

## SNC-EM631

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



### Overview

**Monitor and protect people, property and other assets with this Full HD network camera that's vandal-resistant for use in a wide range of 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.

The camera's vandal-resistant design meets IK10 standards, making the SNC-EM631 ideal for use in environments where there's a risk of physical tampering.

Sony's Exmor CMOS sensor captures crisp, clear, low-noise Full HD images for dependable monitoring – even in tricky low-light situations.

The SNC-EM631 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

### **Vandal resistant**

The camera's vandal-resistant design meets IK10 standards (protection against mechanical impact), making the SNC-EM631 ideal for use in environments where there's a risk of physical tampering or damage.

### **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)<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) |
|                               | Equivalent to 90 dB with View-DR   |

|                          |   |
|--------------------------|---|
| Dynamic Range            | 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<br>Digital zoom 4x<br>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°<br>-7° to +75°<br>-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  |
| Vandal Resistant               | IK10   |
| 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 |

## 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)<br>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 | Phono 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 +50°C<br>14°F to 122°F               |
| Cold Start Temperature | 0°C to +50°C<br>32°F to 122°F                 |
| Storage Temperature    | -20 °C to + 60 °C<br>-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<br>φ5 7/8 inches x 4 3/8 inches |
| Mass                   | Approx. 800 g<br>Approximate 1 lb 12 oz       |

|                      |  |
|----------------------|--|
| External Material    | Top cover: PC<br>Dome cover: PC  |
| External Color       | Top cover: 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<br>EMC-TR |
| Supplied Accessories | CD-ROM (supplied programs) (1)<br>Installation Manual (1)<br>Template (1)<br>Screw M3 (1)<br>Wrench (1)<br>Bracket (1)<br>Wire rope (1)<br>Safety regulations (1)  |
| Optional Accessories | YT-ICB600 (In-ceiling bracket)<br>YT-LD601S (Smoke dome cover)   |

## 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



#### **UNI-MDPDH120**

Pendant mount for  
indoor E Series and V  
Series minidome  
cameras



#### **UNI-UMB1**

Indoor wall mounting  
bracket for minidome  
and PTZ cameras

## Gallery

