

## SNC-EP550

720p/30 fps PTZ Camera - E Series



### Overview

The SNC-EP550 PTZ camera delivers:

- High quality 720p HD images over a wide area of view with its superb pan, tilt and zoom capabilities. It possesses a powerful 28x optical zoom with 12x digital zoom, giving a total zoom ratio of 336x
- hPoE, so that it can be powered through the same cable that it uses for data transfer, meaning simplified physical infrastructure
- Realshot Manager Lite, which enables you to start surveillance immediately
- ONVIF compliance protects your investment, guaranteeing your system's compatibility with a wide range of manufacturers' equipment.

### Features

#### **Excellent 720p HD picture quality at 30fps**

Gain the huge surveillance benefits of excellent picture quality with 720p HD supporting 30 fps at H.264 giving 1280 x 720 maximum resolution

#### **High quality and low noise images with Exmor CMOS® sensor**

Derived from Sony's broadcast range, the high resolution Exmor CMOS sensor improves image acquisition with its low noise characteristics.

### **Powerful 28x optical zoom capability**

28x optical zoom delivers greater flexibility in finding and tracking targets. 12x digital zoom capability provides a total zoom ratio of 336x

### **Choose the compression format that suits your needs**

This camera supports three compression formats: JPEG is the best choice for high-quality still images; MPEG-4 provides clear video images over limited-bandwidth networks; and H.264 is the alternative for severely limited-bandwidth networks, with twice the efficiency of MPEG-4.

### **Day/Night function for optimised images in all light conditions**

True Day/Night function switches the camera between Day (colour) and Night (B/W) modes, so that in Night mode the camera becomes sensitive to near-IR light and can reproduce images not visible to the naked eye.

### **Wide-D technology optimises images with varied lighting conditions**

Wide-D technology expands the video dynamic range of your camera to improve the visibility of images with high or poor contrast.

### **DEPA for intelligent camera-side analysis**

Sony's DEPA (Distributed Enhanced Processing Architecture) technology allows the camera to send not only images but also related metadata, including object size and position, to the DEPA-enabled recorder. Unlike conventional analytic systems, where all of the image processing is performed by the recorder, DEPA thereby avoids CPU overload

### **hPoE for greatly simplified installation**

The camera’s ability to be powered through the same Ethernet cable that it uses for data transfer, through high Power over Ethernet (hPoE – IEEE802.3at), significantly reduces physical infrastructure costs and accelerates deployment.

### **On-board recording for reduced network traffic**

The camera’s SD memory card slot gives you the option to perform on-board recording to reduce network traffic.

### **RealShot Manager Lite for instant performance**

Recording software (RealShot Manager Lite) is bundled with your camera so that you can start recording and monitoring immediately.

### **ONVIF compliance for compatibility and confidence**

The camera conforms to ONVIF (Open Network Video Interface Forum) version 1.02, the widely-accepted protocol for information exchange between network video devices, giving you confidence in its breadth and ease of compatibility.

## Specifications

### Camera

|                               |  |
|-------------------------------|--|
| Image Sensor                  | 1/4 type Exmor CMOS sensor   |
| Number of Effective Pixels    | Approx. 1.43 Megapixels  |
| Sync System                   | Internal synchronization   |
| Minimum Illumination (50 IRE) | Color: 1.0 lx (F1.35, AGC On, 1/30 s, 50 IRE)<br>B/W: 0.1 lx (F1.35, AGC On, 1/30 s, |

|                                  |   |
|----------------------------------|---|
|                                  | 50 IRE, Night Mode)   |
| Minimum Illumination<br>(30 IRE) | Color: 0.7 lx (F1.35, AGC On, 1/30 s,<br>30 IRE)<br>B/W: 0.07 lx (F1.35, AGC On, 1/30 s,<br>30 IRE, Night Mode) |
| Dynamic Range                    | Theoretically 86 dB by DynaView<br>Technology   |
| S/N Ratio (Gain 0 dB)            | 50 dB (Gain 0 dB)   |
| Gain                             | Auto/Manual (-3 to +28 dB)  |
| Shutter Speed                    | 1/1 s to 1/10,000 s   |
| Exposure Control                 | Full auto, Shutter priority, Iris<br>priority, Manual   |
| White Balance                    | Auto, ATW, Indoor, Outdoor, One-<br>push, Manual, Sodium vapour<br>lamp   |
| Lens                             | Auto-focus zoom lens  |
| Powered Zoom                     | Yes   |
| Zoom Ratio                       | Optical zoom 28x<br>Digital zoom 12x<br>Total zoom 336x   |
| Powered Focus                    | Yes   |
| Auto Focus                       | Yes   |

|                            |                                |
|----------------------------|--------------------------------|
| Horizontal Viewing Angle   | 55.9° to 2.1°                  |
| Vertical Viewing Angle     | 31.4° to 1.2°                  |
| Focal Length               | f = 3.5 mm to 98 mm            |
| F-Number                   | F1.35 (Wide) to F3.7 (Tele)    |
| Minimum Object Distance    | 10 mm (Wide) to 1500 mm (Tele) |
| Pan/Tilt Angle (powered)   | 340° endless rotation/105°     |
| Pan Speed                  | 300 °/s (max.)                 |
| Tilt Speed                 | 300 °/s (max.)                 |
| Number of Preset Positions | 256                            |
| Number of Tour Programs    | 5                              |

## Camera Features

|                 |           |
|-----------------|-----------|
| Day/Night       | True D/N  |
| Wide-D          | Dyna View |
| Noise Reduction | NR        |

|                                   |   |
|-----------------------------------|---|
| Privacy Masking<br>(number)       | 24  |
| Privacy Masking<br>(shape)        | Quadrangle  |
| Privacy Masking<br>(color/effect) | Opaque 14 colors (Black, White, Red, Green, Blue, Cyan, Yellow, Magenta, Gray (6 scales)), Mosaic   |
| Edge Storage                      | Yes   |
| Voice Alert                       | Yes   |
| Superimpose Number                | 3 independent positions for characters (Codec, Date & Time, Event, Text (Max. 64 characters)), 1 independent position for a logo mark   |
| Superimpose Language              | English   |
| Menu Language                     | English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish |
| Smartphone viewer                 | Yes   |

## Video

|                            |  |
|----------------------------|--|
| Resolution                 | 1280 x 720, 1024 x 576, 800 x 600,<br>800 x 480, 768 x 576, 720 x 576, 704 x<br>576, 720 x 480, 640 x 480, 640 x 368,<br>384 x 288, 320 x 240, 320 x 192 |
| Compression Format         | H.264, MPEG-4, JPEG  |
| Maximum Frame Rate         | H.264: 30 fps (1280x720)<br>MPEG-4: 30 fps (1280x720)<br>JPEG: 30 fps (1280x720)   |
| Bitrate Control Mode       | CBR/VBR (selectable)   |
| Range of Bit Rate Setting  | 64 Kbps to 8 Mbps  |
| Adaptive Rate Control      | H.264  |
| Bandwidth Control          | JPEG   |
| Multi streaming Capability | Dual streaming *1  |
| Number of Clients          | 5  |
| Letter Box                 | Yes (1280x 720 mode, aspect ratio:<br>16:9)  |

## Intelligent Video/Audio Analytics

Analytics Architecture DEPA

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|                              |     |
|------------------------------|-----|
| Intelligent Motion Detection | Yes |
| Tamper Alarm                 | Yes |
| Advanced Audio Detection     | Yes |

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## Audio

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|--------------------|-------------|
| Compression Format | G.711/G.726 |
|--------------------|-------------|

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## System Requirements

|                  |   |
|------------------|---|
| Operating System | Windows XP (32 bit) Professional Edition<br>Windows Vista (32 bit) Ultimate, Business Edition<br>Windows 7 (32/64 bit) Ultimate, Professional Edition |
| Processor        | Intel Core2 Duo 2 GHz or higher   |
| Memory           | 1 GB or more  |
| Web Browser      | Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0<br>Firefox Ver. 3.5 (plug-in free viewer only)<br>Safari Ver. 4.0 (plug-in free viewer       |

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|                    |   |
|--------------------|---|
|                    | only)<br>Google Chrome Ver.4.0 (plug-in free viewer only) |
| SNC toolbox        | Yes   |
| SNC toolbox mobile | Yes   |

## Network

|                                  |  |
|----------------------------------|--|
| Protocols                        | IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2) |
| Number of IP Address/Mac ADDRESS | 1  |
| QoS                              | DSCP   |
| Multicast Streaming Support      | Yes  |
| ONVIF Conformance                | Profile S  |
| Authentication                   | IEEE802.1X   |

## Interface

|                            |   |
|----------------------------|---|
| Microphone Input           | Mini jack (monaural), MIC IN: 2.5 V DC plug-in power                |
| Line Output                | Mini jack (monaural) Maximum output level: 1 Vrms                   |
| Network Port               | 10BASE-T/100BASE-TX (RJ-45)   |
| Alarm Input (Sensor Input) | x2  |
| Alarm Output               | x1 (mechanical relay outputs electrically isolated from the camera) |
| Card Slots                 | SD/SDHC x1  |
| Confirmed SD Card Type     | SDHC (Max. 32 GB)   |

## General

|                        |  |
|------------------------|--|
| Power Requirements     | IEEE 802.3at compliant (PoE+) Class 4, AC 24 V |
| Power Consumption      | Approx. 25 W                                   |
| Operating Temperature  | -5°C to +50°C<br>+23°F to +122°F               |
| Cold Start Temperature | 0 °C to +50°C<br>+32°F to +122°F               |

|                     |  |
|---------------------|--|
| Storage Temperature | -20 °C to + 60 °C<br>-4 °F to + 140 °F   |
| Operating Humidity  | 20 % to 80 %   |
| Storage Humidity    | 20 % to 95 %   |
| Dimensions *2       | φ147.4 mm x 190.9 mm<br>φ5 7/8 inches x 7 5/8 inches   |
| Mass                | Approx. 1.7 kg (including ceiling bracket)<br>Approx. 3 lb 12 oz (including ceiling bracket)   |
| External Material   | Base cabinet: PC+ABS<br>Camera cabinet: PC+ABS<br>Side cabinet: PC+ABS   |
| External Color      | Base cabinet: 9.3G 8.5/0.2<br>Camera cabinet: 6.9PB 1.9/0.3<br>Camera cabinet: 6.9PB 1.9/0.3   |
| Safety Regulations  | JATE Technical standard (LAN)<br>UL2044, IEC60950-1(CB)<br>VCCI (Class A), FCC(Class A), IC (Class A)<br>Emission: EN55022(Class A)+EN50130-4<br>Immunity: EN55022(Class |

A)+EN55024  
Emission: AS/NZS CISPR22(Class A)

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Supplied Accessories

- Installation Manual (1)
- Ceiling bracket (1)
- Screws (2)
- Template (1)
- 24V AC connector (1)
- I/O connector (1)
- 3 years warranty booklet (1)

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## Notes

\*1 Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)

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\*2 The values for dimensions are approximate.

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## Gallery

