

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[®] 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

Smartphone viewer Yes

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

Compression Format H.264, MPEG-4, JPEG

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

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 *2

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

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)

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)

*3

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



