

## SNC-EB640

Box-type Full HD IP Network  
Camera (E-Series)



### Overview

**Excellent image quality made affordable with this versatile Full HD network camera that's ideal for everyday security applications.**

This versatile, easy to install fixed network camera brings Full HD imaging quality to a wide range of indoor security and surveillance applications, from offices, banks and retail spaces to schools and colleges.

The SNC-EB640 captures crisp, low-noise Full HD images, even in challenging low-light conditions like dimly-lit car parks. The sensitive 1/2.8" type Exmor R CMOS image sensor is teamed with XDNR processing, improving low-light performance and achieving the minimum illumination of 0.006 lux(30 IRE) in colour mode.

View-DR expands dynamic range for significantly improved imaging in high-contrast and strongly backlit scenes, like sun-drenched offices or car park entrances. Image stabilisation keeps video images crisp and clear, even when the camera is subject to vibration on a mounting pole or bracket.

The addition of SD card edge storage allows video/audio data to be recorded directly by the camera when triggered by an alarm event. This provides valuable redundancy in the event of

temporary network failure: recording to the network server resumes automatically when normal network connection is restored.

Installation of the SNC-EB640 is simplified by the same familiar user interface, usability and form factor as previous-generation Sony E Series cameras.

## Features

### **See every scene clearly with Full HD image quality**

View fine detail in a wide range of everyday video security and surveillance environments, from retail spaces to banks and schools. The sensitive 1/2.8" type Exmor R CMOS image sensor is teamed with XDNR processing, improving low-light performance and achieving the minimum illumination of 0.006 lux(30 IRE) in colour mode.

### **Steadier, more stable video footage**

The in-built image stabiliser minimises the effects of camera shake – for example when the camera's pole mounted or subject to mechanical vibration. With clearer, more stable video images it's easier to see what's happening in any scene.

### **Don't miss that crucial moment with Intelligent Motion Detection and Face Detection**

In-built motion detection can trigger a range of actions, from storage and transfer of images to sounding of external alarms. False alarms caused by noise, weather and environment noise are minimised by a smart processing algorithm. Human face detection is also supported, allowing rapid indexing of recordings to find events where a face is visible in the scene.

### **Better pictures, day or night**

True D/N (Day/Night) function automatically switches the camera to Day or Night mode, depending on ambient light levels.

## **Optimum picture quality in any situation**

A choice of selectable picture modes optimises camera settings for best picture quality in a wide range of applications and lighting environments.

## **Recording quality to suit your network**

Select CBR (constant bitrate), VBR (variable bitrate) or VBR-with-cap compression modes for optimised recording quality depending on IP network conditions.

## **Edge recording on SD card for reliable operation**

SD card edge storage allows video/audio data to be recorded directly by the camera when triggered by an alarm event. This provides valuable redundancy in the event of temporary network failure: recording to the network server resumes automatically when normal network connection is restored.

## **Detect in confidence with Edge-based Analytics**

Powerful DEPA Advanced video analytics enhances Intelligent Motion Detection with rule-based alarm triggers, providing alerts with object filters like 'passing' and 'intrusion' to further reduce false alarms.

## **Reduce cabling costs with Power Over Ethernet (PoE)**

Power over Ethernet (PoE) allows the camera be powered by the same Ethernet cable that's used for data transfer, reducing installation complexity and costs.

## **View and control with your smartphone**

Remotely view live camera images with your Android or iOS smartphone or tablet. You don't even need to download a special app.

## **ONVIF (Open Network Video Interface Forum) compliance**

Support for ONVIF simplifies interoperability with other network

video devices. The ONVIF (Open Network Video Interface Forum) defines a common protocol for the exchange of information between network video devices, including automatic device discovery and video streaming.

### Triple streaming for extra operational versatility

Configure up to three simultaneous IP video streams to suit your operating needs. For example, one stream for high quality live viewing; another for storage-efficient recording; and a third for viewing over a low bandwidth connection or on mobile devices.

## Specifications

### Camera

|                               |   |
|-------------------------------|---|
| Image Sensor                  | 1/2.8-type progressive scan Exmor R CMOS sensor   |
| Number of Effective Pixels    | Approx. 2.13 Megapixels   |
| Signal System                 | NTSC/PAL (switchable)   |
| Sync System                   | Internal synchronization  |
| Minimum Illumination (50 IRE) | Color: 0.01 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)<br>B/W: 0.007 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) |
| Minimum Illumination (30 IRE) | Color: 0.006 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)<br>B/W: 0.005 lx (F1.2, View-DR Off, VE                             |

|                          |   |
|--------------------------|---|
|                          | Off, AGC On, 1/30 s, 30 fps)  |
| Dynamic Range            | Equivalent to 90 dB with View-DR technology   |
| S/N Ratio (Gain 0 dB)    | More than 50 dB   |
| Gain                     | Auto  |
| Shutter Speed            | 1/1 s to 1/10,000 s   |
| Exposure Control         | Exposure compensation, Shutter speed, Iris  |
| White Balance            | ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual |
| Lens                     | CS-mount varifocal lens   |
| Zoom Ratio               | Optical zoom 2.9x<br>Digital zoom 4x<br>Total zoom 11.6x  |
| Easy Focus for Setup     | Yes   |
| Horizontal Viewing Angle | 114.2 ° to 40.0 °   |
| Vertical Viewing Angle   | 60.6 ° to 22.5 °  |
| Focal Length             | f = 2.8 mm to 8.0 mm  |

|                             |                             |
|-----------------------------|-----------------------------|
| F-Number                    | F1.2 (Wide) to F1.95 (Tele) |
| Minimum Object Distance     | 300 mm                      |
| IR Illuminator              | No                          |
| White-light LED Illuminator | No                          |

## Camera Features

|                                  |                     |
|----------------------------------|---------------------|
| Day/Night                        | True D/N            |
| Day/Night linked with Easy Focus | Yes                 |
| Image Rotate                     | 90°, 270°           |
| Mirroring                        | Yes                 |
| Wide-D                           | View-DR             |
| Tone Correction                  | Visibility Enhancer |
| Noise Reduction                  | XDNR                |
| Image Stabilizer                 | Electronic          |
| Picture Mode                     | Yes                 |
| Privacy Masking (number)         | 20                  |

|                                |  |
|--------------------------------|--|
| Privacy Masking (shape)        | Quadrangle formed by any four corner points  |
| 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 |

## Video

|            |   |
|------------|---|
| Resolution | 1920 x 1080, 1280 x 720, 1024 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x |
|------------|---|

|                               |  |
|-------------------------------|--|
|                               | 480, 640 x 360, 352 x 288, 320 x 184<br>(H.264, JPEG)    |
| Compression Format            | H.264(High/Main/Baseline Profile),<br>JPEG               |
| Maximum Frame Rate            | H.264: 60 fps (1920 x 1080)<br>JPEG: 60 fps (1280 x 720) |
| Bitrate Control Mode          | CBR/VBR (selectable)                                     |
| Range of Bit Rate<br>Setting  | 64 Kbps to 32 Mbps                                       |
| Solid PTZ                     | Yes  |
| e-Varifocal                   | Yes  |
| Adaptive Rate Control         | H.264  |
| Bandwidth Control             | JPEG   |
| Multi streaming<br>Capability | Yes (3)  |
| Number of Clients             | 20   |

## Intelligent Video/Audio Analytics

Analytics Architecture DEPA Advanced

Intelligent Motion

Detection Yes



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|                 |   |
|-----------------|---|
| Face Detection  | Yes   |
| Tamper Alarm    | Yes   |
| Scene Analytics | Passing, Intrusion, Left Object Detection, Removed Object Detection |

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## Audio

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|--------------------|----------------------------------|
| Compression Format | G.711/G.726/AAC (16 kHz, 48 kHz) |
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## System Requirements

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|------------------|---|
| Operating System | Windows 7 (32/64 bit) Ultimate, Professional Edition<br>Windows 8.1 Pro (32/64 bit)<br>Windows 10 Pro (32/64 bit)                           |
| Processor        | Intel Core i7 2.8 GHz or higher   |
| Memory           | 2 GB or more  |
| Web Browser      | Microsoft Internet Explorer Ver. 11.0<br>Firefox Ver. 50.1 (plug-in free viewer only)<br>Google Chrome Ver. 55.0 (plug-in free viewer only) |

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|--------------------|-----|
| SNC toolbox        | Yes |
| SNC toolbox mobile | Yes |

## Network

|                             |   |
|-----------------------------|---|
| Protocols                   | IPv4, TCP, UDP, ARP, ICMP, IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, SMTP over HTTP, IPv6, HTTPS, FTP (client), SNMP (v1, v2c, v3), SSL |
|                             | *SSM (Source Specific Multicast) is supported.  |
| QoS                         | DSCP  |
| Multicast Streaming Support | Yes   |
| ONVIF Conformance           | Profile S, Profile T  |
| Authentication              | IEEE802.1X  |

## Interface

|                     |   |
|---------------------|---|
| Analog Video Output | BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative<br>700 TV lines (analog video)*2 |
|---------------------|---|

|                        |   |
|------------------------|---|
| Microphone Input       | Mini jack (monaural)                              |
| Line Input             | Mini jack (monaural)                              |
| Line Output            | Mini jack (monaural) Maximum output level: 1 Vrms |
| Network Port           | 10BASE-T/100BASE-TX (RJ-45)                       |
| Card Slots             | SD x 1  |
| Confirmed SD Card Type | Max. 256GB *3                                     |

## General

|                        |                                     |
|------------------------|-------------------------------------|
| Power Requirements     | IEEE 802.3af compliant (PoE system) |
| Power Consumption      | 6.0 W max.                          |
| Operating Temperature  | -10°C to +50°C<br>14°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 80 %(no condensation)  |
| Dimensions (W x H x D)*1 | 72 mm x 63 mm x 145 mm (without lens)<br>2 7/8 inches x 2 1/2 inches x 5 3/4 inches (without lens)   |
|                          | 72 mm x 63 mm x 199 mm (with lens)<br>2 7/8 x 2 1/2 x 7 7/8 inches (with lens)   |
| Mass                     | Approx. 550 g (with lens)<br>Approx. 1 lb 3.4 oz (with lens)   |
| External Material        | Top cover: SECC-CF<br>Bottom cover: SECC-CF<br>Front panel: ADC12<br>Rear panel: PC + ABS  |
| External Color           | Top cover: Munsell 3.6GY 8.4/0.3<br>Bottom cover: Munsell 3.6GY 8.4/0.3<br>Front panel: Munsell 3.5PB 2.2/0.4<br>Rear panel: Munsell 4.4BG 8.4/0.2 |
|                          | UL2044, IEC60950-1 (CB)<br>VCCI (Class A), FCC (Class A), IC (Class A)<br>Emission: EN55032 (Class A)  |

|                    |  |
|--------------------|--|
| Safety Regulations | Immunity: EN55024+ EN50130-4<br>Emission: AS/NZS CISPR32 (Class A)<br>KC<br>EMC-TR |
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|----------------------|---|
| Supplied Accessories | Wire rope (1)<br>Screw M4 (1)<br>Safety regulations (1)<br>Operating Instructions - Download site Information (1) |
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## Notes

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| *1 | The values for dimensions are approximate. |
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| *2 | Monitor display ratio 4:3 |
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|----|---|
| *3 | The maximum number of event recording in the SD card is 4000. It may not use the full capacity of the SD card, depending on the limitation set for the event recording. |
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Related products



## **UNI- OPBC6**

Pessurised  
temperature  
controlled vandal-  
resistant security  
camera housing



## **UNI- OTBC2**

Temperature-  
controlled vandal  
resistant outdoor  
security camera  
housing

## Gallery

