
NSR-1050H：约 11.5 kg (25.4 lb.)

可选配件
NSR-RM1 支架安装套件
NSBK-A16 模拟编码器套件
NSRE-S200 扩展存储单元

设计和规格如有更改，恕不另行通知。

> **注意**
> - 在记录前，请始终进行记录测试，并确认记录是否成功。
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