

SONY

SNC-P1

Network Video Camera



Network video cameras have moved on.
Have you?



You make it a Sony



Enter the World of Network Video Monitoring with the **Sony SNC-P1**



► The All-in-One Network Video Camera

Sony introduces its new SNC-P1 MPEG-4/JPEG colour network video camera, opening unlimited possibilities to an extensive range of network video monitoring applications. Responding to the growing demand for an affordable and easy-to-use network video camera, the SNC-P1 offers a cost-effective solution for a broad range of remote monitoring applications such as retail, offices, manufacturing lines and web casting.

In addition to the industry-standard JPEG compression format, the SNC-P1 utilises the efficient MPEG-4 compression format, which provides smooth video/audio streaming via ordinary broadband network environments such as DSL or CATV. And, thanks to the high compression ratio of the MPEG-4 format, the SNC-P1 can achieve a high frame rate of up to 30 fps* – even when bandwidth is limited.

With its built-in web server, images can be viewed and managed from a PC running a standard web browser. The SNC-P1 also features audio capability with a built-in microphone, external microphone input and audio line output, which significantly expands its range of applications. What's more, the SNC-P1 network video camera incorporates a variety of convenient features – including slow shutter, motion detection, pre/post-alarm function, and multicasting capability – to fully support your remote monitoring and web-casting operations. With its network functionality and a variety of convenient features, the Sony SNC-P1 makes remote monitoring easier, closer, and more affordable than ever before.

* In order to achieve the maximum frame rate, adequate PC processor power and network bandwidth are required.

► Features

All-in-One Network Video Camera

The SNC-P1 incorporates a 1/4-type progressive scan CCD, built-in microphone, and 100Base-TX/10Base-T (RJ-45) network interface in a compact and stylish body. With its built-in web server, the SNC-P1 allows users to monitor images and manage the camera on a PC running a standard web browser; no additional software is needed.

MPEG-4 Compression Format

The SNC-P1 utilises the MPEG-4 compression format that achieves high-compression ratios, allowing smooth moving images to be streamed over a wide range of bandwidths. Because of its high-compression ratios, users can monitor high-quality moving images with low delay- even at low bandwidths. The transmission mode (TCP or UDP) and image size can be selected according to the network environment and application requirements. Image size can be selected from six modes: 640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, and 160 x 120. What's more, the SNC-P1 supports variable bit rate of up to 2 Mbps, providing great quality images.

JPEG Compression Format

In addition to the MPEG-4 compression format, the SNC-P1 employs the industry-standard JPEG compression format. The image size can be selected from six modes: 640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192 and 160 x 120.

High Frame Rate

The SNC-P1 produces images with a maximum frame rate of 30 fps at 320 x 240 size in both MPEG-4 and JPEG modes, allowing clear and smooth images to be viewed. The frame rate can be fixed or set to a variable rate that automatically adjusts to the available bandwidth.

Audio Monitoring

Incorporating a built-in microphone and an external microphone input, the SNC-P1 allows users to also monitor audio. Used with an external microphone, the SNC-P1 is capable of picking up sound from distant objects clearly. The unit is also equipped with an audio line output for active speakers; users can send an alert or make an announcement at the camera site through speakers.

The audio quality of this product significantly expands the possibility of remote monitoring applications.

Network Features

Adaptive Rate Control

To implement Quality of Service (QoS) technology on the network, the SNC-P1 provides an adaptive rate control function. This automatically varies the bit rate of audio and video data corresponding to changing network conditions and selects the most appropriate frame rates. This function helps prevent audio and video breakup.

Multicasting Capability

The SNC-P1's built-in multicasting capability enables efficient video and audio streaming to a large number of users.

Simultaneous Access

Up to 20 (JPEG mode)/10 (MPEG-4 mode) users can simultaneously access the SNC-P1 and monitor images separately.



Audio Monitoring – Viewer



▶ Features

Network Security Features

IP Filtering

With IP filtering, access to the SNC-P1 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 three levels of access. The administrator has complete access and control of the cameras, while the other three levels of access can be set to limit user privileges to functions such as viewing, trigger control, etc.

Alarm Functions

Motion Detection/Alarm Trigger

The SNC-P1 is equipped with a built-in motion detection function that can generate an alarm through an alarm-output port or trigger various actions. Unlike conventional activity detection, the SNC-P1 uses vector information to detect motion, achieving robustness against noise components. The SNC-P1 is also equipped with a sensor-input port that can receive a trigger from an external sensor.

Pre-/Post-Alarm Image Storage

With the built-in buffer memory, the SNC-P1 can store several seconds of pre-alarm and post-alarm still images when an alarm is triggered by the motion detection, the sensor input, or both.

Image storage capacity:

MPEG 4 image: Approx. 30 s* (pre-/post- 15 s)

* when the image size is 320 x 240 at a frame rate of 30 fps and a bit rate of 512 kbps

JPEG image: Approx. 10 s* (pre-/post- 5 s)

* when the image size is 320 x 240 at a frame rate of 15 fps and the image quality is set to Level 3

Image Transfer Using FTP/SMTP

The pre-/post-alarm images stored at the time of an alarm event can be transferred to an FTP server for later viewing. Also, when the unit is set to JPEG mode, still images can be sent to a specified e-mail address, enabling the user to view images that were shot at the time of the alarm.

User-Friendly Controls

The SNC-P1 has been designed with special care to ensure simple operation. Setup parameters are organised in a two-layer menu system, categorised into an Easy Mode and an Advanced Mode. Easy Mode allows access to only the standard setup functions, while Advanced Mode allows access to all setup functions. Settings can be easily adjusted using a user-friendly GUI on the PC monitor.



Setup Viewer – Easy mode



Setup Viewer – Advanced mode

Flexible Installation

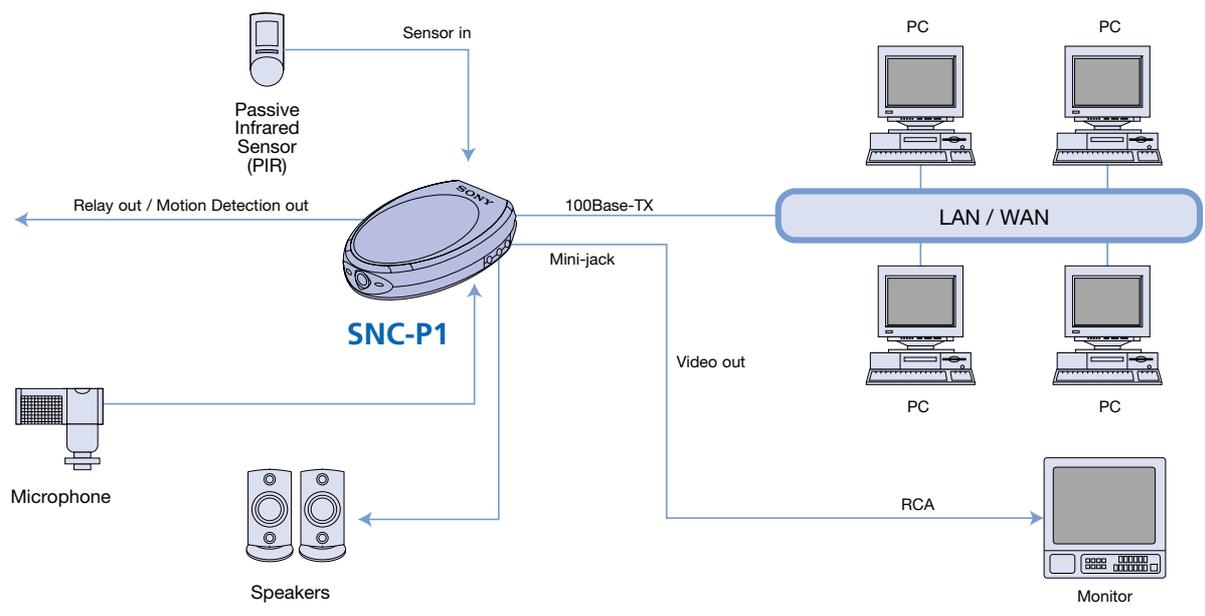
The SNC-P1 can be placed on a desktop, wall-mounted, or ceiling-mounted with the supplied camera stand. Incorporating an electronic 'Image Flip' function, the SNC-P1 displays the image for proper upright viewing regardless of the camera's orientation.

Analogue Composite Video Output

The SNC-P1 has an analogue composite video output from the mini-jack connector located on its side panel. This allows camera images to be directly recorded or monitored by connecting video equipment such as time-lapse recorders, hard disk recorders, multiplexers, and monitors.



System Configuration



Ceiling Mounted



Wall Mounted



Side panel

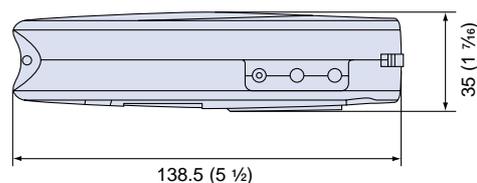
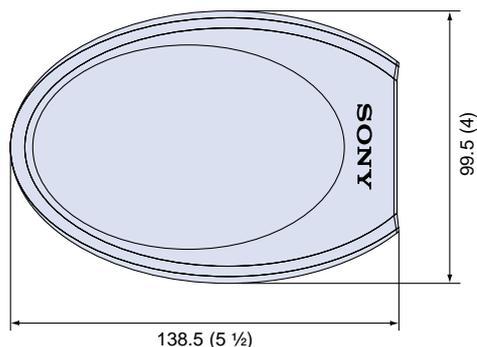
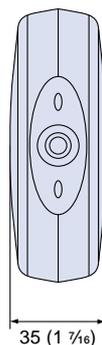


Rear panel

SNC-P1 Specifications

Camera	
Image device	1/4-type progressive scan CCD
Number of effective pixels	659 x 494 (H x V)
Electronic shutter	1 to 1/10000 s
Slow shutter	1, 1/2, 1/4, 1/8, 1/15, 1/30 s (On/Off selectable)
Exposure mode	Auto, Shutter priority, Manual
White balance	Auto, Indoor, Outdoor, One-push, Manual
Gain	0, 6, 12, 18 dB
Minimum illumination	3.0 lx
Lens	
Type	Fixed focal lens
Focal length	f=3.8 mm
Viewing angle	Horizontal: 53.4°, Vertical: 40.0°
F-number	F2.0
Minimum object distance	50 cm
System / Network	
Compression format	MPEG-4, JPEG
Image size (H x V)	
MPEG-4 mode	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
JPEG mode	640 x 480, 480 x 360, 384 x 288, 320 x 240, 256 x 192, 160 x 120
Maximum frame rate	
MPEG-4 mode	Max. 30 fps, 320 x 240, Max. 15 fps, 640 x 480
JPEG mode	Max. 30 fps, 320 x 240, Max. 18 fps, 640 x 480
Audio compression	G.711 (64 Kbps)/G.726 (40, 32, 24, 16 Kbps)
Number of clients	
MPEG-4 mode	10 clients
JPEG mode	20 clients
Protocols	TCP/IP, UDP, RTP, RTCP, ARP, ICMP, HTTP, FTP, SMTP, DHCP, DNS, NTP, and PPPoE, SNMP
Interface	
Ethernet	100Base-TX/10Base-T (RJ-45)
Video output	Mini-jack
Built-in microphone	Electret condenser microphone
External microphone input	Mini-jack, Plug-in power, 2.2 K Ω , Unbalanced
Line output	Mini-jack
Sensor in	1
Alarm out	1
General	
Mass	Approx. 225 g (8 oz)
Dimensions (W x H x D)	99.5 x 35 x 138.5 mm (4 x 1 7/16 x 5 1/2 inches) without projection
Power requirements	DC 12 V
Power consumption	3.5 W
Operating temperature	0 to +35 °C (32 to 95 °F)
Storage temperature	-20 to +60 °C (-4 to +140 °F)
Operating humidity	20 to 80%, non-condensing
Storage humidity	20 to 95%, non-condensing
Supplied accessories	AC adaptor (x1) CD-ROM (x1, setup program and user guide) Stand (x1)

Dimensions mm (inches)



System Requirements

Operating system and web browser

Operating system	Microsoft® Windows® 2000/XP
Processor	Intel® Pentium® III, 1 GHz or higher (Recommendation: Pentium IV, 2 GHz or higher)
Memory	256 MB RAM minimum
Web browser	Microsoft Internet Explorer® version 5.5 or 6.0

© 2004 Sony Corporation. All rights reserved. Reproduction in whole or in part without written permission is prohibited. Features and specifications are subject to change without notice. All non-metric weights and measurements are approximate. Sony, MMStation and ISR are trademarks of Sony. All other trademarks are the property of their respective owners.
CA SNC-P1/GB- / /2004

SONY

SONY EUROPE

www.sonybiz.net