

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 optimised 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

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|-------------------------------|--|
| 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) 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) 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 |

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|----------------------------------|---|
| 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 | 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° -7° to +75° -99° to +99° |

Camera Features

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|----------------------------------|---|
| 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 |
| Video | |
| 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) JPEG: 30 fps (1280 x 1024) |
| 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

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|------------------------------|---|
| 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

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,

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|----------------------------------|--|
| Protocols | IPv6, HTTPS, FTP (client), SNMP (v1, v2c, v3), SSL *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

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

General

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|--------------------|-------------------------------------|
| Power Requirements | IEEE 802.3af compliant (PoE system) |
| 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-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

