

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 | |
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| 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 |

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| 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° |

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| 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 |

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| 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) |

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| 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

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| 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

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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 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

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| 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

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| 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 |

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| Confirmed SD Card Type | SDHC (Max. 32 GB) |
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General

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| 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

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| 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

