

## SNC-EB600

Box-type 720p/30 fps Camera  
Powered by IPELA ENGINE EX™ -  
E Series



### Overview

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

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

Sony's Exmor CMOS sensor captures crisp, clear, low-noise HD images for dependable monitoring – even in tricky low-light situations.

As a part of Sony's latest generation of video security cameras, the SNC-EB600 features Sony's award winning IPELA ENGINE EX processing platform. This boosts image quality in a wide range of environments, including challenging low-light scenes.

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.

### Features

**See every scene clearly with 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 high resolution Exmor CMOS sensor assures crisp, clear HD 720p images – even in low light conditions like dimly-lit car parks.

## **Best-ever imaging performance with IPELA ENGINE EX**

At the heart of Sony's latest generation of cameras, the powerful IPELA ENGINE EX processing platform combines several technologies for optimised HD picture quality. View-DR combines images taken at different shutter speeds, delivering a wide dynamic range up to 130 dB for excellent performance in high contrast, strongly backlit environments.

## **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.

## **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**

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## **(PoE)**

Power over Ethernet (PoE) allows the camera be powered using the same Ethernet cable that's 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.

## **Day/Night operation for clearer images around the clock**

In extreme low light conditions the camera switches automatically to a special night-time monitoring mode, removing the IR-cut filter and extending sensitivity to infra-red wavelengths. Sophisticated video processing ensures crisp, clearly-visible colour images in light levels as low as 0.05 lx. During the day, the IR-cut filter assures excellent image clarity and colour accuracy, even in bright sunlight.

## Camera

|                               |  |
|-------------------------------|--|
| Image Sensor                  | 1/3-type progressive scan Exmor CMOS sensor  |
| Number of Effective Pixels    | Approx. 1.37 Megapixels  |
| Signal System                 | NTSC/PAL (switchable)  |
| Sync System                   | Internal synchronization   |
| Minimum Illumination (50 IRE) | Color: 0.05 lx (F1.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)<br>B/W: 0.04 lx (F1.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) |
| Minimum Illumination (30 IRE) | Color: 0.03 lx (F1.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)<br>B/W: 0.02 lx (F1.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) |
| Dynamic Range                 | Equivalent to 130 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 2.7x<br>Digital zoom 4x<br>Total zoom 10.8x  |
| Easy Focus for Setup             | Yes   |
| Horizontal Viewing Angle         | 92.5° to 35.7°  |
| Vertical Viewing Angle           | 72.7° to 28.6°  |
| Focal Length                     | f = 3.0 mm to 8.0 mm  |
| F-Number                         | F1.0 (Wide) to F1.65 (Tele)   |
| Minimum Object Distance          | 200 mm  |
| <h2>Camera Features</h2>         |   |
| 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<br>(number)       | 20   |
| Privacy Masking<br>(shape)        | Quadrangle formed by any four corner points  |
| Privacy Masking<br>(color/effect) | Opaque 14 colors (Black, White, Red, Green, Blue, Cyan, Yellow, Magenta, Gray (6 scales)), Mosaic                                    |
| Superimpose Number                | 3 independent positions for characters (Codec, Date & Time, Event, Text (Max. 64 characters)), 1 independent position for logo marks |
| Superimpose Language              | English  |

|               |  |
|---------------|--|
| Menu Language | English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai |
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| Smartphone viewer | Yes |
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## Video

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| Resolution | 1280 x 1024, 1280 x 960, 1024 x 768, 1280 x 720, 800 x 600, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 352 x 288, 320 x 240 (H.264, JPEG) |
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| Compression Format | H.264 (High/Main/Baseline Profile), JPEG |
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|--------------------|---|
| Maximum Frame Rate | H.264: 30 fps (1280 x 1024)<br>JPEG: 30 fps (1280 x 1024) |
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| Bitrate Control Mode | CBR/VBR (selectable) |
|----------------------|----------------------|

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|---------------------------|--------------------|
| Range of Bit Rate Setting | 64 Kbps to 32 Mbps |
|---------------------------|--------------------|

|           |     |
|-----------|-----|
| Solid PTZ | Yes |
|-----------|-----|

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|-----------------------|-------|
| Adaptive Rate Control | H.264 |
|-----------------------|-------|

|                   |      |
|-------------------|------|
| Bandwidth Control | JPEG |
|-------------------|------|

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| Multi streaming Capability | Yes (3) |
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| Number of Clients | 20 |
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## Intelligent Video/Audio Analytics

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| Analytics Architecture | DEPA Advanced |
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| Intelligent Motion Detection | Yes |
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| Face Detection | Yes |
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| Tamper Alarm | Yes |
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| Scene Analytics | Passing, Intrusion, Left Object Detection, Removed Object Detection |
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## System Requirements

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|------------------|---|
| 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<br>Windows 8 Pro (32/64 bit)<br>Windows 8.1 Pro (32/64 bit) |
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|--------------------|---|
| Processor          | Intel Corei7 2.8 GHz or higher  |
| Memory             | 2 GB or more  |
| Web Browser        | Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0, Ver. 11.0<br>Firefox Ver. 19.02 (plug-in free viewer only)<br>Safari Ver. 5.1 (plug-in free viewer only)<br>Google Chrome Ver. 25.0 (plug-in free viewer only) |
| 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<br>*SSM (Source Specific Multicast) is supported. |
| Number of IP Address/Mac ADDRESS | 1   |

|                             |                      |
|-----------------------------|----------------------|
| QoS                         | DSCP                 |
| Multicast Streaming Support | Yes                  |
| ONVIF Conformance           | Profile S, Profile T |
| Authentication              | IEEE802.1X           |

## Interface

|                                 |                             |
|---------------------------------|-----------------------------|
| Analog Monitor Output for Setup | Mini jack x1                |
| Network Port                    | 10BASE-T/100BASE-TX (RJ-45) |

## General

|                        |  |
|------------------------|--|
| Power Requirements     | IEEE 802.3af compliant (PoE system)    |
| Power Consumption      | 5.0 W max.                             |
| Operating Temperature  | -10°C to +60°C<br>14°F to 140°F        |
| Cold Start Temperature | 0°C to +60°C<br>32°F to 140°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 *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)<br>72 mm x 63 mm x 188 mm (with lens)<br>4 7/8 x 2 1/2 x 7 1/2 inches (with lens) |
| Mass               | Approx. 480 g (with lens)<br>Approx. 1 lb 0.9 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                                   |
| Fire Retardant     | UL2044   |
|                    | JATE Technical standard (LAN)<br>UL2044, IEC60950-1 (CB)<br>VCCI (Class A), FCC (Class A), IC  |

|                    |   |
|--------------------|---|
| Safety Regulations | (Class A)<br>Emission: EN55022 (Class A) +<br>EN50130-4<br>Immunity: EN55022 (Class A) +<br>EN55024<br>Emission: AS/NZS CISPR22 (Class<br>A)<br>KCC<br>EMC-TR |
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| Supplied Accessories | CD-ROM (supplied programs) (1)<br>Installation Manual (1)<br>Wire rope (1)<br>Screw (M4 × 8) (1)<br>Safety regulations (1) |
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## Notes

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| *1 | The values for dimensions are approximate. |
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## Gallery

