

## 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)<br>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)<br>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<br>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°<br>0° to +90°<br>-175° to +175°  |

## Camera Features

|           |                |
|-----------|----------------|
| Day/Night | Electronic D/N |
|-----------|----------------|

|                                     |   |
|-------------------------------------|---|
| 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<br>(number)         | 20  |
| Privacy Masking<br>(shape)          | Quadrangle formed by any four<br>corner points  |
| Privacy Masking<br>(color/effect)   | Opaque 14 colors (Black, White,<br>Red, Green, Blue, Cyan, Yellow,<br>Magenta, Gray (6 scales)), Mosaic |
| Edge Storage                        | Yes   |
| Compatibility with<br>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                          |
| 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 (1920 x 1080)<br>JPEG: 30 fps (1920 x 1080)  |
| 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 |

## Audio

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

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## 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)

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Processor Intel Core i7 2.8 GHz or higher

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Memory 2 GB or more

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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)

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SNC toolbox Yes

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SNC toolbox mobile Yes

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## 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

|                  |                     |
|------------------|---------------------|
| Microphone Input | Built-in microphone |
|------------------|---------------------|

|              |                             |
|--------------|-----------------------------|
| Network Port | 10BASE-T/100BASE-TX (RJ-45) |
|--------------|-----------------------------|

|            |        |
|------------|--------|
| Card Slots | SD x 1 |
|------------|--------|

|                   |                            |
|-------------------|----------------------------|
| Confirmed SD Card | SDHC (no support for SDXC) |
|-------------------|----------------------------|

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<br>-13°F to +122°F                                       |
| Cold Start Temperature     | -20 °C<br>-4°F  |
| Storage Temperature        | -30 °C to + 60 °C<br>-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<br>32 °F or less   |
| Dimensions *1              | φ114 mm x 47 mm<br>4 1/2 inches x 1 7/8 inches                            |

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

## Mounting adapter (1)

### Notes

\*1

The values for dimensions are approximate.

### 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

## Gallery

