SONY

Pan/Tilt Zoom Network Video Camera

All-In-One PTZ Network Camera

The SNC-RZ25P is equipped with a 100Base-TX/10Base-T network interface and a built-in web server, allowing you to configure the unit in any TCP/IP network. To run the unit, all that is needed is a PC running a web browser*[1] and a network environment; no additional software is required. The SNC-RZ25P is PTZ-capable with a pan range of 340°, a tilt range of 120°, plus an 18x optical zoom capability.

*1 Requires Microsoft® Windows® 98 or higher operating system and Microsoft Internet Explorer 5.5 or higher web browser.

High-Quality Images

Employing a 1/4-type ExwaveHAD CCD, the SNC-RZ25P delivers exceptional picture quality for your remote monitoring applications. Furthermore, because the minimum illumination level is 0.7 lx at F 1.4, the SNC-RZ25P operates extremely well even in low-light conditions.

'Day/Night' Function

The SNC-RZ25P 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 camera switches to B/W mode, requiring a minimum illumination of less than 0.01 lx. Three modes can be set: automatic, manual, or a timer mode.

Selectable MPEG-4 or JPEG Compression Formats

The SNC-RZ25P uses the MPEG-4 compression format to achieve high-compression ratios without sacrificing image quality. MPEG-4 allows smooth moving images to be streamed over a wide range of bandwidths so users can monitor high-quality moving images with minimal delay — even over limited bandwidths. The SNC-RZ25P supports variable bit rates up to 2 Mb/s.

Transmission protocols (TCP or UDP) and image size can be selected to meet your network environment and application requirements. The following image sizes are selectable: 640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, and 160 x 120.

If higher quality still images are preferred, then the industry-standard JPEG compression format can be selected from the setup menu.

High Frame Rate

The SNC-RZ25P produces images at a maximum frame rate of 25 fps*[2] when the image size is 320 x 240 in both MPEG-4 and JPEG modes, producing clear and smooth-moving images. The frame rate can be fixed or set to a variable rate that automatically adjusts to the available bandwidth.

*2 In order to view images at the maximum frame rate, adequate PC processing power and network bandwidth are required.

Bi-Directional Audio

The SNC-RZ25P supports both ITU-T G.711 and G.726 audio compression standards. Equipped with a microphone input, the SNC-RZ25P can be configured with a microphone so that audio, including sound from distant objects, can be monitored at the camera site. The unit is also equipped with an audio line output for active speakers. Using these speakers, users can send an alert or make an announcement, significantly expanding the possibilities for remote monitoring applications.

Alarm Functions

Motion Detection/Alarm Trigger

The SNC-RZ25P is equipped with a built-in motion detection function that can generate an alarm through its alarm-output port or trigger another device to perform a variety of actions. The motion-detection function uses vector information so that unwanted noise components do not accidentally trigger the alarm. In addition to these features, the SNC-RZ25P is equipped with a sensor-input port that can receive a trigger from an external sensor.

Pre-/Post-Alarm Image Storage

With its built-in buffer memory, the SNC-RZ25P can store several seconds of pre-alarm and post-alarm images when the motion detector, the sensor input, or both trigger an alarm.

Maximum Image Storage Capacity

(Definable from the Setup Menu)
MPEG-4 Compressed Images: Approx. 30 seconds*
(pre-/post- 15 sec).
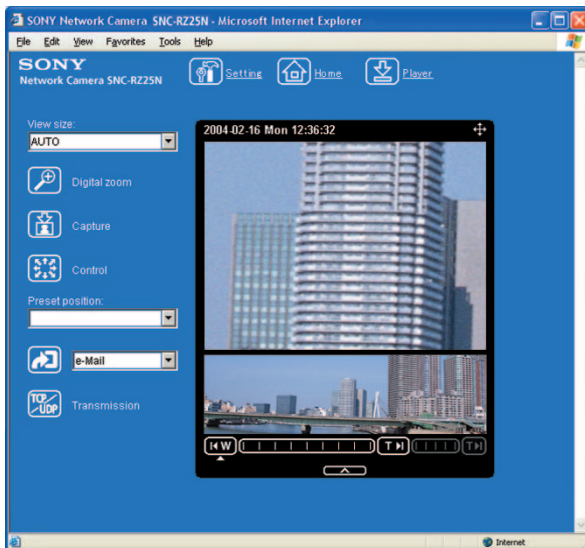* when image size is 320 x 240 at 25 fps and 512 kbps

JPEG Compressed Images: Approx. 10 seconds*
(pre-/post- 5 sec).
* when image size is 320 x 240 at 15 fps and image quality is set to Level 3

Image transfer using FTP/SMTP*[3]

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. A still image at the time of an alarm event can also be sent to a designated e-mail address.

*3 All transferred images are in JPEG format. MPEG images are converted to JPEG before being transferred.

SNC-RZ25 Viewer

User-Friendly GUI

The SNC-RZ25P has a user-friendly GUI accessible via a PC running the Microsoft® Internet Explorer® browser software. Setup is very easy with the 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 centered. 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.

Direct Pointing in Panorama View

The SNC-RZ25P can also be controlled by clicking on the panorama*4 image. Selecting an area on the panorama view will centre that area in the monitor.

*4 The panorama view is a still image. The SNC panorama creator (supplied software) must be run to generate the panorama image.

Compatible with RealShot Manager*

RealShot™ Manager is a powerful, easy-to-use management platform that provides total control over a complete network of cameras and video servers. Recordings can be searched by time/date, alarm events or inserted comments. Camera settings can be adjusted according to user needs and Pan-Tilt-Zoom control of Sony cameras is afforded by the intuitive interface. On-screen layouts can be readily customised to give the user convenient access to multiple cameras.

* Requires RealShot Manager version 3.1 or higher.

Network Features

Adaptive Rate Control

In order to control QoS (Quality of Service) levels over a network, the SNC-RZ25P employs an adaptive rate control function. This function automatically varies the video bit-transfer rate to meet changing network conditions. Adaptive rate control also selects the most appropriate frame rates, preventing audio and video breakup.

Simultaneous Access

Up to 20 users in JPEG mode or 10 users in MPEG-4 mode can simultaneously access the SNC-RZ25P and monitor images separately.

Multicasting Capability

The SNC-RZ25P has a built-in multicasting capability. 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-RZ25P 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 four levels of access. The administrator has complete access/control of the cameras, while the other three levels of access can be set to limit user privileges to functions such as PTZ control, viewing, and trigger control.

Analogue Composite Video Output

The SNC-RZ25P can output an analogue composite video signal via the BNC connector on the unit's rear panel. This feature is ideal for sending signals to a local recording device or video monitor.

Flexible Installation (Desktop or Ceiling-Mountable)

A unique feature that 'flips' images enables the SNC-RZ25P to be placed on either a flat surface (desktop) or ceiling mounted. Images are output right-side-up regardless of the orientation of the unit. Unlike other products that require separate models for ceiling and desktop applications, this single model is all that is necessary when installing your network camera system.

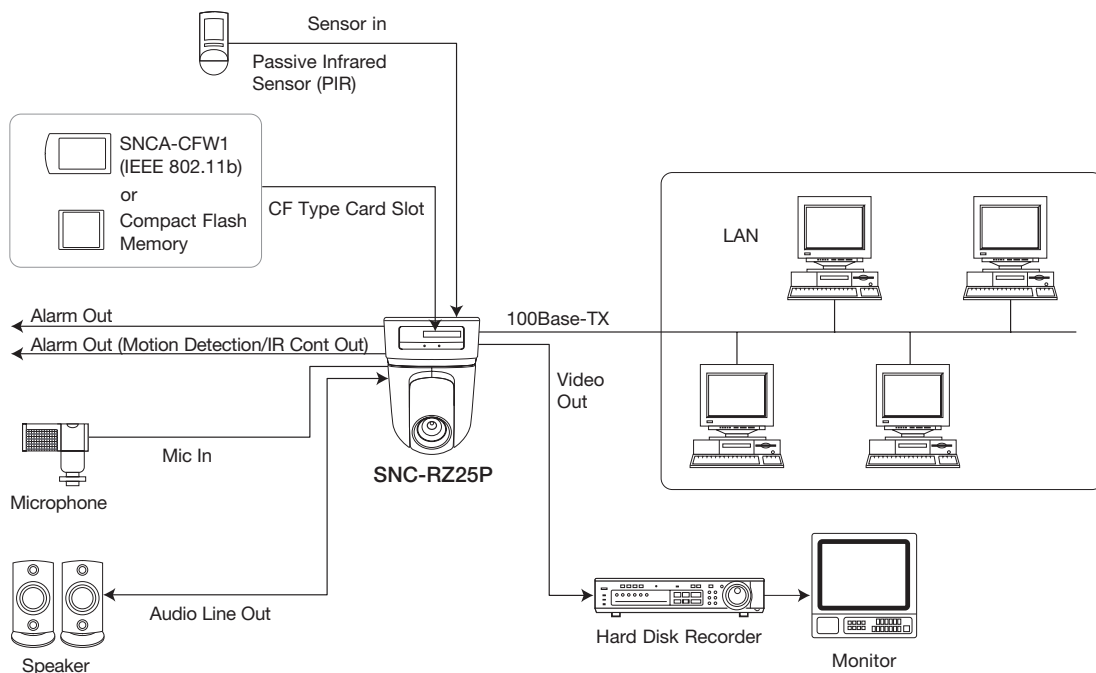## Compact Flash™ (CF) Type Card Slot/Wireless Capability

A built-in expansion slot for Compact Flash cards is integrated into the SNC-RZ25P, enabling you to store additional images on CF media as required.

You can also opt to install the SNC-RZ25P in a wireless network to avoid unsightly wires, as the CF type card slot can accept the optional SNCA-CFW1 Wireless Card. This card is IEEE 802.11b compliant.

Compact Flash™ (CF) Type Card Slot

▶ System Configuration

Effective and Efficient Network Video Monitoring – MPEG-4 or JPEG Compression and PTZ (Pan/Tilt/Zoom) in a Single Package

Introducing the Sony SNC-RZ25P, MPEG-4/JPEG network camera with PTZ capability. Packaged in a sleek and stylish body, the SNC-RZ25P is ideal for webcasting and remote-monitoring applications almost anywhere – from airports to train stations, factories to supermarkets, and from street corners in small towns to big sports arenas.

Remote video monitoring over a network has never been easier. With the SNC-RZ25P, setup is simple and more cost effective than conventional CCTV systems. This is because the network infrastructure is often already in place or it is rapidly becoming standard for new building construction. Once the network connection is established, images from the camera can be efficiently streamed over the network. MPEG-4 is particularly suitable for streaming images over limited bandwidths. If higher-quality still images are required, then the industry-standard JPEG compression is available. The SNC-RZ25P also has PTZ capability, allowing camera movements and the 18x optical zoom to be controlled from a PC using a standard web browser or Sony RealShot™ Manager management software (v. 3.1 or higher). The web browser viewer has a unique feature that allows you to control the camera simply by clicking on the panorama image.

Packed full of features including a 'Day/Night' function, audio monitoring, optional wireless LAN connection, alarm functions and more, the SNC-RZ25P is the perfect MPEG-4 PTZ network camera for your remote monitoring and webcasting applications.

Specifications

SNC-RZ25P

Camera

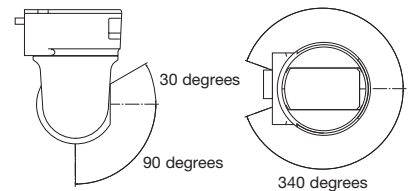|		
Image device		1/4 type CCD imager (ExwaveHAD Technology)
No. of effective pixels		444,000 pixels
		752 (H) x 582 (V)
Zoom ratio		18x optical zoom (216x with digital zoom)
Focal length		f=4.1 mm to 73.8 mm
F-number		F1.4 (wide), F3.0 (tele)
Iris		Auto/Manual (F1.4 to close)
Minimum illumination		Colour: 0.7 lx (50IRE, F1.4: AGC on)
Minimum object distance		300 mm (wide), 800 mm (tele)
Pan angle		-170 to +170 degrees
Tilt angle		-90 to +30 degrees
Other functions	Day/Night	Automatic, manual or timer mode
	Image Flip	Yes
	Motion Detection	Yes

Image

Image size	640 x 480, 480 x 360, 384 x 288
(both JPEG and MPEG-4)	320 x 240, 256 x 192, 160 x 120
Compression format	MPEG-4/JPEG (selectable)
Maximum frame rate	JPEG: 25 fps (320 x 240)
	18 fps (640 x 480)
	MPEG-4: 25 fps (320 x 240)
	15 fps (640 x 480)

Audio

Compression format (Audio IN/OUT)	G.726 (40,32,24, 16 Kb/s), G.711 (64 Kb/s)

Network

Protocols	IP(IPv4), ICMP, ARP, TCP/UDP, RTP/RTCP, SNMP (MIB-2) DHCP client, NTP client, DNS client, HTTP, FTP, SMTP client
Number of clients	10 (MPEG-4), 20 (JPEG)

Interfaces

Ethernet	10Base-T/100Base-TX (RJ-45)
Serial interface	RS-232C (Transparency function or VISCA protocol)
I/O ports	Sensor in x 2, Alarm out x 2
Card slot	Compact Flash (for SNCA-CFW1 IEEE802.11b Wireless Card or Compact Flash memory card)
Analogue video output	BNC x1, composite video 1.0 Vp-p, 75 Ω
External microphone input	Mini-jack, 2.4 V DC plug-in power, 4.7 KΩ
Audio line output	Mini-jack (mono), Max output level: 0.9 Vrms

Analogue video output

Signal system	PAL (Composite)
Horizontal resolution	More than 460 TV lines
S/N ratio	More than 50 dB

General

Mass	1.3 kg (2 lb 14 oz)
Dimensions (W x H x D)	140 x 206 x 148 mm (5 5/8 x 8 1/8 x 5 7/8 inches)
Power requirements	DC 12 V or AC 24V
Power consumption	17 W max.
Operating temperature	0 °C to + 40 °C (32 °F to 104 °F)
Storage temperature	-20 °C to + 60 °C (-4 °F to 140 °F)
Operating humidity	20% to 80% Non-condensing
Storage humidity	20% to 95% Non-condensing

Supplied accessories

Ceiling mount kit, CD-ROM (user guide, set up and SNC panorama creator software), Installation manual

System requirements

Operating system	Windows 2000/XP
Browser	Microsoft Internet Explorer Ver 5.5/6.0

OPTIONAL ACCESSORIES

SNCA-CFW1
Wireless Card

SNCA-AN1
Wireless LAN Antenna
(for use with SNCA-CFW1 Wireless Card)

PAN/TILT RANGE

30 degrees
90 degrees
340 degrees

REAR PANEL

SONY

SONY EUROPE

www.sonybiz.net/networkvideo