SONY

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.

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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.

Specifications

Camera

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) 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) 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
	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 Digital zoom 4x 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) 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 Windows Vista (32 bit) Ultimate, Business Edition Windows 7 (32/64 bit) Ultimate, Professional Edition Windows 8 Pro (32/64 bit) Windows 8.1 Pro (32/64 bit)
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 Firefox Ver. 19.02 (plug-in free viewer only)

	Safari Ver. 5.1 (plug-in free viewer only) 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 *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 14°F to 140°F
Cold Start Temperature	0°C to +60°C 32°F to 140°F
Storage Temperature	-20 °C to + 60 °C -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) 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)
	3 7/8 x 2 1/2 x 7 7/8 inches (with lens)
Mass	Approx. 485 g (with lens) Approx. 1 lb 1.1 oz (with lens)
External Material	Top cover: SECC-CF Bottom cover: SECC-CF Front panel: PC+ABS Rear panel: PC + ABS
External Color	Top cover: Munsell 3.6GY 8.4/0.3 Bottom cover: Munsell 3.6GY 8.4/0.3 Front panel: Munsell 3.9PB 0.3/1.0 Rear panel: Munsell 4.4BG 8.4/0.2
Fire Retardant	UL2044
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) KCC

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

Notes	
*1	The values for dimensions are approximate.

Gallery