

Network Camera

Installation Manual

Before operating the unit, please read this manual thoroughly and retain it for future reference.

IPELA

SNC-RH164
SNC-RS86N/RS86P
SNC-RS84N/RS84P

HD

http://www.sony.net/

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Owner’s Record

Refer to these numbers whenever you call upon your Sony dealer regarding this product.

Model No. _____ Serial No. _____

WARNING

To avoid electrical shock, do not open the cabinet. Refer servicing to qualified personnel only.

WARNING

This installation should be made by a qualified service person and should conform to all local codes.

WARNING

A readily accessible disconnect device shall be incorporated in the building installation wiring.

WARNING (for Installers only)

Instructions for installing the equipment.
After the installation, ensure the connection is capable of supporting five times the weight of the equipment downwards.

CAUTION

The rating label is located underneath the Top unit.

CAUTION for LAN port

For safety reasons, do not connect the LAN port to any network devices that might have excessive voltage.

Power Supply

Caution for U.S.A. and Canada

The SNC-RH164/RS86N/RS84N operates on 24 V AC.
In the USA, these products shall be powered by a UL Listed Class 2 Power Supply Only.
In Canada, these products shall be powered by a CSA Certified Class 2 Power Supply Only.

Caution for other countries

The SNC-RH164/RS86P/RS84P operates on 24 V AC.
Use a power supply rated 24 V AC which meets the requirements for SELV (Safety Extra Low Voltage) and complies with Limited Power Source according to IEC 60950-1 second edition.

For customers in the U.S.A. (SNC-RH164/RS86N/RS84N only)

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

You are cautioned that any changes or modifications not expressly approved in this manual could void your authority to operate this equipment.

All interface cables used to connect peripherals must be shielded in order to comply with the limits for a digital device pursuant to Subpart B or Part 15 of FCC Rules.

For customers in Canada (SNC-RH164/RS86N/RS84N only)

This Class A digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe A est conforme à la norme NMB-003 du Canada.

For the customers in Europe

The manufacturer of this product is Sony Corporation, 1-7-1 Konan, Minato-ku, Tokyo, Japan.
The Authorized Representative for EMC and product safety is Sony Deutschland GmbH, Hedelfinger Strasse 61, 70327 Stuttgart, Germany.
For any service or guarantee matters please refer to the addresses given in separate service or guarantee documents.

For the customers in Europe, Australia and New Zealand

WARNING

This is a Class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures.
In the case that interference should occur, consult your nearest authorized Sony service facility.
This apparatus shall not be used in the residential area.

ATTENTION

The electromagnetic fields at specific frequencies may influence the picture of the unit.

Notes on Use

Before Use

- Do not lift the camera by the cable.
- If you find condensation when you open the package, turn on the power after the condensation disappears.

Data and security

- Since the service is Internet-based, there is a risk that the image or audio you are monitoring can be viewed or used by a third-party via the network. You should keep in mind that the images or audio you are monitoring may be protected by privacy and other legal rights, and the responsibility for making sure you are complying with applicable laws is yours alone.
- Access to the images and audio is protected only by a user name and the password you set up. No further authentication is provided nor should you presume that any other protective filtering is done by the service.
- SONY IS NOT RESPONSIBLE, AND ASSUMES ABSOLUTELY NO LIABILITY TO YOU OR ANYONE ELSE, FOR SERVICE INTERRUPTIONS OR DISCONTINUATIONS OR EVEN SERVICE CANCELLATION. THE SERVICE IS PROVIDED AS-IS, AND SONY DISCLAIMS AND EXCLUDES ALL WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO THE SERVICE INCLUDING, BUT NOT LIMITED TO, ANY OR ALL IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR THAT IT WILL OPERATE ERROR-FREE OR CONTINUOUSLY.
- Security configuration is essential for wireless LAN. Should a problem occur without setting security, or due to the limitation of the wireless LAN specifications, SONY shall not be liable for any damage, loss of recorded data or restoration thereof.
- 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.
- If you lose data by using this unit, SONY accepts no responsibility for restoration of the data.

Personal information

The images taken by the system using this device can identify individuals and thus they fall under "personal information" stipulated in the "Act on the Protection of Personal Information". Please handle the video data appropriately according to law.
Information recorded using this product may also be "personal information". Upon disposal, transfer, repair, or any other occasion where this product or storage media is passed on to a third party, practice due care in its handling.

Operating or storage location

- Avoid operating or storing the camera in the following locations.
- Extremely hot or cold places (Operating temperature: -40°C to +50°C [-40°F to +122°F])
 - Close to sources of strong magnetism
 - Close to sources of powerful electromagnetic radiation, such as radios or TV transmitters
 - Locations subject to vibration or shock
 - Locations where radiation or X-rays are emitted
 - Near the outdoor unit of an air conditioner or any other place where drastic temperature changes may occur (this may cause clouding of the dome cover)
 - Locations subject to steam or high humidity
 - Locations subject to strong wind, such as high places
 - Locations where corrosive gas or flammable gas is emitted, or where salt damage may occur

Ventilation

To prevent heat buildup, do not block air circulation around the camera.

Transportation

- Always turn off the power when carrying.
- When transporting the camera, repack it as originally packed at the factory or in materials of equal quality.

Grounding

- Always connect the ground cable before connecting the power cable to the main power supply.
When removing the ground connection, always disconnect the power cable from the main power supply.
- Check that the ground cable is correctly and securely connected before use.

Installation

Ensure that the dome cover is installed facing perpendicularly downward without any tilt.

Humidity when installing the device

Install this device under low humidity condition. Otherwise the dome cover may cloud up during operation.

Using in cold climates

This device is equipped with a built-in heater which automatically operates when the internal temperature drops significantly low. However, the heater may not defrost snow and frost attached on the dome cover under a temperature condition of -40°C (-40°F) or below.

Starting and closing under low temperature

- When started under temperature conditions of -10°C (14°F) or below, the camera system may not start operating immediately after start-up. In such a case, the heater starts and raises the internal temperature, starting the camera system. It may take about two hours for the camera system to start streaming normal images.
- If the unit is turned off in an ambient temperature of 0°C (32°F) or below, condensation may occur in the dome cover, which may take some time to clear after turning the unit on again. In order to prevent the prolonged condensation, it is recommended that to leave this unit powered on for a short term recess, in that environment.

Cleaning

- Use a soft, dry cloth to clean the external surfaces of the camera. Stubborn stains can be removed using a soft cloth dampened with a small quantity of detergent solution, then wipe dry.
- Do not use volatile solvents such as alcohol, benzene or thinners as they may damage the surface finishes.

Please consult the store of purchase or authorized Sony dealer if there were troubles and anomalies.

Note on laser beams

Laser beams may damage image sensors. You are cautioned that the surface of image sensors should not be exposed to laser beam radiation in an environment where a laser beam device is used.

Phenomena Specific to Image Sensors

The following phenomena that may occur in images are specific to image sensors. They do not indicate a malfunction.

White flecks

Although the image sensors are produced with high-precision technologies, fine white flecks may be generated on the screen in rare cases, caused by cosmic rays, etc.

This is related to the principle of image sensors and is not a malfunction. The white flecks especially tend to be seen in the following cases:
- when operating at a high environmental temperature
- when you have raised the gain (sensitivity)
- when using the slow shutter

Vertical smear (SNC-RS86N/RS86P/RS84N/RS84P only)

When an extremely bright object, such as a strong spotlight or flashlight, is being shot, vertical tails may be produced on the screen, or the image may be distorted.

Aliasing

When fine patterns, stripes, or lines are shot, they may appear jagged or flicker.

About the Supplied Manuals

Installation Manual (this document)

This Installation Manual describes the names and functions of parts and controls of the Network Camera, gives connection examples and explains how to set up the camera. Be sure to read the Installation Manual before operating.

User’s Guide (stored in the CD-ROM)

The User’s Guide describes how to set up the camera and how to control the camera via a Web browser.
After installing and connecting the camera correctly, operate referring to this User’s Guide.

Using the CD-ROM Manuals

The supplied CD-ROM disc includes the User’s Guides for this unit (Japanese, English, French, German, Spanish, Italian and Chinese versions) in PDF format.

Preparations

The Adobe Reader Version 6.0 or higher must be installed on your computer in order to use the User’s Guide stored in the CD-ROM disc.

Note

If Adobe Reader is not installed, it may be downloaded from the following URL: <http://www.adobe.com/>

Reading the manual in the CD-ROM

- Insert the CD-ROM in your CD-ROM drive.**
A cover page appears automatically in your Web browser.
If it does not appear automatically in the Web browser, double-click on the index.htm file on the CD-ROM.
- Select and click on the manual that you want to read.**
This opens the PDF file of the manual.
Clicking an item in the Table of Contents allows you jump to the relevant page.

Notes

- The files may not be displayed properly, depending on the version of Adobe Reader. In this case, install the latest version, which you can download from the URL mentioned in "Preparations" above.
- If you have lost or damaged the CD-ROM, you can purchase replacement. Contact your Sony service representative.

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

Location and Function of Part

Camera (Front)

A

1 Top sunshade

2 Sunshade

3 Dome cover

Camera (Top)

B

4 Built-in wire rope

The wire rope is used for fall-prevention.

5 CF card slot

This slot is used for the optional SNCA-CFW5* Wireless Card or recommended CF memory card.

Insert the SNCA-CFW5* card into the optional Wireless LAN Antenna SNCA-AN1 and the optional Outdoor Antenna Cable Kit SNCA-CW5 to extend the communicable distance by wireless LAN.

Notes

Insert the CF card with its top side facing outward of the unit.

For inquires regarding verified CF memory cards, contact your authorized Sony dealer.

* SNCA-CFW5, SNCA-AN1 and SNCA-CW5 are not available in some countries and areas. For details, contact your authorized Sony dealer.

CF card lever

Press the lever to remove the CF card from the CF card slot.

Rating Label

This label shows the name of device and its electric rating.

Camera connection terminal

Connect to the camera connection terminal of the top unit.

Top Unit (Bottom)

C

6 Reset switch

This switch returns the setting of the device to the factory default setting.

1. Move the INIT switch in the direction indicated by ← and connect with camera.

2. Turn on power and wait 1 minute. After the initialization is completed, the camera starts.

3. Check that the camera has started and turn off the power to remove camera.

4. Move the INIT switch back to its original position.

Notes

Resetting the device removes all customized settings. It is recommended that users save the settings as necessary. Instructions on how to save settings are available in the User’s Guide.

The reset switch should always be returned to its original position. Otherwise your device is reset to its factory default setting whenever it is turned on.

Camera connection terminal

Connect to the camera connection terminal of the camera.

Cable

D

11 Serial communicable I/O (Input/Output) cable (5 pin)

Provides a serial communicable port.

Use the supplied connection harness 5-pin to connect.

12 Alarm I/O (Input/Output) cable (9 pin)

Provides four sensor inputs and two alarm outputs.

Use the supplied connection harness 9-pin to connect.

13 LAN (network) cable (RJ45)

Connect to a 10BASE-T or 100BASE-TX network using a network cable (UTP, category 5).

14 Line output terminal (minijack, monaural)

Connect to a speaker with a built-in amplifier.

15 Microphone input terminal (minijack, monaural)

Connect a commercially available microphone.

16 Video output terminal

Outputs a composite video signal.

(continued on the reverse side)



