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SNC-RX570P

Intelligent Network Camera with DynaView and 432x zoom- Black

High-Performance Network Camera With 360 Degree Endless Rotation

The SNC-RX570 is our flagship Network Camera with several advanced features. For example, it is particularly suited for use in high-contrast environments thanks to Sony's DynaView technology, which helps to reproduce clear and accurate images no matter what the lighting conditions. It also features a new digital signal processing (DSP) unit for enhanced picture quality and has an amazing 36x optical zoom, providing a maximum 432x zoom when combined with the 12x digital zoom.

All SNC-RX Series Network Dome Cameras feature built-in Intelligent Object Detection and Intelligent Motion Detection. They can also freely and endlessly rotate 360 degrees, allowing users to monitor the area surrounding the camera without interruption.

Advanced image processing technology offers a choice of three compression formats - JPEG, MPEG-4, and H.264 - so that users can choose the appropriate format to match their network environment and monitoring applications. A newly-developed "Dual Encoding Capability" also allows simultaneous streaming in JPEG and MPEG-4, further improving workflow flexibility.

Designed for 24/7 operation, the SNC-RX Series incorporate a Day/Night function, providing clear images even in 0.15 lx lighting conditions.

The SNC-RX Series is the right choice for a wide variety of surveillance and monitoring applications, delivering efficient 24/7 monitoring - anytime, anywhere, anyplace.

This product comes with the full PrimeSupport package. That's fast, hassle-free repairs, a helpline offering expert technical advice, and a free loan unit while yours is repaired. Plus the peace of mind that Sony is looking after your equipment – and your business.

Features

360 degree endless pan, tilt and 36x zoom

The SNC-RX570 incorporates 360 degree endless pan, tilt and 36x optical zoom capability to provide full visibility of the camera's surrounding. With a pan and tilt speed of 300 degree per second, you can move the sight to the desired position quickly. Up to 16 preset positions can be set with return accuracy of ±0.2 degree.

"Day/Night" function

With the combination of Day/Night function and Exwave HAD CCD, the SNC-RX570P offers high sensitivity (Minimum illumination 0.15lx) and excellent visibility in poor and varying light conditions.

Multiple compression formats (JPEG, MPEG4, H.264)

Depending on application and available bandwidth on a network, you can select your optimum codec from above three codecs. Typically, the compression ratio of MPEG4 is approximately four times higher than JPEG, while H.264's compression ratio is approximately twice that of the MPEG4.

MPEG4 and JPEG dual encoding capability

The SNC-RZ50P can generate MPEG4 and JPEG images simultaneously. While JPEG stream can be recorded and monitored locally, where available bandwidth is sufficient, MPEG4 can be transmitted over the Internet even under limited bandwidth.

Intelligent motion detection

Different from the conventional motion detection scheme, the SNC-RZ50's motion detection analyzes movement over the last 15 frames to detect only significant motion. It reduces false alarms from environmental noise such as shaking trees, waves or random noise from AGC (Auto Gain Control).

Intelligent object detection

An object that newly appears and stays more than 40 seconds in the selected scene can be detected as an "unattended object". This function can also detect an object which has been removed from the scene. There are three time settings for this function.

Wide Dynamic Range With DynaView Technology

The camera incorporates DynaView technology, which dramatically improves camera dynamic range by 128 times when compared to conventional cameras. This results in clear image reproduction, even in extreme high-contrast environments.

The camera captures the same image twice - first with anormal shutter speed, and then with a high shutter speed. The dark areas captured at normal shutter speed and the bright areas captured at high shutter speed are then combined into one image using an advanced DSP LSI.

Additionally, as these high-contrast scenes may have different lighting conditions, two white balance circuits are employed - one for normal shutter speed and the other for high shutter speed. This advanced technique reproduces high-contrast images with proper colour.

Benefits

High-Quality Images and High-Sensitivity

Employing the latest 1/4-type Exwave HAD CCD, the SNC-RX570 delivers exceptional picture quality for your remote monitoring applications. And with a minimum illumination level of 1.0 lx at F 1.6 in color, the camera captures high-contrast images even in low-light conditions.

High Frame Rate

The SNC-RX570 supports a maximum frame rate of 30 fps when the image size is VGA (640 x 480) in both MPEG-4 and JPEG modes, producing clear and smooth-moving images. The frame rate can be set to meet your network environment and system requirements.

Dual Encoding Capability

The SNC-RX570 is 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.

Anti-tampering Function

Incorporating a digital signature technology using Public Key Infrastructure (PKI), the SNC-RX570 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 that camera; this combination assures that an image produced by a camera is unique only to that camera.

Sensor IN/Alarm OUT ports

Equipped with two sensor inputs, the SNC-RX570 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-RX570 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*.

Simultaneous Access

Up to 20 users can simultaneously access the SNC-RX570 and monitor images separately.

Multicasting Capability

The SNC-RX570 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.

IP Filtering

With IP filtering, access to the SNC-RX570 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.

Technical Specifications

Camera	
Image device	1/4-type Exwave HAD CCD
Number of effective pixels	440,000 (752 x 582)
Electronic shutter	1 to 1/10,000 s
Gain control	Auto/Manual (-3 dB 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 auto, ATW/Manual
Lens type	Auto-focus zoom lens
Zoom ratio	36x optical zoom (432x with digital zoom)
Horizontal viewing angle	2.2 to 54.2 degrees
Focal length	f=3.5 to 91.0 mm
F-number	F1.6 (wide), F3.8 (tele)
Minimum object distance	320 mm (wide),1,500 mm (tele)
Pan angle	360 degree endless rotation
Pan speed	300 degree/s (max.)
Tilt angle	-90 to 0 degrees
Tilt speed	300 degrees/s (max.)
Other functions	Day/Night, Intelligent Motion Detection, Intelligent Object Detection, Anti-tampering, Image stabilizer, Position preset

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 : 25 fps (640 x 480) H.264 : 8 fps (640 x 480)

Audio	
Audio compression	G.711/G.726 (40, 32, 24, 16 Kb/s)

Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP
Number of clients	20

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
Analog video output	BNC x1, 1.0 Vp-p, 75 Ω
External microphone input	Mini-jack (monaural, 2.2 K2.5 V plug-in power)
Audio line output	Mini-jack (monaural), max output level: 1 Vrms

Analog video output	
Signal system	PAL (Composite)
Horizontal resolution	460 TV lines
S/N ratio	50 dB
Min. illumination	Color: 1 lx (50IRE, F1.6, AGC ON), B/W: 0.15 lx (50IRE, F1.6, AGC ON)

General	
Power consumption	25 W max.
Operating temperature	0 to 50 °C (32 to 122 °F)
Storage temperature	-20 to 60 °C (-4 to 140 °F)
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)
Body color	Black
Power requirements	AC 24 V/DC 12 V

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.5.5 or 6.0

Supplied Accessories	
	Ceiling-mount bracket (A)
	Ceiling-mount bracket (B)
	Screws
	Wire rope
	CD-ROM (setup software)
	Operation manual
	Installation manual

Accessories

Housings

SNCA-HRX550-INT

Indoor dome camera housing

SNCA-HRX550-PRE

Outdoor Pressurized dome camera housing

SNCA-HRX550EXT

Outdoor dome camera housing

SNCA-HRX550EXT-R

Outdoor vandal resistant dome camera housing