



SNC-RZ50P

Intelligent All-in-one IP network camera with integrated pan/tilt/zoom

The SNC-RZ50P



The SNC-RZ50P is an intelligent Pan/Tilt/Zoom camera. Building on the performance and versatility of the best-selling SNC-RZ30P, the SNC-RZ50P offers increased functionality that allows users to benefit from intelligent monitoring in a wide range of surveillance applications. The intelligent motion detection and intelligent object detection improve workflow and are the largest single differentiator in the new platform of network cameras.

Additional improvements include Dynamic Frame Integration, which captures moving and static objects in a precise way, while retaining superior sensitivity. The inclusion of a Public Key Infrastructure (PKI) chip and dual video codecs open new possibilities and allow Sony products to bring even more to monitoring systems.

UPDATE: This product can be upgraded to support Sony Intelligent Video Analysis using a free firmware upgrade.

Features

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.

Anti-tampering

The SNC-RZ50 incorporates a security chip that generates a digital signature for a group of picture frames. The digital signature is encrypted with PKI scheme. By saving the picture frames and the digital signature in pairs in recording software, the software can prove that the picture is original (without any tampering) and received from a specific camera.

Dynamic frame integration

The SNC-RZ50P incorporates Dynamic Frame Integration to optimize the resolution for both

stationary and moving subjects, while retaining high sensitivity. Traditionally field or frame integration can be chosen to optimise image capture of either stationary details or moving objects. The SNC-RZ50P uses frame integration and then dynamically assigns field integration mode only on the moving objects. In this way Dynamic Frame Integration reproduces both moving and stationary objects well, with higher sensitivity than for example progressive scan.

Spherical privacy zone masking

With Privacy Zone Masking you can mask unwanted or prohibited area within the sight to protect privacy. The masking locks on the designated spot even in PTZ control by 3-dimensionally tracking the position according to PTZ motion. Up to 8 masking can be set with SNC Privacy Masking Tool supplied in the CD-ROM from version 1.1 firmware.

Benefits

Pan, tilt and 26x optical zoom

The SNC-RZ50 incorporates pan, tilt and 26x optical zoom capability to provide large field of view and a combination of overview and detail. With a

pan and tilt speed of 300 degree per second, you can move to a desired area instantaneously. Up to 16 preset positions can be set with return accuracy of ± 0.064 degree.

"Day/Night" function

With the use of Day/Night function, the SNC-RZ50 offers high sensitivity (Minimum illumination 0.3lx) 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.

Technical Specifications

--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)
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--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, CF card x1
Analog 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 K 2.5 V plug-in power)
Audio line output	Mini-jack (monaural), max output level: 1 Vrms

--Analog video output--

Signal system	PAL (Composite)
Horizontal resolution	450 TV lines
S/N ratio	more than 50 dB
Min. illumination	Color: 2.2 lx (50IRE, F1.6, AGC ON), B/W: 0.3 lx (50IRE, F1.6, AGC ON)

--General--

Mass	1.2 kg (2 lb 10 oz)
Dimensions (W x H x D)	140 x 166 x 142 mm (5 5/8 x 6 5/8 x 5 5/8 inches)
Power requirements	DC 12 V
Power consumption	20 W max.
Operating temperature	0 to 40 °C (32 to 104 °F)
Storage temperature	-20 to 60 °C (-4 to 140 °F)

--System requirements--

Operating system	Microsoft (R) Windows (R) 2000/XP
Processor	CPU: Intel (R) Pentium (R) IV 1.5 GHz or higher
Memory	RAM: 256 MB or more
Web browser	Microsoft Internet Explorer (R) Ver. 6.0

--Camera--

Image device	1/4-type Super HAD CCD
Number of total pixels	740,000
Number of effective pixels	400,000 (702 x 575)
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 WB, ATW, Manual
Lens type	Auto-focus zoom lens
Zoom ratio	26x optical zoom (312x with digital zoom)
Horizontal viewing angle	1.7 to 42.0 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	-170 to +170 degrees
Pan speed	300 degrees/s (max.)
Tilt angle	-90 to +25 degrees
Tilt speed	300 degrees/s (max.)
Other functions	Day/Night, Intelligent Motion Detection, Intelligent Object Detection, Anti-tampering, Image stabilizer, Image Flip, Position preset

Supplied Accessories

Rubber feet
 Plug retainer
 Shoulder screw
 Mount bracket cover
 Installation manual
 AC cable
 AC adaptor
 CD-ROM (setup software, operation manual)
 Wire rope
 Screws
 Ceiling-mount bracket (B)
 Ceiling-mount bracket (A)