

The new Megapixel range of Mini-dome and fixed network security cameras combine outstanding resolution with advanced Sony image processing to deliver exceptional solutions for security professionals.

# Enhanced clarity Practical intelligence

The new generation of Sony Megapixel Network cameras with 1.3 Megapixel resolution provide you with clear, detailed, and amazingly bright images for surveillance and security monitoring. Indoor, or outdoor, the Sony Megapixel range has been specifically designed to make a proactive contribution to your security operations:

- **High resolution** – 1.3 Megapixels – provides the clarity you need for detailed identification of faces or vehicle license plates, while working within standard bandwidth and storage capacities
- **High sensitivity** provided by unique Sony ExwavePRO and Light Funnel Function enables bright, clear imagery in bright, or dark lighting environments, without image blur
- **Intelligent Motion Detection** reduces false alarms and enables you to set alarms based on movement parameters
- **Simple installation** and reliable operation in even harsh environments is ensured by Sony design and build

This new generation of Megapixel network cameras introduces enhanced clarity and practical intelligence into any security or surveillance operation. From airports, stadiums and shopping malls, to corporate, banking car parks and public spaces, the Megapixel range will extend your capability to protect people, property, products and services.

## Megapixel resolution provides forensic detail

With 1.3 Megapixels, this new generation delivers sharp and vivid images, at even wide viewing angles. Ideal for forensic details in security applications like building entrances and car parks, the Megapixel range gives you the level of identification detail you need without creating over-large files or causing bandwidth problems.



1.3 Megapixel resolution VGA resolution

## ExwavePRO technology with sophisticated Progressive Scan CCD – designed for challenging security environments

These new Megapixel cameras use ExwavePRO technology, combining a progressive scan CCD with a complimentary colour filter to deliver high sensitivity levels and clear, crisp images in even the most difficult lighting conditions. Complimentary colour filters allow more light to reach the CCD when compared to primary (RGB) colour filters more commonly used, providing you with better surveillance images.



Heating option allows operation in environments as low as -30°C

The Megapixel range gives you the detail you need without large file problems

Sony Intelligent Motion Detection will automatically track moving people and objects

Megapixel clarity - backed up by superior CCD and Optics

## Delivering exceptional images

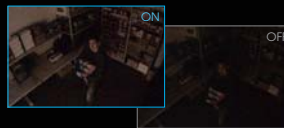


ExwavePRO

Day/night mode, when used in conjunction with ExwavePRO technology, will dramatically improve night-time sensitivity, increasing visibility for operators and enhance the quality of archive footage.

## Light Funnel Function delivers high sensitivity without blur

Light Funnel Function<sup>1</sup> enables image data for every two pixels to be combined horizontally and vertically to create a three-fold increase in sensitivity at normal shutter speeds. Unlike systems that use slow shutter speeds to enhance brightness, Light Funnel Function improves brightness without inducing blur, providing you with extremely bright images even when monitoring moving objects at dusk.



Light Funnel Function can be activated automatically in response to surrounding light conditions or you can set-up a pre-specified time schedule.

<sup>1</sup>When the light funnel function is activated, the image resolution is 640 x 480 (VGA).

## Solid PTZ and cropping enhance your surveillance flexibility

With electronic Pan Tilt Zoom (PTZ) capability, your operators can immediately focus on any activity that interests them within the field of vision. Advanced cropping capability enables them to quickly isolate areas of interest or suspicious targets and capture all the relevant detail for future reference with minimum files sizes.

## Intelligent Motion Detection provides constant vigilance



Intelligent Motion Detection has been seen to greatly reduce the number of false positives and false alarms, whilst crucially improving response times to real incidents.

Working with the Solid PTZ function, Sony Intelligent Motion Detection will automatically track moving people and objects within the field of view. It has the ability to ignore background noise like falling leaves or regular car movements, but can be programmed to alert operators to abnormal movement. This could be abandoned bags in a busy shopping mall, intrusion in a secure area, or removal of a fixed item like a picture in a gallery.



## Versatile range

### SNC-DM160

Ruggedised Mini-dome day-night camera

The SNC-DM160 1.3 Megapixel Mini-dome network camera incorporates a powerful vari-focal 3.6x zoom lens, offering a wide viewing angle of over 100 degrees. The Sony patented Ball-Joint Lens Mount mechanism provides multi-directional coverage and quick focus adjustment ensures fast, accurate operation. The SNC-DM160 is housed in a heavy-duty vandal-resistant, wall or ceiling mountable die-cast enclosure with an impact-resistant polycarbonate dome.

It complies with the IP66\* standard for protection against water and dust. The built-in heater means it can operate down to severe temperatures as low as -30 °C (-22 °F). The SNC-DM160 camera can switch from day mode (colour) to night mode (B/W). You can preset the camera so it can toggle between day mode and night mode based on your own pre-sets or use an automatic settings in response to surrounding light conditions.

### SNC-DM110

Mini-dome indoor camera

Sharing many of the exceptional features of the DM160, the 1.3 Megapixel SNC-DM110 is designed for interior use. Its vari-focal 3.4x zoom lens offers the same wide-angle coverage and its feature-rich capability makes it perfect for corporate, retail, education, airports, stadiums and public applications.

### SNC-CM120

Fixed camera

The 1.3 Megapixel SNC-CM120 is ideal for both indoor and outdoor use. It's compact and slim body inherited from CCTV cameras, together with all the image processing features common to this range, make it an ideal tool for entrance, lobby, concourse and external surveillance applications.



The SNC-DM160 1.3 Megapixel Mini-dome network camera incorporates a powerful vari-focal 3.6x zoom lens.

- Progressive Scan CCD
- ExwavePRO Technology
- Megapixel - High Resolution
- Light Funnel Function
- JPEG Picture Quality Settings
- Constant Bitrate Algorithm
- Variable Gamma Settings
- Wall or Ceiling-mountable
- Easy Viewing Angle Adjustment
- Vari-focal Zoom Lens/Wide Viewing Angle
- Quick Focus Adjustment
- Ball-Joint Lens Mount Technology
- Ruggedised option
- JPEG and MPEG-4 Compression Formats
- Dual-encoding Capability
- Day/Night Function option
- Bi-directional Audio
- Voice Alert
- DEPA Intelligent Video Analysis option
- Intelligent Motion Detection
- Sensor IN/Alarm OUT Ports
- IEEE802.1X Compliant
- Solid PTZ/Cropping Functions
- Date/Time Superimposition
- Privacy Zone Masking
- Analogue Composite Video Output
- 24 V AC, 12 V DC, or PoE Operation
- Full Network capability
- Simultaneous Access for up to 10 Users
- Multicasting Capability



**SNC-DM160**  
Ruggedised Mini-dome day-night camera



**SNC-DM110**  
Mini-dome indoor camera



**SNC-CM120**  
Fixed camera

# IPELA

Sony IPELA Network Video Monitoring solutions offer cost benefits and flexibility in the applications of Security, Surveillance and Remote Monitoring. Complete solutions offer customers a choice of IP cameras, Network Video Recorders and Management Software.

## Reality

- Megapixel - High Resolution
- Light Funnel Function and ExwavePRO for High Sensitivity

## Intelligence

- Intelligent Motion Detection

## Usability

- JPEG and MPEG-4 Compression Formats
- Dual Encoding Capability
- Multicasting Capability

## Technical specifications

### SNC-DM160

<b>General</b>	
Mass Approx.	1.4 kg (3 lb 1 oz)
Dimensions (W x H x D)	Approx. 166 x 119 mm (6 5/8 x 4 3/4 inches)
Power requirements	PoE (IEEE802.3af)/AC24V/DC12 V
Power consumption	15 W max.
Operating temperature	-30 to 50°C (22 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
<b>Camera</b>	
Image device	1/3-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	Approx. 1,200,000
Number of effective pixels	1,250,000 (1296 x 966)
Electronic shutter	1 to 1/10,000 s
Gain control On/Off	(0 dB to +36 dB)
Exposure control	Auto, Back-Light-Compensation (BLC), Gamma settings
White balance mode	ATW, ATW Pro
Lens type	Vari-focal lens
Zoom ratio	3.4x optical zoom (2x digital zoom)
Horizontal viewing angle	100.3° to 29°
Focal length	f=2.8 to 10.0 mm
F number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300 mm
<b>Image</b>	
Image size (H x V)	JPEG 1280 x 960, 960 x 720, 768 x 576, 640 x 480, 384 x 288, 320 x 240 MPEG-4 640 x 480, 384 x 288, 320 x 240
Maximum frame rate	30 fps (640 x 480), 15 fps (1280 x 960, 768 x 576)
<b>Audio</b>	
Audio compression	G.711/G.726 (40, 32, 24, 16 Kbit/s)
<b>Network</b>	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, UDP
Number of clients	10
Authentication	IEEE802.1X
<b>Interfaces</b>	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Analogue video output	BNC x 1, 1.0 Vp-p, 75 Ω, RCA x 1
I/O port	Sensor in x 1, Alarm out x 2
External microphone	Mini-jack x1 (Mic in: monoaural, 2.2 kΩ DC 2.5 V plug-in power, Line in: monoaural)
Input/Line input	Mini-jack (monoaural), max output level: 1 Vrms
Audio line output	Mini-jack (monoaural), max output level: 1 Vrms
<b>Analogue video output</b>	
Horizontal resolution	600 lines
S/N ratio	more than 50 dB
Minimum illumination	Colour: 0.8 lx (50IRE, F1.3, AGC 30dB) B/W: 0.15 lx (50IRE, F1.3, AGC 30dB)
<b>System requirements</b>	
Operating system	Microsoft® Windows® XP/VISTA
Processor CPU	Intel® Pentium® IV 3 GHz or higher, Intel Core2 Duo, 2 GHz or higher
Memory RAM	1 GB or more
Web browser	Microsoft Internet Explorer® Ver. 6.0 or Higher
<b>Supplied accessories</b>	
CD-ROM (User's guide, IP setup program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation manual, Bracket, Template, Torx wrench, M4 screws (4), Wire rope, M4 shoulder screw, Audio cable, I/O cable, LAN cable, BNC cable, Power input cable	

### SNC-DM110

<b>General</b>	
Mass Approx.	780 g (1 lb 11 oz)
Dimensions (W x H x D)	Approx. 140 x 118 mm (5 5/8 x 4 3/4 inches)
Power requirements	PoE (IEEE802.3af)/AC24V/DC12 V
Power consumption	8 W max.
Operating temperature	-30 to 50°C (22 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
<b>Camera</b>	
Image device	1/3-type Progressive Scan CCD with ExwavePRO Technology
Number of total pixels	Approx. 1,200,000
Number of effective pixels	1,250,000 (1296 x 966)
Electronic shutter	1 to 1/10,000 s
Gain control On/Off	(0 dB to +36 dB)
Exposure control	Auto, Back-Light-Compensation (BLC), Gamma settings
White balance mode	ATW, ATW Pro
Lens type	Vari-focal lens
Zoom ratio	3.4 x optical zoom (2x digital zoom)
Horizontal viewing angle	100.3° to 29°
Focal length	f=2.8 to 9.5 mm
F number	F1.3 (wide), F2.9 (tele)
Iris	CCD Iris
Minimum object distance	300 mm
<b>Image</b>	
Image size (H x V)	JPEG 1280 x 960, 960 x 720, 768 x 576, 640 x 480, 384 x 288, 320 x 240 MPEG-4 640 x 480, 384 x 288, 320 x 240
Maximum frame rate	30 fps (640 x 480), 15 fps (1280 x 960, 768 x 576)
<b>Audio</b>	
Audio compression	G.711/G.726 (40, 32, 24, 16 Kbit/s)
<b>Network</b>	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP, SMTP, DHCP, SNMP, DNS, NTP, RTP/RTCP, UDP
Number of clients	10
Authentication	IEEE802.1X
<b>Interfaces</b>	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Analogue video output	BNC x 1, 1.0 Vp-p, 75 Ω, RCA x 1
I/O port	Sensor in x 1, Alarm out x 2
External microphone	Mini-jack x1 (Mic in: monoaural, 2.2 kΩ DC 2.5 V plug-in power, Line in: monoaural)
Input/Line input	Mini-jack (monoaural), max output level: 1 Vrms
Audio line output	Mini-jack (monoaural), max output level: 1 Vrms
<b>Analogue video output</b>	
Horizontal resolution	600 lines
S/N ratio	more than 50 dB
Minimum illumination	Colour: 0.8 lx (50IRE, F1.3, AGC 30dB) B/W: 0.15 lx (50IRE, F1.3, AGC 30dB)
<b>System requirements</b>	
Operating system	Microsoft® Windows® XP/VISTA
Processor CPU	Intel® Pentium® IV 3 GHz or higher, Intel Core2 Duo, 2 GHz or higher
Memory RAM	1 GB or more
Web browser	Microsoft Internet Explorer® Ver. 6.0 or Higher
<b>Supplied accessories</b>	
CD-ROM (User's guide, IP setup program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer), Installation manual, Bracket, Template, Torx wrench, M4 screws (4), Wire rope, M4 shoulder screw, Audio cable, I/O cable, LAN cable, BNC cable, Power input cable	

### SNC-CM120

<b>General</b>	
Mass	Less than 700g
Dimensions (W x H x D)	82.5 x 63 x 187.5 (W x H x D mm) including Lens
Power requirements	PoE (IEEE-802.3af), AC24V, DC12V
Power consumption	8 W max.
Operating temperature	0C to +50C
Storage temperature	-20C to +60C
<b>Camera</b>	
Image device	1/3 type progressive scan CCD imager
Number of effective pixels	1,250,000 pixels, 1,296 (H) x 966 (V)
Electronic shutter	N/A
Gain control	AGC (Auto Gain Control)
Exposure control	N/A
White balance mode	N/A
Lens type	2.1x vari-focal lens
Zoom ratio	Optical x 2.1 (x 2 Digital Zoom)
Horizontal viewing angle	100.7 - 47 degrees
Focal length	f=2.6 - 5.0mm
F number	F1.3 (Wide end), F1.9 (Tele end)
Other functions	Pre/post-alarm recording
<b>Image</b>	
Image size (H x V)	JPEG 1280 x 960, 960 x 720, 768 x 576, 640 x 480, 384 x 288, 320 x 240 MPEG-4 640 x 480, 384 x 288, 320 x 240
Maximum frame rate	30 fps (640 x 480), 15 fps (1280 x 960, 768 x 576)
<b>Audio</b>	
Audio compression	G.711 (64kbps), G.726 (40, 32, 24, 16kbps)
<b>Network</b>	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Analogue video output	Composite video (1Vp-p)
I/O port	Sensor input x 1, Alarm output x 2
External microphone input	Mini-jack (Monoaural), 2.2kΩ, 2.5VDC plug-in power
Audio line output	Mini-jack (Monoaural), Max output level: 1 Vrms
<b>Analogue Video Output</b>	
Signal system	NTSC / PAL
Horizontal resolution	600 lines
S/N ratio	more than 50dB (AGC OFF, Weight ON)
Minimum illumination	1.2 lx (Colour), 0.15 lx (B/W) at F1.3 (Tentative)
<b>System Requirements</b>	
Operating system	Windows XP/ Windows Vista
Processor	Pentium4 3GHz, Intel Core 2 Duo 2GHz or higher
Memory	1GB or more
Web browser	Microsoft Internet Explorer Ver. 6.0 or higher
<b>Supplied accessories</b>	
CD-ROM (User's guide, IP setup program, Audio Upload Tool, Privacy Masking Tool, Video Player, Custom Homepage Installer, Easy Setup Guide), Installation manual, Wire rope	

SNC-DM160

SNC-DM110

SNC-CM120



Megapixel from Sony - exceptional cameras for security professionals



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