

## SNC-EM600

Minidome 720p/30 fps Camera  
Powered by IPELA ENGINE EX™ -  
E Series



### Overview

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

This compact, easy to install minidome network camera brings crisp, clear 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 HD images for dependable monitoring – even in tricky low-light situations.

The SNC-EM600 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 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 HD 720p 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 HD picture quality. View-DR combines images taken at different shutter speeds, delivering a wide dynamic range up to 130 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 0.05 lx. During the day, the IR-cut filter assures excellent image clarity and colour accuracy, even in bright sunlight.

## Specifications

### Camera

|                               |  |
|-------------------------------|--|
| Image Sensor                  | 1/3-type progressive scan Exmor CMOS sensor  |
| Number of Effective Pixels    | Approx. 1.37 Megapixels  |
| Signal System                 | NTSC/PAL (switchable)  |
| Sync System                   | Internal synchronization   |
| Minimum Illumination (50 IRE) | Color: 0.05 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)<br>B/W: 0.04 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) |
| Minimum Illumination (30 IRE) | Color: 0.03 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)<br>B/W: 0.02 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) |
| Dynamic Range                 | Equivalent to 130 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<br>Digital zoom 4x<br>Total zoom 12x  |
| Easy Focus for Setup             | Yes   |
| Horizontal Viewing Angle         | 92.9° to 31.8°  |
| Vertical Viewing Angle           | 73.1° to 25.5°  |
| Viewing Tilt Angle               | 121.5°  |
| 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 |
|                                  | 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           | 1280 x 1024, 1280 x 960, 1024 x 768, 1280 x 720, 800 x 600, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 352 x 288, 320 x 240 (H.264, JPEG)                     |
| Compression Format   | H.264 (High/Main/Baseline Profile), JPEG   |
| Maximum Frame Rate   | H.264: 30 fps (1280 x 1024)<br>JPEG: 30 fps (1280 x 1024)  |
| 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



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|--------------------|--|
| 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<br>*SSM (Source Specific Multicast) is supported. |
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|----------------------------------|---|
| Number of IP Address/Mac ADDRESS | 1 |
|----------------------------------|---|

|     |      |
|-----|------|
| 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<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. 760 g<br>Approx. 1 lb 11 oz  |
| External Material      | Top cover: ABS + PC<br>Dome cover: PC  |
| External Color         | Top cover: Munsell 4.4BG 8.4/0.2   |
| Fire Retardant         | UL2044   |
|                        | JATE Technical standard (LAN)<br>UL2044, IEC60950-1 (CB)<br>VCCI (Class A), FCC (Class A), IC (Class A)<br>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-BBB1**

Wall/pole mount



**UNI-UMB1**

Indoor wall mounting

## **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

