

SNC-ER580

1080p/30 fps Rapid Dome
Camera - E Series



Overview

The SNC-ER580 Rapid Dome camera delivers:

- High quality 1080p Full HD images over a wide area of view with its superb pan, tilt and zoom capabilities
- High-speed 360 degrees endless rotation

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.

High-speed 360 degrees endless rotation

Ideal for mission critical surveillance, the camera's high-speed 360-degree endless panning capability enables it to cover a wide area quickly in a high degree of detail.

Above-the-horizon tilt capability

The camera's 15" tilt-up and total tilt range of 210" make it ideal for environments such as multi-storey car parks, shopping centres, terminals and other buildings.

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

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 progressive scan 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)

	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 with 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	31.2° to 1.6°
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)	360° endless rotation/210°
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 (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)
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Intelligent Video/Audio Analytics

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

Processor	Intel Core2 Duo 2.33 GHz or higher
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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 Support	Yes

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

Power Requirements	IEEE 802.3at compliant (PoE+) Class 4, AC 24 V
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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
	JATE Technical standard (LAN)

Safety Regulations	<p>UL2044, IEC60950-1(CB) VCCI (Class A), FCC(Class A), IC (Class A) Emission: EN55022(Class A)+EN50130-4 Immunity: EN55022(Class A)+EN55024 Emission: AS/NZS CISPR22(Class A)</p>
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Supplied Accessories	<p>Installation Manual (1) Ceiling bracket (1) Screws (2) Template (1) 24V AC connector (1) I/O connector (1) Warranty booklet (1)</p>
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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.

