

## SNC-ER521

Standard Definition (PAL) 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-ER521 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.

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-ER521 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-ER521 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-ER521 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)<br>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)<br>B/W: 0.1 lx (F1.6, AGC On, 1/50 s, 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<br>Digital zoom 12x<br>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 |
| 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   |
| Edge Storage         | Yes   |
| <b>Video</b>         |   |
| Resolution           | 720 x 576, 704 x 576, 640 x 480, 384 x 288, 320 x 240   |
| Compression Format   | H.264, MPEG-4, JPEG   |
| Maximum Frame Rate   | H.264: 25 fps (720 x 576)<br>MPEG-4: 25 fps (720 x 576)<br>JPEG: 25 fps (720 x 576)   |

|                            |                      |
|----------------------------|----------------------|
| 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<br>Windows Vista (32 bit) Ultimate, Business Edition<br>Windows 7 (32/64 bit) Ultimate, Professional Edition   |
| Processor          | Intel Core2 Duo 1.8 GHz or higher<br>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<br>Firefox Ver. 3.5 (plug-in free viewer only)<br>Safari Ver. 4.0 (plug-in free viewer only)<br>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)  |
| <b>General</b>         |  |
| Power Requirements     | IEEE 802.3at compliant (PoE+) Class 4, AC 24 V   |
| Power Consumption      | Approx. 25 W   |
| Operating Temperature  | -5°C to +50°C<br>+23°F to +122°F   |
| Cold Start Temperature | 0 °C to +50°C<br>+32°F to +122°F   |
| Storage Temperature    | -20 °C to + 60 °C<br>-4 °F to + 140 °F   |
| Operating Humidity     | 20 % to 80 %   |
| Storage Humidity       | 20 % to 95 %   |
| Dimensions *2          | φ147.4 mm x 190.9 mm<br>φ5 7/8 inches x 7 5/8 inches   |
| Mass                   | Approx. 1.7 kg (including ceiling bracket)<br>Approx. 3 lb 12 oz (including ceiling bracket) |

|                      |  |
|----------------------|--|
| External Material    | Base cabinet: PC+ABS<br>Camera cabinet: PC+ABS<br>Side cabinet: PC+ABS   |
| External Color       | Base cabinet: 9.3G 8.5/0.2<br>Camera cabinet: 6.9PB 1.9/0.3<br>Camera cabinet: 6.9PB 1.9/0.3   |
| Safety Regulations   | JATE Technical standard (LAN)<br>UL2044, IEC60950-1(CB)<br>VCCI (Class A), FCC(Class A), IC (Class A)<br>Emission: EN55022(Class A)+EN50130-4<br>Immunity: EN55022(Class A)+EN55024<br>Emission: AS/NZS CISPR22(Class A) |
| Supplied Accessories | Installation Manual (1)<br>Ceiling bracket (1)<br>Screws (2)<br>Template (1)<br>24V AC connector (1)<br>I/O connector (1)<br>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.

---

## Related products



### **UNI-UMB1**

Indoor wall mounting  
bracket for minidome  
and PTZ cameras



### **UNI-WMB3**

Wall mount bracket  
for PTZ dome mount  
security camera  
 housings

## Gallery



