

## SNC-EP521

Standard Definition (PAL) PTZ  
Network Camera



### Overview

#### **Stylish, easy to install network camera with powerful optical zoom**

This stylishly designed PTZ (pan tilt zoom) camera is ideal for video monitoring of wide areas like shopping malls and airport concourses.

The SNC-EP521 captures crisp Standard Definition (PAL) 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.

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

The SNC-EP521 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

### **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 H PoE**

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-EP521 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. 0.44 Megapixels
Sync System	Internal synchronization

Minimum Illumination (50 IRE)	Color: 1.4 lx (F1.6, AGC On, 1/50 s, 50 IRE) B/W: 0.15 lx (F1.6, AGC On, 1/50 s, 50 IRE, Night Mode)
Minimum Illumination (30 IRE)	Color: 0.9 lx (F1.6, AGC On, 1/50 s, 30 IRE) B/W: 0.1 lx (F1.6, AGC On, 1/50 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)	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
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
	English, Japanese, Chinese (simplified), Chinese (traditional),

Menu Language	French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish
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Smartphone viewer	Yes
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## Video

Resolution	720 x 576, 704 x 576, 640 x 480, 384 x 288, 320 x 240
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Compression Format	H.264, MPEG-4, JPEG
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Maximum Frame Rate	H.264: 25 fps (720x576)
	MPEG-4: 25 fps (720x576)
	JPEG: 25 fps (720x576)

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
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Memory	1 GB or more
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	Microsoft Internet Explorer Ver. 6.0,
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Web Browser	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)
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SNC toolbox	Yes
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SNC toolbox mobile	Yes
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## Network

Protocols	IPv4, IPv6, TCP, UDP, ARP, ICMP, IGMP, HTTP, HTTPS, FTP (client/server), SMTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SNMP(MIB-2)
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Number of IP Address/Mac ADDRESS	1
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QoS	DSCP
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Multicast Streaming Support	Yes
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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
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Alarm Output	x1 (mechanical relay outputs electrically isolated from the camera)
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Card Slots	SD/SDHC x1
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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	Approx. 25 W
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Operating	-5°C to +50°C
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Temperature	+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
	JATE Technical standard (LAN) UL2044, IEC60950-1(CB) VCCI (Class A), FCC(Class A), IC (Class A)

Safety Regulations	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)
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*2	The values for dimensions are approximate.
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## Gallery



