



#### FIXED IP CAMERA WITH 18x ZOOM LENS SNCZ20P

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With a variety of network-ready products, Sony is leading the way into the new world of network-based surveillance and monitoring applications. The SNC-Z20P incorporates a highly sensitive 1/4 type CCD with Exwave HAD technology for superb picture quality. Images are compressed using the industry standard JPEG compression format for efficient distribution over a network. Equipped with an auto-focus 18x optical zoom lens, this camera can zoom in on small or distant objects with exceptional clarity. Frame rates of 25 fps at VGA resolution is just one of the many capabilities of the SNC-Z20P. 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 Intelligent Monitoring Software. The SNC-Z20P also offers a variety of other sophisticated features such as Day/Night mode, Slow Shutter, and Activity Detection functions, ideal for remote monitoring operations. With its network functionality, superb picture quality, and sophisticated features, the Sony SNC-Z20P is the right choice for many network monitoring applications.

#### Key Features

- ▶ Remote Monitoring/Control Over Networks  
*The SNCZ20P is equipped with a 100BaseTX/10BaseT (RJ45) interface and a builtin web server. This allows a PC running a standard web browser to monitor its live images and control the camera without the need for additional software or plugins. Up to 50 simultaneous users can access, monitor and control the images of a single SNCZ20P camera. And by installing the optional IMZRS Series Intelligent Monitoring Software, up to 32 cameras can be simultaneously monitored and controlled from a single PC. The images from these cameras can also be recorded to the PC's hard drive. In addition images can be viewed from a Personal Digital Assistant (PDA).*
- ▶ High Frame Rate  
*The SNCZ20P 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 set to a fixed or variable frame rate which is automatically adjusted according to the available bandwidth.*
- ▶ Network Security Features  
*IP Filtering - Using the IP filtering feature, access to the SNCZ20P 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 can be set to limit user privileges to functions such as zoom control viewing trigger control etc.*
- ▶ High Picture Quality and High Zoom Ratio  
*The SNCZ20P incorporates a 1/4 type CCD with Exwave HAD technology that produces high resolution images with excellent sensitivity. It achieves a horizontal resolution of 460 TV lines. The built-in auto-focus 18x optical zoom lens enables the user to obtain clear images over long distances. A maximum 216x zoom ratio is available when the optical zoom and 12x digital zoom are used together. To cover a wide angle of view an optional VCL0637H 0.6x Wide Conversion Lens can be attached.*
- ▶ Selectable Image Quality and Size/Image Flip Function  
*The SNCZ20P provides the flexibility to select image quality and image size according to network bandwidth. Employing the industry standard JPEG compression format, the SNCZ20P has selectable compression ratios between 1/5 and 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. Images from the camera can be electronically inverted, including the analog video output, allowing the camera to be installed in a variety of locations and positions.*
- ▶ Day/Night Function and Slow Shutter  
*The SNCZ20P offers a Day/Night function to provide optimised sensitivity in both day and night shooting scenarios. As the scene illumination reduces, and the image darkens, the infrared cut filter is automatically removed and the camera switches to B/W mode achieving a minimum illumination of 0.01 lx (F1.4 50 IRE Slow shutter OFF) - a drastic improvement from 0.7 lx minimum illumination in colour mode. In addition the slow shutter mode provides a remarkable enhancement in sensitivity by allowing the charge accumulation period of the CCD to be extended to a maximum of one second.*
- ▶ Backlight Compensation (BLC)  
*The Backlight Compensation (BLC) function helps to overcome strong backlighting effects which often cause the subject of the image to be cast into shadows. The image brightness can be set to adjust automatically to compensate for adverse lighting conditions.*
- ▶ AC 24V/DC 12V/PoweroverEthernet Operation  
*The SNCZ20P offers a choice of three different power supplies. AC 24 V or DC 12 V can be supplied through the standard power terminal. Power can also be supplied via an Ethernet CAT5 cable from an IEEE 802.3af compliant power supply system. AC 24 V / DC 12 V or PoE (Power over Ethernet) is automatically selected according to the power supplied. \*Network*

equipment capable of supplying IEEE 802.3af compliant power is required.

- ▶ PC Card Slot  
A built-in PC card slot on the front panel of the SNCZ20P enables the user to increase the SNCZ20P storage capacity for post-alarm recording by adding either a flash ATA memory card or an ATA hard disk drive (HDD) card. IC recording media such as a Memory Stick media card with a Memory Stick/PC card adaptor can also be used. In addition the SNCZ20P is compatible with certain IEEE 802.11b compliant wireless PC cards allowing for wireless network operation.
- ▶ RS232C Interface (Transparency Function or VISCA Protocol)  
The SNCZ20P has a transparency function available via the RS232C interface. This allows external equipment connected to the RS232C port of the SNCZ20P to be controlled from a PC over the network. Also the SNCZ20P can be controlled with the VISCA protocol from an external control device allowing local control of zoom and camera settings.
- ▶ Analog Composite Video Output  
The SNCZ20P can output an analog composite video signal from a BNC connector located on its rear panel. This allows the camera images to be directly recorded or monitored by connecting video equipment such as timelapse recorders, hard disk recorders, multiplexers and monitors.
- ▶ Activity Detection/Alarm Trigger  
The SNCZ20P is equipped with a built-in activity detection sensor that can be set to trigger an alarm or a switch through alarm output ports. If a change in luminance level is detected in the field of view an alarm is automatically triggered. In addition the SNCZ20P comes with an alarm input port to receive a trigger from an external sensor.
- ▶ Pre/PostAlarm Image Storage  
With the internal 8 MB buffer, or a memory card installed in the PC card slot, the SNCZ20P can store hundreds of pre-alarm and post-alarm still images at an alarm trigger received either from the activity detection sensor or the alarm input.
- ▶ Image Transfer using FTP/SMTTP  
The pre/post-alarm images stored at the time of an alarm event can be transferred to an FTP server and the still image can also be sent to a specified email address as a JPEG attachment enabling the user to see what happened when an alarm occurred.

#### Camera

- ▶ Image Device: 1/4 type Interline Transfer CCD with Exwave HAD technology
- ▶ Number of Effective Pixels (H x V): 752 x 582
- ▶ Electronic Shutter: 1 to 1/10000s
- ▶ Exposure: Auto [Full Auto (including backlight compensations), shutter-priority, Iris-priority] and manual
- ▶ White Balance: Auto, ATW, Indoor, Outdoor, One-push, Manual
- ▶ EV compensation: -1.75 to +1.75 EV (15 steps)
- ▶ Iris: Auto/Manual (f1.4 to close)
- ▶ Gain: Auto/Manual (-3 dB to +28 dB)
- ▶ Focus Mode: Auto/Manual (near, far, one-push, auto-focus)

#### Lens

- ▶ Type: Auto-focus zoom lens
- ▶ Zoom Ratio: 18x optical, 216x with digital zoom
- ▶ Focal Length: f=4.1mm to 73.8mm
- ▶ Horizontal Viewing Angle: 48° (wide), 2.7° (tele)
- ▶ F-number: F1.4 (wide), F3.0 (tele)
- ▶ Minimum Object Distance: 10mm (wide), 800mm (tele)

#### System Network

- ▶ CPU: 32-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)
- ▶ PC Card Slot: PCMCIA Type II x 1
- ▶ Video Output: Analog composite (BNC x 1), 1.0 Vp-p, 75 ohms unbalanced, sync negative
- ▶ Sensor In: 1
- ▶ Alarm Out: 2
- ▶ Serial Interface: RS-232C (transparency function or VISCA protocol)

#### Analog Video Output

- ▶ Signal System: PAL
- ▶ Sync System: Internal
- ▶ Horizontal Resolution: 460 TV lines
- ▶ S/N Ratio: More than 50 dB (AGC OFF, Weight ON)
- ▶ Minimum Illumination: 0.7 lx (F1.4, 50 IRE, Colour, Slow shutter OFF), 0.01 lx (F1.4, 50 IRE, B/W, Slow shutter OFF)

#### General

- ▶ Mass: 800g (1lb 12 oz)

- ▶ Dimensions (W x H x D): 80 x 77 x 177mm (3 1/4 x 3 1/8 x 7 inches)
- ▶ Power Requirements: DC 12V, AC 24 V, or Power-over-Ethernet
- ▶ Power Consumption: 9W
- ▶ 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: CD-ROM (setup program and users guide), Wire rope, Shoulder screw M4, Installation manual

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