

## SNC-ER550

720p/30 fps Rapid Dome Camera  
- E Series



### Overview

The SNC-ER550 Rapid Dome camera delivers:

- High quality 720p HD images over a wide area of view with its superb pan, tilt and zoom capabilities.
- High-speed 360 degrees endless rotation

### 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.

#### **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 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

### **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) B/W: 0.1 lx (F1.35, AGC On, 1/30 s, 50 IRE, Night Mode)

Minimum Illumination (30 IRE)	Color: 0.7 lx (F1.35, AGC On, 1/30 s, 30 IRE) B/W: 0.07 lx (F1.35, 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 28x Digital zoom 12x 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)	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	1280 x 720, 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 (1280 x 720) MPEG-4: 30 fps (1280 x 720) JPEG: 30 fps (1280 x 720)
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: 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

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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
Memory	1 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

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	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 (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 +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 *2	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 A), FCC(Class A), IC (Class A) Emission: EN55022(Class A)+EN50130-4 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)

\*2 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



**SNCA-WM40**  
Heavy duty outdoor wall mount for the SNC-RS84P, SNC-



**UNI-WMB3**  
Wall mount bracket for PTZ dome mount security camera housings

RS86P and SNC-  
RH164rapid dome  
cameras



## **SNCA- CEILING**

Mounting coupling for  
pendant applications



## **UNI- OPL7C3**

Outdoor Pressurized  
dome camera housing



## **SNCA- HRX550EXT/W**

Outdoor wireless  
dome camera housing

## Gallery

