SNC-RX Series

SNC-RX570P
SNC-RX550P
SNC-RX530P

IPELA

IPELA
INTEGRATED VISUAL COMMUNICATION

SONY

SNC-RX Series
Network Cameras
SNC-RX570P
SNC-RX550P
SNC-RX530P

www.sonybiz.net/nvm

SNC-RX Series

High-Performance Network Cameras With 360 Degree Endless Rotation Delivers Efficient 24/7 Monitoring Operation – Anytime, Anywhere, Anyplace.

The SNC-RX Series Network Dome Cameras combine the latest image processing technology to provide multiple compression formats and advanced functionality with speed dome capabilities and a range of optical zooms:

	SNC-RX570P	SNC-RX550P	SNC-RX530P
Optical Zoom	36x	26x	18x
Digital Zoom	432x	312x	216x

These cameras can freely and endlessly rotate 360 degrees, allowing users to monitor the area surrounding the camera without interuption. In addition, equipped with a powerful optical zoom feature, the cameras allow users to zoom in on small or distant objects with exceptional clarity. Designed for 24/7 operation, the SNC-RX Series incorporate a Day/Night function, providing clear images even in 0.15 lx lighting conditions. And, using advanced image processing technology, the cameras offer three compression formats; JPEG, MPEG-4, and H.264, so that users can choose the appropriate compression format to match their network environment and monitoring applications.

The SNC-RX Series also includes a newly-developed "Dual Encoding Capability" to allow simultaneous streaming in JPEG and MPEG-4, further improving workflow and utilisation of resources.

Combining other intelligent features, such as Intelligent Object Detection and Intelligent Motion Detection into its stylish body, the SNC-RX Series is the right choice for a wide variety of surveillance and monitoring applications.

Pan/Tilt Range

360° Endless rotation

90° Tilt

Features

360-degree Endless Pan/Tilt/Zoom Capability

The SNC-RX Series cameras have a high-speed 360° endless panning (or rotation) capability and a tilt range of 90°, which allows users to precisely monitor almost any object surrounding the camera. Also, with its powerful optical zoom, users can zoom in on small or distant objects with exceptional clarity.

High-Quality Images and High Sensitivity

Employing the latest 1/4-type Exwave HAD™ CCD, the SNC-RX Series cameras deliver exceptional picture quality for your remote monitoring applications. And, with ultra sensitive minimum illumination levels of 1.0 lx at F 1.6 in colour, the cameras capture high-contrast images even in low-light conditions.

Selectable JPEG, MPEG-4, H.264 Compression Formats

The SNC-RX Series cameras support three compression formats, JPEG, MPEG-4, and H.264. MPEG-4 provides clear moving images efficiently over networks even with limited network bandwidth. For higher compression, when bandwidth is even more limited, H.264, which achieves two times more compression than MPEG-4, is available. If high quality still images are preferred, then the industry standard JPEG compression format is selectable. The image size can be selected from three modes to meet your network environment and application requirements.

Image Stabiliser

The image stabiliser function minimises the appearance of shaky images caused by low-frequency vibration so that stable and sharp images are provided. This function is useful for outdoor surveillance and traffic monitoring applications.

IPELA

Business is changing. The vision of integrated visual communication is becoming a reality with Sony IPELA – A suite of intelligent IP-based Network Video Monitoring and videoconferencing products and solutions.

Sony IPELA utilises the rapidly expanding global IP broadband network and advanced high-resolution imaging technology to offer visual communications systems that enable customers to realise the Sony vision for the work place of the future, where better business decisions are made as a result of enhanced, real-time person-to-person and location-to-location communication.

Sony IPELA Network Video Monitoring solutions offer cost benefits and flexibility in the applications of Security, CCTV Surveillance, Remote Monitoring and Leisure. Complete solutions offer customers a choice of IP cameras, Network Video Recorders and Management Software.

Reality

- High Frame Rate (25 fps*)
- High Sensitivity (Minimum illumination 0.15 lx)
- High Picture Quality with Dynamic Frame Integration

* Max depending upon camera set-up

▶ **Great picture quality, even in low light**

Intelligence

- Intelligent Object Detection
- Intelligent Motion Detection
- Anti-Tampering Function

▶ **Your applications are enhanced by technology**

Usability

- JPEG, MPEG-4, H.264 Compression Formats
- Dual Encoding Capability
- User-Friendly GUI

▶ **Flexible and user-friendly**

System Configuration

Memory Stick
Memory StickSlot
Sensor In
Passive Infrared Sensor (PIR)

SNCA-CFW1 with PC Card Adaptor (IEEE 802.11b)
ATA Memory Card
PC Card Slot

LAN

Alarm Out
Alarm Out
100Base-TX

IR Illuminator
Mic In
Microphone

Video Out

SNC-RX550P
SNC-RX570P
SNC-RX530P

LCD MONITOR 4:3

Audio Line Out
Speaker

Hard Disk Recorder

Monitor
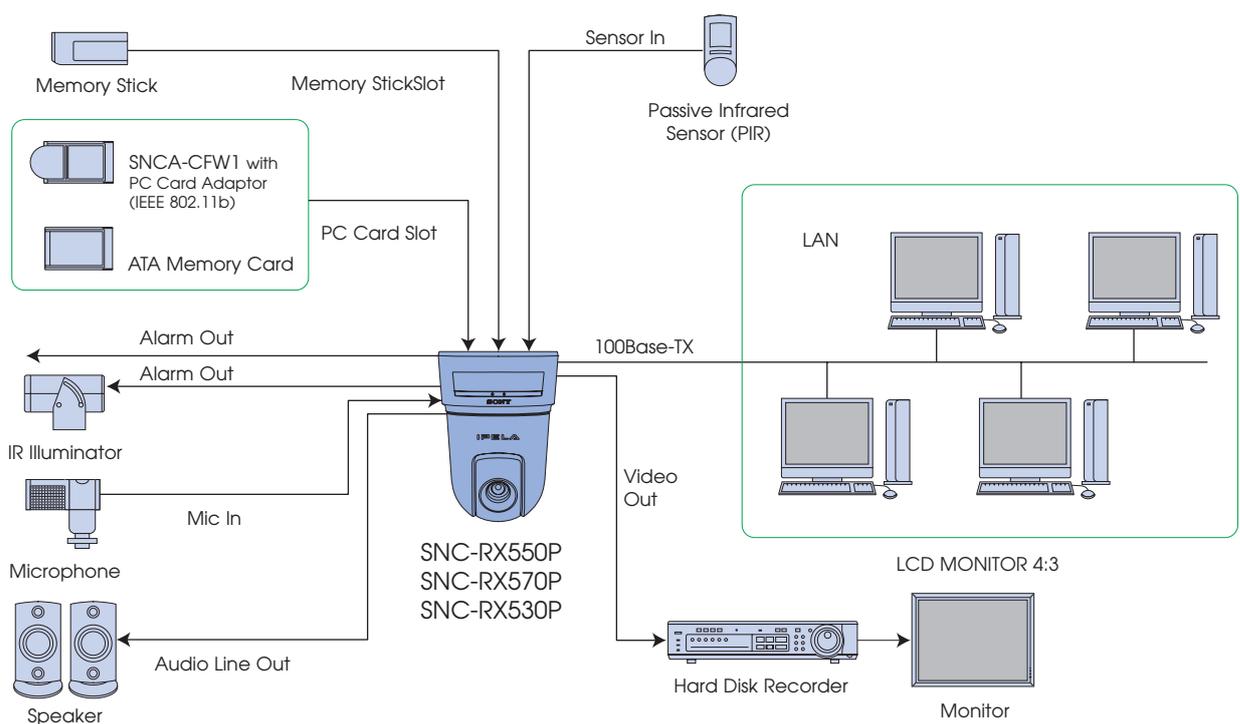
Anti-tampering Function*

Incorporating a digital signature technology using Public Key Infrastructure (PKI), the SNC-RX Series allows users to verify the origin of images and ensure the integrity of images against tampering. This is done by creating a digital certificate for each camera manufactured and applying digital signatures in the form of metadata to all images produced by these cameras ; this combination assures that an image produced by a camera is unique to that camera.

* This function is available with a software upgrade. For more details, please consult your nearest Sony dealer.

Day/Night Function

The SNC-RX Series offers a Day/Night function to provide optimised sensitivity in both day and night environments. As the scene darkens, the infrared cut filter is automatically replaced with a clear filter and the cameras switche to B/W mode, requiring illumination of less than 0.15 lx. In this mode, the cameras are also sensitive to near IR illuminators, allowing it to operate even in 0.15 lx conditions.

Alarm Functions

Intelligent Motion Detection
The SNC-RX Series cameras are equipped with a built-in intelligent motion detection function that can trigger a variety of actions such as storing and transferring images or that can trigger an external device through its output relays. Unlike with conventional motion detection, the SNC-RX Series utilises the last 15 frames to calculate motion detection information and to trigger the alarm when motion is detected. This prevents unwanted noise components from accidentally triggering an alarm, providing more accurate detection and reducing the number of false triggers.

Dual Encoding Capability

The SNC-RX Series cameras are equipped with a dual encoding capability that enables the camera to generate both MPEG-4 and JPEG images simultaneously. For example, you can set up your system to transfer MPEG-4 images over a WAN or an Internet VPN, where network bandwidth is limited, while storing high-resolution JPEG images on a server configured on the LAN.

Intelligent Object Detection*
The SNC-RX Series can detect objects that have been left in one place for a specified duration. Up to four detection areas can be designated. This feature can be useful for applications such as detecting suspicious objects left in public spaces, or for detecting stalled cars or accidents on the road.

* The intelligent object detection function and intelligent motion detection function cannot be used simultaneously.

Sensor in/Alarm out
Equipped with two sensor inputs, the SNC-RX Series cameras can receive triggers from external sensors. Also, two alarm outputs can be used to trigger other devices to perform a variety of actions.

Pre-/Post-Alarm Image Storage
The SNC-RX Series is capable of storing both pre- and post-alarm images on removable media such as ATA memory cards and Memory Stick™ media when an alarm is triggered.

Image Transfer Using FTP/SMTP*
All of the pre-/post-alarm images stored at the time of an alarm event can be transferred to an FTP server for later viewing. Also, a still image at the time of an alarm event can be sent to a designated e-mail address.

* All images transferred using SMTP are in JPEG format.

Network Features

Simultaneous Access
Up to 20 users can simultaneously access the SNC-RX Series camera and monitor images separately.

Multicasting Capability
The SNC-RX Series has a built-in multicasting capability for MPEG-4 and H.264 video. When configured with a multicast router, the unit can efficiently stream video and audio to a large number of users.

Network Security Features

IP Filtering
With IP filtering, access to the SNC-RX Series cameras can be restricted to one or more groups of selected users. Up to ten different groups can be established by defining an IP address range for each group.

Password Protection
User names and passwords can be assigned to allow five levels of access. The administrator has complete access/control of the cameras; while the other four levels of access can be set to limit user privileges to functions such as PTZ control, viewing and trigger control.

Memory Stick Slot and PC Card Slot

Both Memory Stick and PC card slots are integrated into the SNC-RX Series cameras, enabling you to store images on removable media as required.

Wireless Capability

The SNC-RX Series cameras support the IEEE802.11b compliant SNCA-CFW1 Wireless LAN Card when used in combination with a Compact Flash™ Type PC card adaptor. This type of wireless configuration can save both time and money during installation. In addition, the optional SNCA-AN1 External Antenna enables the transmission of wireless signal over a longer distance.

Bi-Directional Audio

Incorporating an external microphone input, the SNC-RX Series allows for audio as well as video monitoring. Users can pick up the desired sound from the preferred location. This unit is also equipped with a speaker output, enabling users to send an alert or make an announcement, significantly expanding the possibilities for remote monitoring applications. With a Voice Alert function, you can play back an audio file using an alarm trigger or the scheduling function.

Colour Variation

Users can choose from two body colours, black or white, depending on the installation requirements of the site.

Analogue Composite Video Output

The SNC-RX Series cameras can output an analogue composite video signal via the BNC connector on the unit's rear panel. This feature is ideal for outputting image data to a local recording device or monitor.

RS-232C Interface

Transparency Function

The SNC-RX Series has a transparency function available via the RS-232C interface. External equipment can be connected and controlled by a PC connected to the network on which the camera resides.

VISCA™ Protocol

The SNC-RX Series cameras can interface with external control equipment using the Sony VISCA protocol. This configuration allows for local control of Pan/Tilt/Zoom and for camera settings.

User-Friendly GUI

The SNC-RX Series has a user-friendly GUI accessible via a PC running the Microsoft® Internet Explorer® browser software. Setup is very easy with intuitive icons and pull-down menus. Directly pointing to and clicking on any part of the monitor image in the viewer will pan and tilt the camera so that the selected point is centred. Also, selecting an area on the image by holding down the left mouse button and dragging the mouse diagonally will enlarge and centre the selected area in the monitor.

Memory Stick Slot
PC Card Slot

SONY
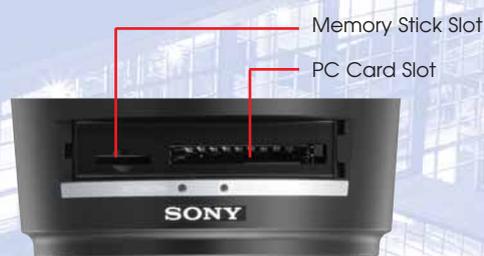
Intuitive GUI Operation   (simulated images)

SPECIFICATIONS

	SNC-RX570P	SNC-RX550P	SNC-RX530P
CAMERA			
Image device	1/4-type CCD with Exwave HAD technology		
Number of effective pixels	440,000 (752 x 582)		
Electronic shutter	1 to 1/10,000 s		
Gain control	Auto/Manual (-3 to +28 dB)		
Exposure control	Auto/Full auto/Shutter-priority/Iris-priority/Manual/EV compensation/Backlight compensation		
White balance mode	Auto/Indoor/Outdoor/One-push WB/ATW/Manua		
Lens type	Auto-focus zoom lens		
Zoom ratio	36x optical zoom (432x with digital zoom)	26x optical zoom (312x with digital zoom)	18x optical zoom (216x with digital zoom)
	* Vignetting may occur at wide viewing angles under low light conditions (SNC-RX550 Series only).		
Horizontal viewing angle	1.7 to 57.8 degrees	2.2 to 54.2 degrees	2.8 to 48.0 degrees
Focal length	f=3.4 to 122.4 mm	f=3.5 to 91.0 mm	f=4.1 to 73.8 mm
F-number	F1.6 (wide), F4.5 (tele)	F1.6 (wide), F3.8 (tele)	F1.4 (wide), F3.0 (tele)
Minimum object distance	320 mm (wide),1,500 mm (tele)		290 mm (wide), 800 mm (tele)
Pan angle	360 degrees endless rotation		
Pan speed	300 degrees/s (max.)		
Tilt angle	-90 to 0 degrees		
Tilt speed	300 degrees/s (max.)		
IMAGE			
Image size (H x V)	640 x 480, 320 x 240, 160 x 120 (JPEG, MPEG-4, H.264)		
Compression format	JPEG, MPEG-4, H.264		
Maximum frame rate JPEG/MPEG-4 H.264	25 fps (640 x 480) 8 fps (640 x 480)		
AUDIO			
Audio compression	G.711/G.726 (40, 32, 24, 16 Kb/s)		
NETWORK			
Protocols	TCP/IP, HTTP, SSL (https)*, ARP, ICMP, FTP, SMTP, DHCP, DNS, NTP, SNMP (MIB-2), RTP/RTCP *SSL is supported by the SNC-RZ50P only.		
Number of clients	20		
Authentication	IEEE802.1X		
INTERFACE			
Ethernet	10Base-T/100Base-TX (RJ-45)		
Serial interface	RS-232C (Transparency function or VISCA protocol)		
Card slots	PC card x1, Memory Stick x1		
Analogue video output	BNC x1, 1.0 Vp-p, 75 Ω		
I/O port	Sensor in x 2, Alarm out x 2		
External microphone input	Mini-jack (monaural, 2.2 KΩ 2.5 V plug-in power)		
Audio line output	Mini-jack (monaural), max output level: 1 Vrms		
ANALOGUE VIDEO OUTPUT			
Signal system	PAL (Composite)		
Horizontal resolution	530 TV lines	460 TV lines	460 TV lines
S/N ratio	more than 50 dB		
Min. illumination Colour B/W	1.4 lx (50IRE, F1.6, AGC ON) 0.15 lx (50IRE, F1.6, AGC ON)	1 lx (50IRE, F1.6, AGC ON) 0.15 lx (50IRE, F1.6, AGC ON)	0.7 lx (50IRE, F1.4, AGC ON) 0.15 lx (50IRE, F1.4, AGC ON
GENERAL			
Mass	2.2 kg (4 lb 13 oz)		
Dimensions (W x H x D)	160 x 160 x 230 mm (6 3/8 x 6 3/8 x 9 1/8 inches) excl. cover equipment 84 x 69 x 265 mm (3 3/8 x 2 3/4 x 10 1/2 inches) incl. cover equipment		
Body colour	Black/White		
Power requirements	AC 24 V/DC 12 V		
Power consumption	27 W max.	25 W max.	24 W max.
Operating temperature	0 to 50 °C (32 to 122 °F)		
Storage temperature	-20 to 60 °C (-4 to 140 °F)		
SUPPLIED ACCESSORIES			
	Ceiling-mount bracket (A), Ceiling-mount bracket (B), Screws x6, Wire rope, CD-ROM (setup software, user's guide), Installation manual		
SYSTEM REQUIREMENTS			
Operating system	Microsoft® Windows® 2000/XP		
Processor	CPU: Intel® Pentium® IV 1.5 GHz or higher		
Memory	RAM: 256 MB or more		
Web browser	Microsoft Internet Explorer® Ver. 6.0 or later		

REAR PANEL

Power
Analogue Video Out (BNC)
Audio Out
Ethernet
Mic In

CLASS 2 WIRING
AC IN 24V
I/O
12110987654321
LAN
DC IN 12V
SEE INSTRUCTION MANUAL
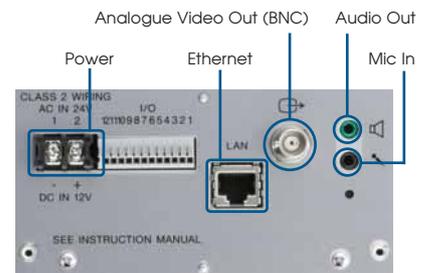
DIMENSIONS Unit: mm (inches)

160 (6 3/8)
160 (6 3/8)
230 (9 1/8)
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OPTIONAL ACCESSORIES

SNCA-CFW1
Wireless LAN Card

SNCA-AN1
Wireless LAN Antenna
(Optional accessory for the SNCA-CFW1 Wireless LAN Card)

YT-ICB550/T
In-ceiling Mount Kit
Tinted dome

YT-ICB550/C
In-ceiling Mount Kit
Clear dome

Notes: 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. 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.

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