



## Video Network Camera

Amazing picture quality in such an affordable and compact package – the ideal video network camera for remote monitoring. The new Sony SNC-CS3P CS-mount, fixed network colour camera is the latest addition to Sony's growing line-up of network cameras which are ideally suited for surveillance, remote monitoring, and web-casting applications.

Designed specifically to meet the demand for a high-quality and affordable network camera, the SNC-CS3P combines high performance with value added features such as built-in activity detection, all in a compact body. This new camera incorporates a 1/3 type IT CCD with Exwave HAD™ technology for superb picture quality and high sensitivity (minimum illumination of 0.5 lx (at F1.0, 50 IRE) and horizontal resolution of 480 TV lines). Just like Sony's other network cameras, the SNC-CS3P uses the industry-standard JPEG compression format for efficient distribution over a network and features analogue output for local monitoring and recording. The high maximum frame-rate transmission of 25 fps at VGA resolution (640 x 480) allows for smooth viewing of high-quality images.

It also features a CS-mount that allows for the ability to change the lens to suit the various viewing requirements and comes equipped with an auto iris, vari-focal lens (f=3.0 to 8.0 mm, F1.0). Additionally, its built-in web server allows images to be viewed and controlled from a PC running a standard web browser or the optional Sony IMZ-RS Series Monitoring Software.

With its high performance and network capability, the Sony SNC-CS3P is the ideal choice where sensitivity is required. The SNC-CS3P camera makes remote monitoring easy and affordable.



### Main Features

- Remote Monitoring / Control Over Networks
- High Frame Rate
- Network Security Features
- High Picture Quality
- Supplied High-Performance Vari-Focal Lens
- Selectable Image Quality and Size
- Backlight Compensation (BLC)
- Alarm Function
- Versatile Interfaces



# SNC-CS3P



Optional IMZ-Series Monitoring Software

## Features

### Remote Monitoring / Control Over Networks

The SNC-CS3P is equipped with a 100Base-TX/10Base-T (RJ-45) interface and a built-in web server. This allows a PC running a standard web browser to monitor live images and control the camera without the need for additional software or plug-ins. Up to 50 simultaneous users can access and monitor the images of a single SNC-CS3P camera. And, by installing the optional IMZ-RS Series Intelligent Monitoring Software, up to 32 cameras can be simultaneously monitored, recorded and controlled from a single PC.

### High Frame Rate

The SNC-CS3P produces images with a maximum frame rate of 25 fps, allowing for clear and smooth frame-accurate images to be viewed. The frame rate can be fixed or set to a variable rate that automatically adjusts to the available bandwidth.

### Network Security Features

#### IP Filtering

Using the IP-filtering feature, access to the SNC-CS3P 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. Setting these groups restricts access to the camera to the defined IP-address range, while denying access to all other addresses.

#### Password Protection

User names and passwords can be assigned to allow four levels of access. The administrator has complete access/control of the camera, while the other three levels of access can be set to limit user privileges to functions such as viewing, trigger control, etc.

### High Picture Quality

The SNC-CS3P incorporates a 1/3 type IT (Interline Transfer) CCD with Exwave HAD technology that offers superb high picture quality with excellent sensitivity. The SNC-CS3P achieves a horizontal resolution of 480 TV lines and a minimum illumination of 0.5 lx (at F1.0, 50 IRE).

### Supplied High-Performance Auto Iris

#### Vari-Focal Lens

The SNC-CS3P is supplied with a CS-mount, vari-focal lens with auto iris function, which covers the frequently-used horizontal viewing angle of 91 to 36 degrees. The maximum aperture of F1.0 provides remarkable image quality even in low-light conditions. While this viewing range should cover the majority of application requirements, the user has the option of using a specific focal length to suit his viewing requirements with the CS-mount.

#### Selectable Image Quality and Size

The SNC-CS3P provides the flexibility to select image quality and image size according to network bandwidth. Employing the industry-standard JPEG compression format, the SNC-CS3P has a selectable compression ratio within the range of 1/5 to 1/60. Also, the image size can be selected from four modes: 736 x 544, 640 x 480, 320 x 240, and 160 x 120.

#### Backlight Compensation (BLC)

The Backlight Compensation (BLC) function helps to overcome severe backlighting situations, which can often cause the subject of an image to be cast into a shadow. The image brightness can be set to automatically compensate for adverse lighting conditions.



Rear Panel





## Alarm Function

### Activity Detection/ Alarm Trigger

The SNC-CS3P is equipped with built-in activity detection that can be set to generate an alarm output through alarm-output ports.

If a change in luminance level is detected in a selectable area of the field of view, an alarm is automatically triggered. In addition, the SNC-CS3P is equipped with an alarm-input port that can receive a trigger from an external sensor.

### Pre- / Post-Alarm Image Storage

With the built-in 8 MB buffer, the SNC-CS3P can store hundreds of pre-alarm and post-alarm still images at the time an alarm is triggered from the activity detection, the alarm input or both.

### 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. Still images can also be sent as JPEG attachments to a specified e-mail address, enabling the user to see what happened when an alarm occurred.

## Versatile Interfaces

### Analogue Composite Video Output

For integration with existing CCTV installations the SNC-CS3P has an analogue composite video output from the BNC connector located on its rear panel. Like conventional analogue cameras, the SNC-CS3P allows the camera images to be directly recorded or monitored by connecting video equipment such as time-lapse recorders, hard disk recorders, multiplexers, and monitors.

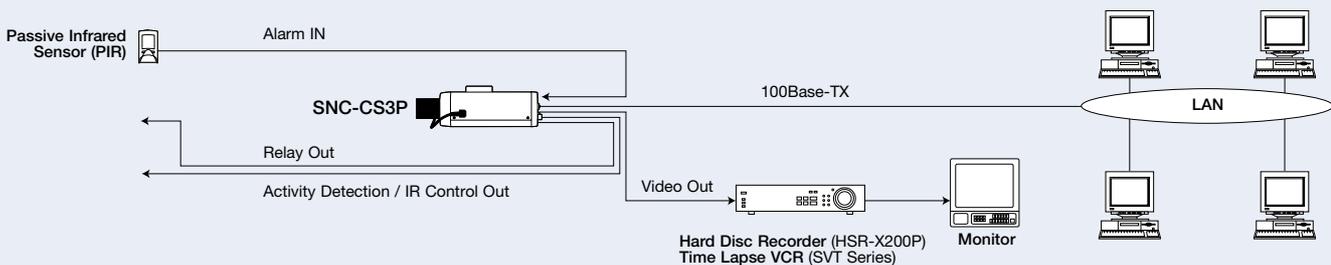
### RS-232C Interface

The SNC-CS3P has a transparency function available via the RS-232C interface. This allows external equipment or sensors connected to the RS-232C port of the SNC-CS3P network camera to be controlled or monitored from the PC over the network.

### AC 24 V or DC 12 V Operation

The SNC-CS3P offers a choice of two power supplies: AC 24 V or DC 12 V. The camera's power system automatically adapts to the supplied power.

Sample System Configuration



# SNC-CS3P Specifications

## Camera

Image device	1/3 type Interline Transfer CCD with Exwave HAD technology
Number of effective pixels	752 (H) x 582 (V)
Electronic shutter	1/60 to 1/10,000 s
Exposure mode	Auto iris lens, CCD iris, Manual
White balance	Auto, ATW, Indoor, Outdoor, One-push, Manual
AGC	Normal/Turbo
Backlight compensation	ON/OFF
EV compensation	-1.75 to +1.75 EV (15 steps)

## Lens

Type	CS-mount DC iris Vari-focal lens
Focal length	f = 3.0 mm to 8.0 mm
Horizontal viewing angle	91° to 36°
F-number	F1.0 to F1.4
Minimum object distance	200 mm

## System / Network

CPU32-bit RISC processor	
RAM	32 MB (includes 8 MB alarm buffer)
Flash memory	8 MB
Image size (H x V)	736 x 544, 640 x 480, 320 x 240, 160 x 120
Compression	JPEG
Compression ratio	1/5 to 1/60 (10 steps)
Frame rate	Max. 25 fps (640 x 480)
Protocols	TCP/IP, ARP, ICMP, HTTP, FTP, SMTP, DHCP, DNS, NTP, and SNMP

## Interface

Ethernet	100Base-TX/10Base-T (RJ-45)
Video output	Analogue composite (BNC x 1), 1.0 Vp-p, 75 Ω, unbalanced, sync negative
Sensor in	1
Alarm out	2
Serial interface	RS-232C (for transparency function)

## Analogue video output

Signal system	PAL
Sync system	Internal
Horizontal resolution	480 TV lines
S/N ratio	More than 50 dB (AGC OFF, Weight ON)
Minimum illumination	0.5 lx (F1.0, 50 IRE, Slow shutter OFF)

## General

Mass	650 g (1 lb 7 oz) including lens
Dimensions (W x H x D)	70 x 57 x 199 mm (2 7/8 x 2 1/4 x 7 7/8 inches) including lens
Power requirements	DC 12 V or AC 24 V
Power consumption	8 W
Operating temperature	-10 °C to +50 °C (14 °F to 122 °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	CD-ROM (x 1, setup program and user's guide), Wire rope (x 1), Shoulder screw M4 (x 1), Installation manual (x 1), vari-focal lens (x 1)

## System requirements

### OPERATING SYSTEM AND WEB BROWSER

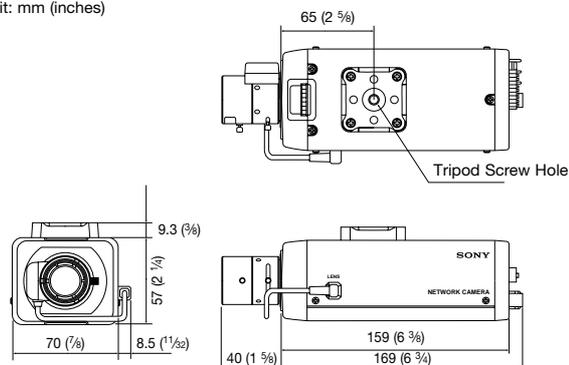
Operating system	Microsoft® Windows® 98 / 98SE / ME / NT4.0 / 2000/XP
Processor	Intel® Pentium® III, 500 MHz or higher (Intel Pentium 4, 1 GHz or higher recommended)
Memory	128 MB RAM minimum
Web browser	Microsoft Internet Explorer version 5.5 or 6.0
Display	1024 x 768, true colour or more

### SYSTEM REQUIREMENTS FOR THE PC RUNNING IMZ-RS SERIES SOFTWARE

Operating system	Microsoft Windows 2000 / XP
Processor	Intel Pentium 4, 2.4 GHz or higher
Memory	256 MB RAM minimum
Video card	Supporting 1024 x 768 at 16/24 bits colour depth
Network Interface Card	Ethernet 10Base-T/100Base-TX
Sufficient video storage (local PC hard disk or Network Attached Storage)	

## Dimensions

Unit: mm (inches)



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