

ARCHITECT & ENGINEER SPECIFICATIONS

SECTION 28 23 29 VIDEO SURVEILLANCE REMOTE DEVICES AND SENSORS

SNCA-ZX104 4CH Hybrid Camera Receiver

PART 2 – PRODUCTS

2.01 CCTV/NETWORK VIDEO ENCODER SPECIFICATIONS

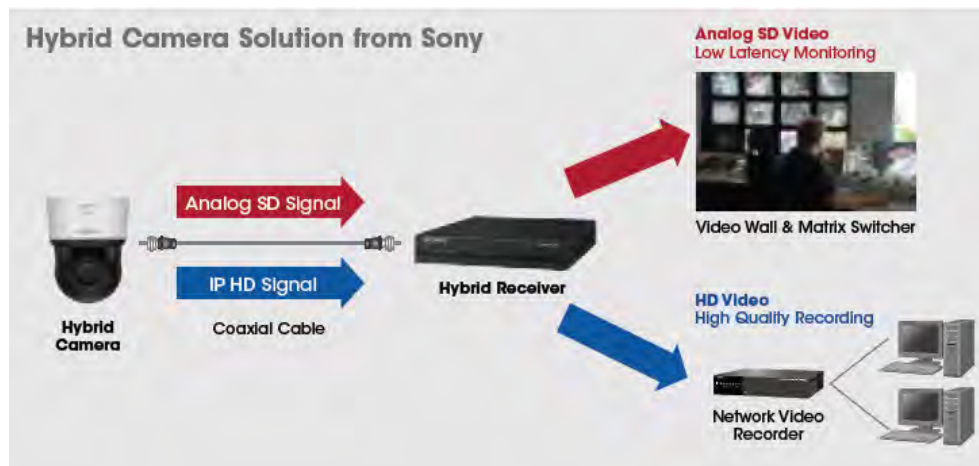
A. OVERVIEW OF HYBRID CAMERA SOLUTIONS:

1. IPELA HYBRID– Sony’s IP and Analog-over-Coax Technology* –shall offer cost-effective and environmentally-friendly retrofit solutions for existing analog CCTV systems.

* Sony’s IP and analog-over-coax technology is developed based on Intersil Corporation’s SLOC (Security Link Over Coax) technology.

2. Sony’s hybrid camera can simultaneously transmit both IP HD video signal and analog SD video signal on a single coaxial cable*. It shall allow customers to easily migrate to HD IP video surveillance systems with minimal investment, utilizing their existing analog infrastructure.

* A SLOC-compatible equipment is required for simultaneous transmission of the both signals. The output analog image may not display correctly, depending on the video format and image size settings. For details please contact your nearest Sony office.



3. These unique solutions deliver the following advantages:
 - i. Cost-effective and environmentally-friendly surveillance systems that can be easily migrated from an analog CCTV system to an IP network-based system, making the most of any existing surveillance infrastructure (e.g., coaxial cables, local power supplies, matrix switchers, controllers, and video wall monitors)
 - ii. Simultaneous use of IP HD video and analog SD video
 - iii. Utilization of the advanced features and functionalities offered by IP network cameras
 - iv. Extended cable length of up to 300 m (1,000 feet) with an RG-59 coaxial cable. Cable length varies according to cable grade and quality.
 - v. Minimized latency of analog SD video for live monitoring

B. GENERAL SPECIFICATIONS:

1. The SNCA-ZX104 shall be an IPELA HYBRID-compatible camera receiver.
The SNCA-ZX104 shall be a box type compact hybrid camera receiver with 1/2 19 inch rack-mount size.
2. The SNCA-ZX104 shall make IPELA HYBRID-compatible cameras connect to an external network via this receiver's LAN (network) port (RJ45).
Also, composite video signals from IPELA HYBRID-compatible cameras are output via this receiver's video output terminals (BNC).
3. The SNCA-ZX104 shall connect up to 4 IPELA HYBRID-compatible cameras.
4. The SNCA-ZX104 shall have Serial PTZ function.
This function can convert control signals input from the RS-485 port (I/O port) to TCP/IP packets and send them via a network.
A keyboard compatible with the Pelco-D protocol is needed to connect to the RS-485 port (I/O port).
Besides, you can control up to 255 Serial PTZ-compatible cameras registered to a single SNCA-ZX104.

The following IPELA HYBRID-compatible cameras are supported for Serial PTZ function:

-SNC-ZP550
-SNC-ZR550.

IP multicast can be used in case of connecting only one IPELA HYBRID-compatible to the receiver.

5. The supported commands to control the camera(s) over the serial interface shall be the following: Pan Right, Pan Left, Tilt Up, Tilt Down, Zoom In, Zoom Out, Preset Set, Preset Call, Iris Open, Iris Close, Focus Near and Focus Far.
6. The network interface shall be via an 8-pin RJ-45 connector, 10Base-T/100Base-TX Ethernet. IPv4 is supported.
7. The supported operating systems shall be Microsoft Windows 8 Pro* 32 bit and 64 bit, Microsoft Windows 7 32 bit and 64 bit (Ultimate/Professional), Windows Vista 32 bit (Ultimate/Business), and Windows XP 32 bit (Professional).
*Software version 1.79 or later
8. The SNCA-ZX104 shall incorporate a built-in web server, such that the standard web browser Windows Internet Explorer (version 6.0, 7.0, 8.0, 9.0 or 10.0* recommended) can be used to view the camera(s) without need for special viewer software.
*Software version 1.79 or later
9. The SNCA-ZX104 shall have user configurable port settings.
10. The SNC toolbox software includes the IP Setup (including group camera management) program, Firmware Upgrade Tool, Privacy Masking Tool, Custom Homepage Installer, and Group Camera Setting Scheduler. The SNC toolbox shall be supplied with the encoder as a standard accessory in the CD-ROM.
11. The SNCA-ZX104 shall have an I/O (input/output) port that supports RS-485 to connect a keyboard compatible with Pelco-D protocol, by using the supplied I/O port connector.

Indication	Function
	NC
+	RS-485 (+) input/output (GND level reference)
-	RS-485 (-) input/output (GND level reference)
G	RS-485 reference GND

12. The SNCA-ZX104 shall have one MAC address. IP address can be assigned when the RS-485 selection switch is set to ON.

C. VIDEO-ELECTRICAL SPECIFICATIONS:

1. The SNCA-ZX104 input power shall be a power voltage of DC 12 V.
2. The power connection shall be via a coaxial DC jack. The suitable AC adaptor AC-NB12A shall be furnished as a supplied accessory, the AC-NB12A shall accept AC 100V to AC 240V, 50/60Hz, 0.65 A to 0.35 A, and the output power shall be DC 12 V, 2.5 A.
3. The SNCA-ZX104 shall have 4 SLOC (IP coaxial transfer) port inputs. The SLOC (IP coaxial transfer) port input signals shall be 75 ohms termination via BNC type connectors.
4. The SNCA-ZX104 shall have 4 analog video outputs. The analog SD video output signals (NTSC or PAL) shall be 1.0 V peak-to-peak @ 75 ohms termination via BNC type connectors.
5. Power consumption for the SNCA-ZX104 shall be approximately 12.0 W.
Power consumption for the supplied AC adaptor AC-NB12A shall be approximately 0.22 A/0.12 A (AC 100V/AC240V).

D. MECHANICAL SPECIFICATIONS:

1. The SNCA-ZX104 shall have 4 SLOC (IP coaxial transfer) port inputs. The interface shall be via BNC type connectors.
2. The I/O interface shall be via a 4-pin connector.
3. The SNCA-ZX104 shall have an RJ-45 socket on the rear of the unit.
4. The SNCA-ZX104 shall operate on DC 12 V power. The supplied AC-NB12A shall be used.
5. The SNCA-ZX104 dimensions (W x H x D) shall be approximately 8 3/8 x 1 3/4 x 9 7/8 inches, 210 x 44 x 250 mm (without projecting parts).
6. The SNCA-ZX104 shall weigh approximately 2 lb 7 oz (1.1 kg).
7. The SNCA-ZX104 main body shall be metal type with ventilation holes.
8. The SNCA-ZX104 shall have power and network LEDs on the front.

E. ENVIRONMENTAL SPECIFICATIONS:

1. The SNCA-ZX104 operating temperature shall be within the range of +32 ° F to +113 ° F (0 ° C to +45 ° C).
2. The SNCA-ZX104 storage temperature shall be within the range of -4 ° F to +140 ° F (-20 ° C to +60 ° C).
3. The SNCA-ZX104 operating humidity shall be within the range of 20 % to 80 % (non-condensing).
4. The SNCA-ZX104 storage humidity shall be within the range of 20 % to 80 % (non-condensing).

F. SUPPLIED ACCESSORIES:

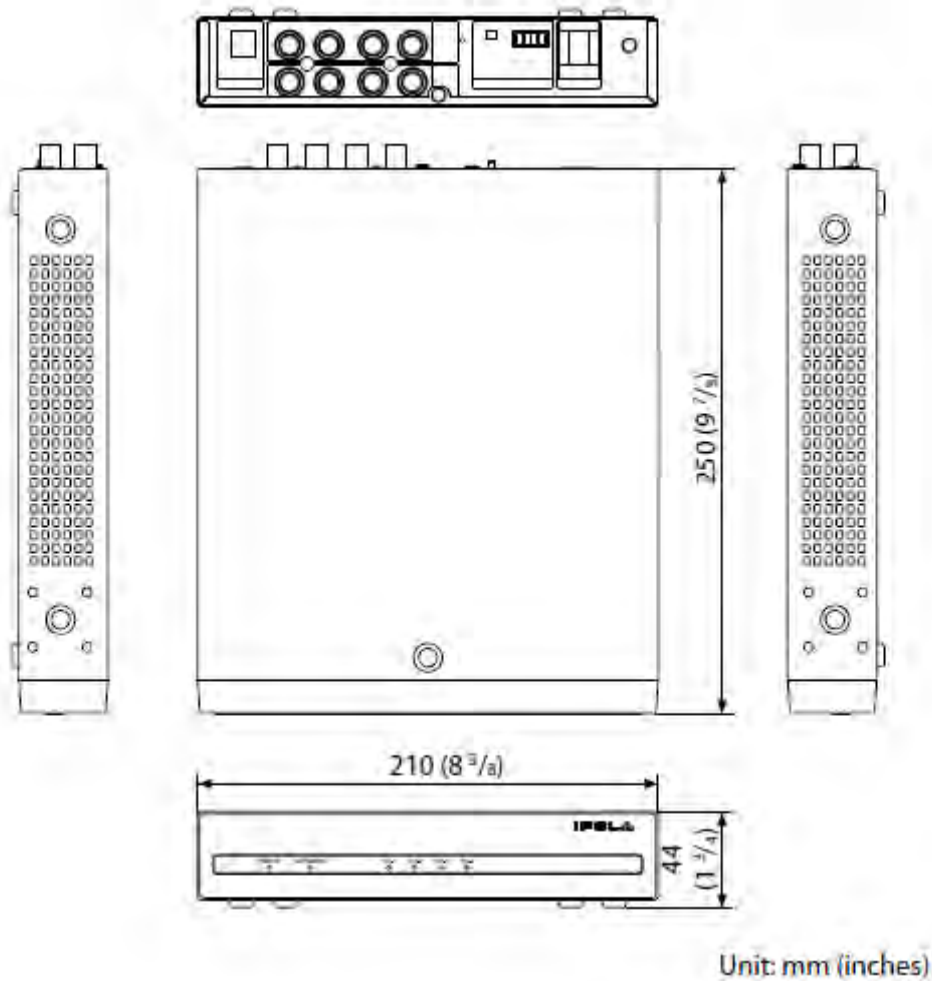
1. CD-ROM (User's Guide and supplied programs) (1)
2. Installation manual (1)
3. B&P Warranty Booklet (1)
4. AC adaptor (AC-NB12A)* (1)
5. Power cord (1)
6. I/O port connector (1)

* AC-NB12A specifications:

Operating temperature	32 °F to 113 °F (0 °C to +45 °C)
Operating humidity	20 % to 80 % (non-condensing)
Storage temperature	-4 °F to +140 °F (-20 °C to +60 °C)
Storage humidity	20 % to 80 % (non-condensing)
Dimensions (W x H x D)	approx. 2 x 1 1/8 x 4 inches (49.5 x 28 x 99.5 mm) (without projecting parts)
Mass	Approximately 7 oz (0.2 kg)

Dimensions

SNCA-ZX104



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