

## SNC-EM630

Minidome 1080p/30 fps Camera  
Powered by IPELA ENGINE EX™ -  
E Series



### Overview

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

This compact, easy to install minidome network camera brings crisp, clear Full 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.

The SNC-EM630 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 G6 (sixth generation) camera family, 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 for data transfer, reducing installation complexity and costs.

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

Remotely view live camera images and control PTZ position 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 0.1 lx. During the day, the IR-cut filter assures excellent image clarity and colour accuracy, even in bright sunlight.

## 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

White Balance	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual
Lens	Built-in varifocal lens
Easy Zoom	Yes
Zoom Ratio	Optical zoom 3x Digital zoom 4x Total zoom 12x
Easy Focus for Setup	Yes
Horizontal Viewing Angle	105.3° to 35.6°
Vertical Viewing Angle	56.9° to 20.1°
Viewing Tilt Angle	127.6°
Focal Length	f = 3.0 mm to 9.0 mm
F-Number	F1.2 (Wide) to F2.1 (Tele)
Minimum Object Distance	300 mm
Pan/Tilt/Rotation Angle (manual)	±192° -7° to +75° -99° to +99°

## Camera Features

Day/Night	True D/N
Day/Night linked with Easy Focus	Yes
e-Flip	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
	3 independent positions for

Superimpose Number	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
Smartphone viewer	Yes
<b>Video</b>	
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 (1920 x 1080) JPEG: 30 fps (1920 x 1080)
Bitrate Control Mode	CBR/VBR (selectable)

Range of Bit Rate Setting	64 Kbps to 32 Mbps
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Solid PTZ	Yes
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Adaptive Rate Control	H.264
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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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Windows XP (32 bit) Professional



Operating System	<p>Edition</p> <p>Windows Vista (32 bit) Ultimate, Business Edition</p> <p>Windows 7 (32/64 bit) Ultimate, Professional Edition</p> <p>Windows 8 Pro (32/64 bit)</p> <p>Windows 8.1 Pro (32/64 bit)</p>
Processor	Intel Core i7 2.8 GHz or higher
Memory	2 GB or more
Web Browser	<p>Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0, Ver. 11.0</p> <p>Firefox Ver. 19.02 (plug-in free viewer only)</p> <p>Safari Ver. 5.1 (plug-in free viewer only)</p> <p>Google Chrome Ver. 25.0 (plug-in free viewer only)</p>
SNC toolbox	Yes
SNC toolbox mobile	Yes

## Network

IPv4, TCP, UDP, ARP, ICMP, IGMP\*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, SMTP over HTTP,

Protocols	IPv6, HTTPS, FTP (client), SNMP (v1, v2c, v3), SSL *SSM (Source Specific Multicast) is supported.
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Number of IP Address/Mac ADDRESS	1
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QoS	DSCP
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Multicast Streaming Support	Yes
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ONVIF Conformance	Profile S, Profile T
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Authentication	IEEE802.1X
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## Interface

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

Power Requirements	IEEE 802.3af compliant (PoE system)
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Power Consumption	5.0 W max.
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Operating Temperature	-10°C to +50°C 14°F to 122°F
Cold Start Temperature	0°C to +50°C 32°F to 122°F
Storage Temperature	-20 °C to + 60 °C -4 °F to + 140 °F
Operating Humidity	20 % to 80 %
Storage Humidity	20 % to 95 %
Built-in Heater	Yes
Dimensions *1	φ148 x 108 mm φ5 7/8 inches x 4 3/8 inches
Mass	Approx. 760 g Approx. 1 lb 11 oz
External Material	Top cover: ABS + PC Dome cover: PC
External Color	Top cover: Munsell 4.4BG 8.4/0.2
Fire Retardant	UL2044
	JATE Technical standard (LAN) UL2044, IEC60950-1 (CB) VCCI (Class A), FCC (Class A), IC (Class A) Emission: EN55022 (Class A) +

Safety Regulations 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)  
 Template (1)  
 Screw M3 (1)  
 Bracket (1)  
 Wire rope (1)  
 Safety regulations (1)

Optional Accessories YT-ICB600 (In-ceiling bracket)  
 YT-LD600S (Smoke dome cover)

## Notes

\*1 The values for dimensions are approximate.

## Related products



**UNI-**



**UNI-**



**UNI-BBB1**

Wall/pole mount



**UNI-UMB1**

Indoor wall mounting

## **MDPDH180**

Pendant Mount  
Adaptor for outdoor  
Minidome Cameras

## **MDPDH120**

Pendant mount for  
indoor E Series and V  
Series minidome  
cameras

adapter box for Sony  
SNC-CH outdoor  
series video security  
cameras

bracket for minidome  
and PTZ cameras

## Gallery

