

## 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
<h2>Camera Features</h2>	
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
<b>Video</b>	
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)
----------------------	----------------------

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
-------------------	---

## 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
--------------------	-------------

## 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-
-----------	--------------------------------------------------------------------------------------------------------------------------

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)
------	----------------------------------------------------------------------------------------------

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

