

## SNC-EP580

1080p/30 fps PTZ Camera - E Series



### Overview

The SNC-EP580 PTZ camera delivers:

- High quality 1080p Full HD images over a wide area of view with its superb pan, tilt and zoom capabilities
- Powerful 20x optical zoom with 12x digital zoom, giving a total zoom ratio of 240x
- 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 1080p Full HD picture quality at 30fps**

Gain the huge surveillance benefits of excellent picture quality with 1080p Full HD supporting 30 fps at H.264 giving 1920 x 1080 maximum resolution.

#### **High quality and low noise images with Exmor**

## **CMOS<sup>®</sup> sensor**

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

## **Powerful 20x optical zoom capability**

20x optical zoom delivers greater flexibility in finding and tracking targets. 12x digital zoom capability provides a total zoom ratio of 240x.

## **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	1/2.8-type Exmor CMOS sensor
Number of Effective Pixels	Approx. 3.27 Megapixels
Sync System	Internal synchronization

Minimum Illumination (50 IRE)	Color: 1.7 lx (F1.6, AGC On, 1/30 s, 50 IRE) B/W: 0.3 lx (F1.6, AGC On, 1/30 s, 50 IRE, Night Mode)
Minimum Illumination (30 IRE)	Color: 1.2 lx (F1.6, AGC On, 1/30 s, 30 IRE) B/W: 0.18 lx (F1.6, AGC On, 1/30 s, 30 IRE, Night Mode)
Dynamic Range	Theoretically 86 dB by DynaView 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 priority, Manual
White Balance	Auto, ATW, Indoor, Outdoor, One-push, Manual, Sodium vapour lamp
Lens	Auto-focus zoom lens
Powered Zoom	Yes
Zoom Ratio	Optical zoom 20x Digital zoom 12x Total zoom 240x

Powered Focus	Yes
Auto Focus	Yes
Horizontal Viewing Angle	55.4° to 2.9°
Vertical Viewing Angle	43.4° to 1.3°
Focal Length	f = 4.7 mm to 94.0 mm
F-Number	F1.6 (Wide) to F3.5 (Tele)
Minimum Object Distance	10 mm (Wide) to 800 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
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Wide-D	Dyna View
Noise Reduction	NR
Privacy Masking (number)	24
Privacy Masking (shape)	Quadrangle
Privacy Masking (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

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Smartphone viewer Yes

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## Video

Resolution 1920 x 1080, 1680 x 1056, 1280 x 1024, 1440 x 912, 1280 x 960, 1376 x 768, 1280 x 800, 1280 x 720, 1024 x 768, 1024 x 576, 800 x 600, 800 x 480, 768 x 576, 720 x 576, 704 x 576, 720 x 480, 640 x 480, 640 x 368, 384 x 288, 320 x 240, 320 x 192

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Compression Format H.264, MPEG-4, JPEG

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Maximum Frame Rate H.264: 30 fps (1920 x 1080) \*1  
 MPEG-4: 30 fps (1440 x 912) \*1  
 JPEG: 30 fps (1440 x 912) \*1

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Bitrate Control Mode CBR/VBR (selectable)

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Range of Bit Rate Setting 64 Kbps to 8 Mbps

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Adaptive Rate Control H.264

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Bandwidth Control JPEG

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Multi streaming Capability Dual streaming \*2

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Number of Clients	5
Letter Box	Yes (1920x 1080 mode, aspect ratio: 16:9)

## Intelligent Video/Audio Analytics

Analytics Architecture	DEPA
Intelligent Motion Detection	Yes
Tamper Alarm	Yes
Advanced Audio Detection	Yes

## Audio

Compression Format	G.711/G.726
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## System Requirements

Operating System	Windows XP (32 bit) Professional Edition Windows Vista (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition
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Processor	Intel Core2 Duo 2.33 GHz or higher
Memory	2 GB or more
Web Browser	Microsoft Internet Explorer Ver. 6.0, Ver. 7.0, Ver. 8.0 Firefox Ver. 3.5 (plug-in free viewer only) Safari Ver. 4.0 (plug-in free viewer only) 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, SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP (MIB-2)
Number of IP Address/Mac ADDRESS	1
QoS	DSCP
Multicast Streaming	Yes

## Support

ONVIF Conformance	Profile S
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Authentication	IEEE802.1X
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## Interface

Microphone Input	Mini jack (monaural), MIC IN: 2.5 V DC plug-in power
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Line Output	Mini jack (monaural) Maximum output level: 1 Vrms
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Network Port	10BASE-T/100BASE-TX (RJ-45)
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Alarm Input (Sensor Input)	x2 (normally open/normally closed configurable)
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Alarm Output	x2, AC 24V/DC 24V, 1 A (mechanical relay outputs electrically isolated from the camera)
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Card Slots	SD x 1
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Confirmed SD Card Type	SDHC (Max. 32 GB)
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## General

IEEE 802.3at compliant (PoE+)

Power Requirements	Class 4, AC 24 V
Power Consumption	25 W max.
Operating Temperature	-5°C to +50°C +23°F to +122°F
Cold Start Temperature	0 °C to +50°C +32°F to +122°F
Storage Temperature	-20 °C to + 60 °C -4 °F to + 140 °F
Operating Humidity	20 % to 80 %
Storage Humidity	20 % to 95 %
Dimensions *3	φ147.4 mm x 190.9 mm φ5 7/8 inches x 7 5/8 inches
Mass	Approx. 1.7 kg (including ceiling bracket) Approx. 3 lb 12 oz (including ceiling bracket)
External Material	Base cabinet: PC+ABS Camera cabinet: PC+ABS Side cabinet: PC+ABS
External Color	Base cabinet: 9.3G 8.5/0.2 Camera cabinet: 6.9PB 1.9/0.3

Camera cabinet: 6.9PB 1.9/0.3

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Safety Regulations

JATE Technical Standard (LAN)  
 UL2044, IEC60950-1 (CB)  
 VCCI Class B, FCC Class B, IC Class B  
 Emission: EN55022 (Class B) + EN50130-4  
 Immunity: EN55022 (Class B) + EN55024  
 Emission: AS/NZS CISPR22 (Class B)

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Supplied Accessories

Installation Manual (1)  
 Ceiling bracket (1)  
 Screws (2)  
 Template (1)  
 24V AC connector (1)  
 I/O connector (1)  
 Warranty booklet (1)

## Notes

\*1 When using DynaView technology, the maximum frame rate becomes 15 fps

\*2 Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the

same format)

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The values for dimensions are approximate.

## Related products



### UNI-UMB1

Indoor wall mounting bracket for minidome and PTZ cameras



### SNCA-POLE30

Mounting pipe for pendant mount applications



### UNI-WMB3

Wall mount bracket for PTZ dome mount security camera housings



### SNCA-CEILING

Mounting coupling for pendant applications



### UNI-OPL7C3

Outdoor Pressurized dome camera housing

## Gallery



