

## SNC-EB630B

Basic Box-type 1080p/30 fps  
Camera Powered by IPELA  
ENGINE EX™ - E Series



### Overview

**This highly affordable yet versatile Full HD fixed network camera is ideal for everyday security applications.**

This easy to install fixed network camera with an attractively price 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 Full 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-EB630B 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 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 high resolution Exmor CMOS sensor assures crisp, clear Full HD 1080p 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 optimises Full HD picture quality. View-DR combines images taken at different shutter speeds, delivering a wide dynamic range up to 90 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 (PoE)**

Power over Ethernet (PoE) allows the camera be powered using 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.

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

See clear images at any time of day – or night. Day/Night operating modes can be selected manually or automatically, ensuring excellent image clarity whether you're viewing in bright sunlight or near-darkness.

|                               |  |
|-------------------------------|--|
| Image Sensor                  | 1/2.9-type progressive scan Exmor CMOS sensor  |
| Number of Effective Pixels    | Approx. 2.14 Megapixels  |
| Signal System                 | NTSC/PAL (switchable)  |
| Sync System                   | Internal synchronization   |
| Minimum Illumination (50 IRE) | Color: 0.1 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)<br>B/W: 0.07 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)  |
| Minimum Illumination (30 IRE) | Color: 0.06 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)<br>B/W: 0.05 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<br><br>ATW, ATW-PRO, Fluorescent lamp,  |

|                          |   |
|--------------------------|---|
| White Balance            | 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                            |
| 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  |

## Camera Features

|                 |                     |
|-----------------|---------------------|
| Day/Night       | Electronic D/N      |
| 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  |
| 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 |
| Smartphone viewer              | Yes  |

## 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 (H.264, JPEG) |
| Compression Format         | H.264 (High/Main/Baseline Profile), JPEG   |
| Maximum Frame Rate         | H.264: 30 fps (1280 x 1024)<br>JPEG: 30 fps (1280 x 1024)  |
| Bitrate Control Mode       | CBR/VBR (selectable)   |
| Range of Bit Rate Setting  | 64 Kbps to 32 Mbps   |
| Solid PTZ                  | Yes  |
| Adaptive Rate Control      | H.264  |
| Bandwidth Control          | JPEG   |
| Multi streaming Capability | Yes (3)  |
| Number of Clients          | 20   |

## Intelligent Video/Audio Analytics

Analytics Architecture DEPA Advanced

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

## 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<br>Windows 8 Pro (32/64 bit)<br>Windows 8.1 Pro (32/64 bit) |
| Processor        | Intel Core i7 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)   |



|                    |  |
|--------------------|--|
|                    | 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 199 mm (with lens) |

|                    |  |
|--------------------|--|
|                    | lens)<br>3 7/8 x 2 1/2 x 7 7/8 inches (with lens)  |
| Mass               | Approx. 485 g (with lens)<br>Approx. 1 lb 1.1 oz (with lens)   |
| External Material  | Top cover: SECC-CF<br>Bottom cover: SECC-CF<br>Front panel: PC+ABS<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 3.9PB 0.3/1.0<br>Rear panel: Munsell 4.4BG 8.4/0.2   |
| Fire Retardant     | UL2044   |
| 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)<br>KCC |

EMC-TR

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|                      |                                |
|----------------------|--------------------------------|
|                      | CD-ROM (supplied programs) (1) |
|                      | Installation Manual (1)        |
| Supplied Accessories | Wire rope (1)                  |
|                      | Screw (M4 × 8) (1)             |
|                      | Safety regulations (1)         |

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Notes

\*1 The values for dimensions are approximate.

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Related products



**FWL-65W855C**  
65" BRAVIA Professional Full HD Colour LED Display



**FWL-75W855C**  
75" BRAVIA Professional Full HD Colour LED Display



**FWL-55W805C**  
55" BRAVIA Professional Full HD Colour LED Display



**FWL-40W705C**  
40" BRAVIA Professional Full HD Colour LED Display



**FWL-48W705C**  
48" BRAVIA Professional Full HD Colour LED Display



**SNCA-CEILING**  
Mounting coupling for pendant applications



**SNCA-POLE30**  
Mounting pipe for pendant mount applications



**SNCA-WMFX10PC**  
Wall/Ceiling camera bracket



## SNCA-WM40

Heavy duty outdoor wall mount for the SNC-RS84P, SNC-RS86P and SNC-RH164 rapid dome cameras



## UNI-WMB3

Wall mount bracket for PTZ dome mount security camera housings



## UNI-XBS1/T

Silver bracket for SNC-CH110S and SNC-CH210S



## UNI-OPL7C3

Outdoor Pressurized dome camera housing



## SNCA-HRX550/EXTD2VBC6

Robust, IP66 rated dome housing for Sony PTZ cameras



## UNI-D2VBC6

Pressurized temperature controlled vandal-resistant security camera housing



## UNI-OTBC2

Temperature-controlled vandal resistant outdoor security camera housing

## Gallery

