

Hybrid Camera Receiver

Installation Manual

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

SNCA-ZX104/ZP104



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Owner's Record

The model and serial numbers are located on the bottom of the unit. Record these numbers in the spaces provided below.
Refer to these numbers whenever you call upon your Sony dealer regarding this product.
Model No. _____ Serial No. _____

WARNING

To reduce the risk of fire or electric shock, do not expose this apparatus to rain or moisture.

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

This unit has no power switch.
When installing the unit, incorporate a readily accessible disconnect device in the fixed wiring, or connect the power plug to an easily accessible socket-outlet near the unit.
If a fault should occur during operation of the unit, operate the disconnect device to switch the power supply off, or disconnect the power plug.

WARNING

Using this unit at a voltage other than 120 V may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

For the customers in the U.S.A.

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 of Part 15 of FCC Rules.

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.

For the customers in Canada

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

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.
This apparatus shall not be used in the residential area.

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.

When installing the installation space must be secured in consideration of the ventilation and service operation.

- Do not block the ventilation slots at the left side and right side panels, and vents of the fans.
- Leave a space around the unit for ventilation.
- Leave more than 15 cm (6 in) of space in the rear of the unit to secure the operation area.

When the unit is installed on the desk or the like, leave at least 2 cm (¹/₁₆ in) of space in the left and right sides.
Leaving 40 cm (15 ³/₄ in) or more of space above the unit is recommended for service operation.

WARNING

THIS WARNING IS APPLICABLE FOR USA ONLY.
If used in USA, use the UL LISTED power cord specified below.
DO NOT USE ANY OTHER POWER CORD.

Plug Cap	Parallel blade (NEMA 1-15P Configuration)
Cord	Type NISPT-2 or SPT-2, two 16 or 18 AWG wires
Length	Minimum 1.5 m (4 ft 11 in), Less than 2.5 m (8 ft 3 in)
Rating	Minimum 7 A, 125 V

Using this unit at a voltage other than 120 V may require the use of a different line cord or attachment plug, or both. To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

WARNING

THIS WARNING IS APPLICABLE FOR OTHER COUNTRIES.
1. Use the approved Power Cord (2-core mains lead) / Appliance Connector / Plug that conforms to the safety regulations of each country if applicable.
2. Use the Power Cord (2-core mains lead) / Appliance Connector / Plug conforming to the proper ratings (Voltage, Ampere).

If you have questions on the use of the above Power Cord / Appliance Connector / Plug, please consult a qualified service personnel.

IMPORTANT

The nameplate is located on the bottom.

ATTENTION

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

Notes on Use

Before Use

If you find condensation when you open the package, turn on the power after leaving the unit off for about 60 minutes.

Data and security

- Access to the SNCA-ZX104 is protected only by a user name and your set password.
- SONY IS NOT RESPONSIBLE, AND ASSUMES ABSOLUTELY NO LIABILITY TO YOU OR ANYONE ELSE, FOR THE INTERRUPTION, DISCONTINUATION OR CANCELLATION OF SERVICE(S) RELATED TO THIS RECEIVER. 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.
- 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.

Operating or storage location

- Avoid operating or storing the unit in the following locations.
- Extremely hot or cold places (Operating temperature: 0 °C to 45 °C [32 °F to 113 °F])
 - Exposed to direct sunlight for a long time, or close to heating equipment (e.g., near heaters)
 - Close to sources of strong magnetism
 - Close to sources of powerful electromagnetic radiation, such as radios or TV transmitters
 - Locations subject to strong vibration or shock

Ventilation

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

Transportation

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

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.

Getting Started

This Installation Manual explains how to operate an IPELA HYBRID-compatible hybrid camera receiver.

Features

- SNCA-ZX104 and SNCA-ZP104 are IPELA HYBRID-compatible hybrid camera receivers.
- The IPELA HYBRID-compatible camera connected to this unit's SLOC port connects to an external network via this unit's LAN port. Also, composite video signals from a camera are output via this unit's video output terminal.
- Up to 4 IPELA HYBRID-compatible cameras can be connected to this receiver.
- An IPELA HYBRID-compatible camera's pan, tilt and zoom, etc., functions can be controlled from a keyboard connected to this unit.
- The Serial PTZ function converts control signals input from the RS-485 port to TCP/IP packets and sends them via a network. Connect a keyboard compatible with the Pelco-D protocol to the RS-485 port.
- You can control up to 255 Serial PTZ-compatible cameras registered to a single SNCA-ZX104. (When connecting this unit with multiple receivers, see "Connection" for details.)
- You can control other SNCA-ZP104 and SNCA-ZX104 units via the Serial PTZ function by using a keyboard connected to a single SNCA-ZX104.

About the Supplied Manuals

Installation Manual (this document)

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

User's Guide (stored in the CD-ROM) (SNCA-ZX104 only)

The User's Guide describes how to set up the receiver and how to control the unit via a Web browser.

After installing and connecting the receiver correctly, operate by referring to this User's Guide.

Using the CD-ROM Manuals

The supplied CD-ROM includes the manual and related documentation for this unit in PDF format.

Preparations

Adobe Reader Version 6.0 or higher must be installed on your computer in order to view the manual and related documentation stored in the CD-ROM.

Note

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

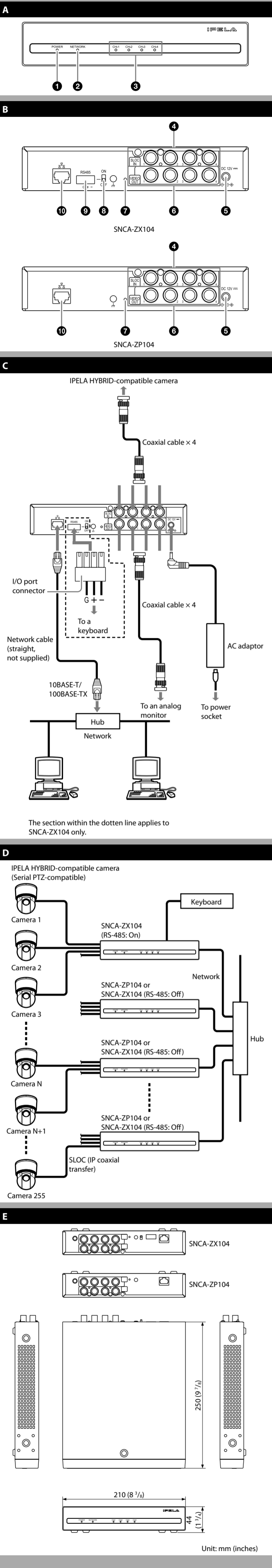
Reading the manual in the CD-ROM

- 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 a replacement. Contact your Sony service representative.

(continued on the reverse side)



Location and Function of Parts

A

Front

A

1 POWER indicator (green)

When the receiver receives power, an internal system check is performed. The indicator lights up when the unit is operating normally.

2 NETWORK indicator (green)

The indicator lights up or flashes in green when the unit is connected to the network. The indicator remains off when the unit is not connected to the network.

3 SLOC indicator (orange)

The indicator lights up in orange when a SLOC connection to a hybrid camera is established. The indicator flashes in orange when a SLOC transmission error is occurring.

Rear

B

4 SLOC (IP coaxial transfer) port

Use this terminal to connect the unit to an IPELA HYBRID-compatible camera via a coaxial cable.

5 DC IN 12 V DC (power input) terminal

Connect to the supplied DC 12 V AC adapter.

6 Video output terminal (BNC)

Outputs composite video signals.

7 Reset switch

To reset the unit, press this switch. To restore the unit's factory default settings, press this switch for more than 3 seconds. To push the switch, use a pointed object.

8 RS-485 selection switch (SNCA-ZX104 only)

Set this switch to ON to enable network functions; this unit's settings can then be changed over the network that is connected via the LAN port. This unit's Serial PTZ functions are also enabled; the unit can accept input from the keyboard connected to this unit's I/O port. Set this switch to OFF to disable network functions and block input from the I/O port.

9 I/O (input/output) port (SNCA-ZX104 only)

This unit includes an RS-485 port. You can connect a keyboard that is compatible with Pelco-D protocol control signals in order to control the unit.

10 LAN (network) port (RJ-45)

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

Caution

- For safety, do not connect the connector for peripheral device wiring that might have excessive voltage to this port. Follow the instructions for this port.
- When you connect the LAN cable of the unit to peripheral device, use a shielded-type cable to prevent malfunction due to radiation noise.

Connection

C

Connecting to the Network

Connect the unit via its LAN port using a network cable (not supplied).

Connecting to a Monitor

Connect a video output terminal of the unit to an analog monitor using a coaxial cable (not supplied).

Connecting to an IPELA HYBRID-compatible Camera

Connect a SLOC port of the unit to an IPELA HYBRID-compatible camera's SLOC port using a coaxial cable (not supplied). The maximum coaxial cable length is RG-59 30 m.

Note

The high-frequency characteristics of coaxial cables may differ, even if the cables are of the same classification. Use a high-quality, high-frequency coaxial cable with this unit. For details on coaxial cables and cameras that can be connected to this unit, refer to the instruction manual of the connecting SLOC device. For further details, please consult an authorized Sony dealer.

Connecting to a Keyboard (SNCA-ZX104)

Using the supplied I/O port connector, connect a keyboard (not supplied) that supports the Pelco-D protocol, and set the RS-485 selection switch to ON. Set the RS-485 selection switch of SNCA-ZX104 units without connected keyboards to OFF. For details on settings related to the Serial PTZ function and settings related to connecting the keyboard, refer to the SNCA-ZX104 User's Guide. For details on camera settings related to Serial PTZ, refer to the camera's Instruction Manual.

Connecting the Power Source

Connect to the supplied DC 12 V AC adapter.

Connecting multiple receivers and using the Serial PTZ function

D

Using an SNCA-ZX104 as the first receiver, set its RS-485 switch to On, and then connect the keyboard. An SNCA-ZX104 with its rear RS-485 switch set to Off, or an SNCA-ZP104 can then be connected and used. For details on setting the receiver's Serial PTZ function, refer to the SNCA-ZX104 User's Guide. For details on settings for the connected camera(s), refer to the connected device's Instruction Manual. For compatible IPELA HYBRID cameras, contact your authorized Sony dealer.

Specifications

Interface

SLOC input BNC x4, 75Ω termination
Analog video output BNC x4, composite 1.0 Vp-p, 75Ω termination
Network port 10BASE-T/100BASE-TX, auto negotiation (RJ-45)
I/O port (SNCA-ZX104 only) Camera control interface: x1 (RS-485)

Others

Power supply DC 12V
Consumption current 0.7 A
Operating temperature 0 °C to 45 °C (32 °F to 113 °F)
Storage temperature -20 °C to +60 °C (-4 °F to +140 °F)
Operating humidity 20% to 80% (no condensation)
Storage humidity 20% to 80% (no condensation)
Dimensions 210 × 44 × 250 mm (8 3/8 × 1 3/4 × 9 7/8 in) (w/h/d) (without the projecting parts)
Mass Approximately 1.2 kg
Supplied accessories CD-ROM (User's Guide and supplied programs) (1)
Installation Manual (this document) (1)
B&P Warranty Booklet (1)
AC adaptor (AC-NB12A) (1)
Power cord (1)
I/O port connector (SNCA-ZX104 only) (1)

Note

This package may contain additional installation manuals and/or documentation.

AC adaptor (AC-NB12A)

Power supply AC 100 to 240 V, 50/60 Hz
0.65 A to 0.35 A
Output DC 12 V, 2.5 A
Operating temperature 0 °C to 45 °C (32 °F to 113 °F)
Operating humidity 20% to 80% (no condensation)
Storage temperature -20 °C to +60 °C (-4 °F to +140 °F)
Storage humidity 20% to 80% (no condensation)
Dimensions 49.5 × 28 × 99.5 mm (2 × 1 1/8 × 4 in) (w/h/d) (without the projecting parts)
Mass Approximately 0.2 kg (7 oz)

Design and specifications are subject to change without notice.

Recommendation of Periodic Inspections

In case using this device over an extended period of time, please have it inspected periodically for safe use. It may appear flawless, but the components may have deteriorated over time, which may cause a malfunction or accident. For details, please consult the store of purchase or an authorized Sony dealer.

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