

## SNC-XM632

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



### Overview

#### **Powered by IPELA ENGINE EX™: ideal for outdoor surveillance and commercial vehicle applications**

The rugged SNC-XM632 minidome IP camera is suited to a wide range of security and surveillance environments indoors and outside – from retail and mall entrances to bank ATMs, educational campuses or car park exits.

Further broadening its versatility, the camera is engineered to cope with the specific demands of video monitoring inside road vehicles such as buses, where its compact form and flat finish help it blend neatly into its surroundings.

Full HD picture quality is assured by the sensitive, high-resolution Exmor™ CMOS sensor that's teamed with Sony's latest-generation IPELA ENGINE EX signal processing system. Every scene looks clearer, sharper and more detailed – even in challenging low-light conditions or with harsh backlighting. Extra intelligence is added by DEPA Advanced Intelligent Video Analytics that can intelligently trigger an alarm based on user-defined rules.

Full HD pictures from the wide-angle (113 degree horizontal field of view) lens are fine-tuned by Sony's IPELA ENGINE EX™ processing engine. This delivers wide dynamic range and cuts

noise for crisp, clear results – even in less-than-perfect lighting conditions. Built-in image stabilisation reduces the effects of vibration, making it easier to see what’s happening. As an extra refinement, a built-in microphone captures audio that can be recorded along with video for live monitoring or later analysis.

The camera supports image rotation, enabling a vertical image format also known as corridor view, ideal for video security and surveillance applications in corridors and hallways. This extra mode electronically flips the camera image through a quarter turn, presenting a correctly oriented 9:16 vertical ‘portrait’ view at Full HD resolution and no wasted pixels.

For even greater flexibility, there is a choice of three optional lenses to accommodate a wide range of (83°, 51° and 25°) horizontal viewing angle requirements.

Ideal for surveillance in buses or commercial transportation, the SNC-XM632 complies with ISO 16750 electrical standards for use inside road vehicles. The camera is vandal resistant with IK10 rating, and carries an IP66 Ingress Protection rating against dust and water.

## Features

### **Ideal for indoor and outdoor applications, including buses and commercial vehicles**

The camera is compliant with ISO 16750, meeting safety regulations for outdoor surveillance and commercial vehicle applications such as on board buses.

### **See every detail with Full HD quality**

The sensitive, high-resolution Exmor CMOS sensor captures crisp, detail-packed Full HD (1920 x 1080) video images.

### **Wide angle lens**

A horizontal viewing angle of 113 degrees makes the camera

ideal for applications like road transportation where a wide field of view is essential inside the confines of a vehicle.

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

High quality imaging is assured by Sony's unique IPELA ENGINE EX signal processing platform that combines powerful signal processing with intelligent video analytics technologies. XDNR (eXcellent Dynamic Noise Reduction) assures clear low-light images, while Visibility Enhancer (VE) dynamically optimises brightness and colour reproduction on a pixel-by-pixel basis. Extra intelligence is added by DEPA Advanced analytics with face detection that can trigger alarms based on user-determined rules.

## **Wide dynamic range**

Innovative View-DR technology achieves a dynamic range equivalent to 90 dB, capturing objects clearly and adaptively – even with harsh backlighting or sun-drenched highlights.

## **Excellent low-light sensitivity**

The camera is capable of capturing clear images in very low light conditions: minimum illumination of 0.3 lx in Colour mode and 0.3 lx in B/W mode (at 50 IRE ).

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

Electronic Day/Night function automatically switches the camera between Day (colour) and Night (B/W) modes, depending on light levels.

## **Steadier, more stable images**

The in-built image stabiliser reduces the effects of camera shake or mechanical vibration for steadier images with reduced blur.

## **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.

### **Automatic edge recording to memory card**

Edge Storage allows recording of video and audio directly to an optional SD/SDHC card for later analysis.

### **Built-in microphone**

Capture crisp, clear audio to hear what's happening in the camera's vicinity.

### **Power over Ethernet**

The camera is powered using PoE (IEEE 802.3af) via a standard RJ-45 connector, simplifying installation and eliminating the need for additional power cables.

### **Flexible installation with three-axis lens adjustment**

Ideal for use in indoor or outdoor areas, the camera can operate over a wide range of temperatures from -25 °C to +50°C. It carries an IK10 rating for vandal resistance and is IP66 rated against ingress by water and dust. A tamper alarm provides further protection against unwanted interference.

### **View with your smartphone**

Securely access the camera using a smartphone or tablet (Android or iOS) to view images remotely.

### **Easy IP network configuration**

Configuration of network settings is made quick and simple using the supplied SNC Easy IP Setup application.

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

## compliance

Support for ONVIF simplifies integration with a wide range of VMS platforms and hardware, providing video streaming and camera control. 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.

## Specifications

### Camera

Image Sensor	1/2.9-type progressive scan Exmor CMOS sensor
Number of Effective Pixels	Approx. 2.14 Megapixels
Minimum Illumination (50 IRE)	Color: 0.3 lx (F2.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) B/W: 0.3 lx (F2.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Minimum Illumination (30 IRE)	Color: 0.18 lx (F2.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) B/W: 0.18 lx (F2.0, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Dynamic Range	Equivalent to 90 dB with View-DR technology
Gain	Auto

Shutter Speed	1/1 s to 1/10,000 s
Exposure Control	Exposure compensation, Shutter speed
White Balance	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual
Lens	Fixed lens
Zoom Ratio	Digital zoom 4x Total zoom 4x
Horizontal Viewing Angle	113°
Vertical Viewing Angle	61°
Viewing Tilt Angle	151°
Focal Length	f = 2.8 mm
F-Number	F2.0
Pan/Tilt/Rotation Angle (manual)	±30° 0° to +90° -175° to +175°

## Camera Features

Day/Night	Electronic D/N
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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
Edge Storage	Yes
Compatibility with Cloud Service	Yes
Vandal Resistant	IK10
Ingress Protection	IP66

Superimpose Number	3 independent positions for characters (Codec, Date & Time, Event, Text (Max. 64 characters)), 1 independent position for a logo mark
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Superimpose Language	English
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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

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)
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Compression Format	H.264 (High/Main/Baseline Profile), JPEG
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Maximum Frame Rate	H.264: 30 fps (1920 x 1080) JPEG: 30 fps (1920 x 1080)
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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
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

## Audio

Compression Format G.711/G.726/AAC (16 kHz, 48 kHz)

## 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 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  
 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.
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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

Microphone Input	Built-in microphone
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Network Port	10BASE-T/100BASE-TX (RJ-45)
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Card Slots	SD x 1
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Confirmed SD Card	SDHC (no support for SDXC)
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Type

## General

Power Requirements	IEEE 802.3af compliant (PoE system)
Power Consumption	10 W (heater enabled), 3.8 W (heater disabled, equivalent to PoE CLASS 1)
Operating Temperature	-25 °C to +50 °C -13°F to +122°F
Cold Start Temperature	-20 °C -4°F
Storage Temperature	-30 °C to + 60 °C -22 °F to + 140 °F
Operating Humidity	20 % to 80 %
Storage Humidity	20 % to 80 %
Built-in Heater	Yes
Heater Working Temperature	0 °C or less 32 °F or less
Dimensions *1	φ114 mm x 47 mm 4 1/2 inches x 1 7/8 inches

Mass	Approx. 270 g Approx. 9.5 oz
External Material	Top cover/Dome cover : PC (Polycarbonate)
External Color	Top cover: Munsell 4.5G 8.5/0.0
Fire Retardant	UL2044
Safety Regulations	JATE Technical standard (LAN) UL2044, UL50, IEC60950-1 (CB),IEC60529, IEC62262 VCCI Class B, FCC Class B, IC Class B, Emission: EN55022 (Class B) + EN50130-4 Immunity: EN55022 (Class B) + EN55024, Emission: AS/NZS CISPR22 (Class B) EAC (GOST-R)
Supplied Accessories	CD-ROM (supplied programs) (1) Installation Manual (1) Template (1) Safety regulations (1) Warranty booklet (1) Lens adjusting tool (1) Wrench (1) Screws (4)

## Mounting adapter (1)

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### Notes

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The values for dimensions are approximate.

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## Gallery

