

SNC-ER520

Standard Definition (NTSC)
Rapid Dome Network Camera



Overview

Stylish network camera with powerful optical zoom and high-speed 360 degree endless rotation

This stylishly designed rapid dome camera is ideal for video monitoring of wide areas like shopping malls and airport concourses.

The SNC-ER520 captures crisp Standard Definition (NTSC) images in a choice of three popular video coding standards to suit your needs and network conditions.

The autofocus lens with powerful 36x optical zoom range pulls distant subjects closer for detail-packed close-ups. Combined with digital zoom, maximum magnification ratio is an impressive 432x, helping identify far-away subjects even in the largest airport concourse.

Even high-contrast or backlit scenes aren't a problem with DynaView technology that can handle extremes of light and shade for a clearer view.

High-speed 360 degree endless rotation helps pinpoint targets faster, while the camera's wide tilt range includes an above-the-horizon capability – ideal for monitoring multi-level environments like shopping precincts and car parks.

Images can be optionally recorded onto an on-board memory card for fail-safe data backup. The camera can also be conveniently controlled from a smartphone or tablet, letting you view images remotely and adjust pan, tilt, and zoom.

The SNC-ER520 is easy to install, with HPoE (High Power over Ethernet) sharing power and data signals over the same cable to reduce infrastructure costs and labour.

Features

High-speed 360-degree endless rotation

The camera's high-speed 360-degree endless panning capability is ideal for covering wide areas quickly.

Above-the-horizon tilt capability

With a 15° tilt-up and total tilt range of 210°, the SNC-ER520 is ideal for environments such as multi-storey car parks, shopping centres and transport terminals.

Detail-packed close-ups with 36x optical zoom

Easily find and track targets with powerful 36x optical zoom. Combined with 12x digital zoom it provides an impressive total zoom ratio of 432x.

Three codecs with dual streaming capability

Pick the video compression format that's appropriate for your application needs and network resources. JPEG is the best choice for capturing high-quality still images; MPEG-4 or H.264 provide clear video images over limited-bandwidth networks. Dual streaming allows two video streams to be sent independently – ideal for viewing live video while recording simultaneously onto a server.

Better pictures, day or night

True Day/Night function switches the camera between Day

(colour) and Night (B/W) modes, boosting sensitivity to near-IR light to see images in conditions of near-darkness.

Effortlessly handle varied lighting conditions with DynaView

DynaView with Wide-D technology expands video dynamic range, improving visibility of images in scenes with high or poor contrast.

DEPA Intelligent Video Analytics

Sony's DEPA (Distributed Enhanced Processing Architecture) technology also transmits metadata – like object size and position – to a DEPA-enabled recorder. Image processing is performed by the camera, reducing the load on the recorder compared with conventional analytic systems.

Simpler installation with HPOE

High Power over Ethernet (HPOE – IEEE802.3at) uses the same network cable for camera powering and data transfer, reducing physical infrastructure costs and allowing simpler, more rapid installation.

On-board recording

Images can be recorded directly to an optional SD memory card for fail-safe data backup.

View and control with your smartphone

Securely access the camera using a smartphone or tablet (Android or iOS) to view images remotely and control pan, tilt, and zoom functions. You don't even need to download a special app.

ONVIF compliance for compatibility and confidence

The SNC-ER520 conforms to ONVIF (Open Network Video Interface Forum) Profile S, the widely-accepted protocol for information exchange between network video devices. This gives

extra confidence in the camera's breadth of compatibility with other devices.

Specifications

Camera	
Image Sensor	1/4-type EXview HAD CCD sensor
Number of Effective Pixels	Approx. 0.38 Megapixels
Sync System	Internal synchronization
Minimum Illumination (50 IRE)	Color: 1.4 lx (F1.6, AGC On, 1/60 s, 50 IRE) B/W: 0.15 lx (F1.6, AGC On, 1/60 s, 50 IRE, Night Mode)
Minimum Illumination (30 IRE)	Color: 0.9 lx (F1.6, AGC On, 1/60 s, 30 IRE) B/W: 0.1 lx (F1.6, AGC On, 1/60 s, 30 IRE, Night Mode)
Dynamic Range	Theoretically 92 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 36x Digital zoom 12x Total zoom 432x
Powered Focus	Yes
Auto Focus	Yes
Horizontal Viewing Angle	57.8° to 1.7°
Vertical Viewing Angle	43.4° to 1.3°
Focal Length	f = 3.4 mm to 122.4 mm
F-Number	F1.6 (Wide) to F4.5 (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
Image Stabilizer	Electronic
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	720 x 480, 704 x 576, 640 x 480, 384 x 288, 320 x 240
Compression Format	H.264, MPEG-4, JPEG
Maximum Frame Rate	H.264: 30 fps (720 x 480) MPEG-4: 30 fps (720 x 480) JPEG: 30 fps (720 x 480)

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 *1
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Number of Clients	5
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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 1.8 GHz or higher Intel Pentium4 2.4GHz 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 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-
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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)
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General

Power Requirements	IEEE 802.3at compliant (PoE+) Class 4, AC 24 V
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Power Consumption	Approx. 25 W
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Operating Temperature	-5°C to +50°C +23°F to +122°F
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Cold Start Temperature	0 °C to +50°C +32°F to +122°F
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Storage Temperature	-20 °C to + 60 °C -4 °F to + 140 °F
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Operating Humidity	20 % to 80 %
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Storage Humidity	20 % to 95 %
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Dimensions *2	φ147.4 mm x 190.9 mm φ5 7/8 inches x 7 5/8 inches
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Mass	Approx. 1.7 kg (including ceiling bracket) Approx. 3 lb 12 oz (including ceiling bracket)
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Base cabinet: PC+ABS

External Material	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)
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)

Notes

Dual streaming (Any combination)

*1 with JPEG/MPEG-4/H.264, including multiple streams of the same format)

*2 The values for dimensions are approximate.

Gallery

