#### CENTRA SECURITY SYSTEMS (uk)

www.centrasecurity.co.uk

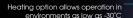
The new Megapixel range of Mini-dome and fixed network security cameras combine outstanding resolution with advanced Sony image processing to deliver exceptional solutions for security professionals.

# 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
- Simple installation and reliable

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.



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

### 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 auick 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 settinas in response to surrounding light

#### 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 wideangle coverage and its featurerich 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.

### Delivering exceptional images

#### 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.





#### Exwave?RO technology with sophisticated Progressive Scan CCD designed for challenging security environments

These new Megapixe! cameras use ExwavePRO technology, combining a progressive scan CCD with a complimentary colour fliter 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



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 monitorina movina obiects at dusk.



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

When the light funnel function is activated, the

#### Intelligent Motion Detection provides constant viailance

minimum files sizes.

Solid PTZ and cropping enhance

With electronic Pan Tilt Zoom (PTZ)

immediately focus on any activity that

interests them within the field of vision.

Advanced cropping capability enables

them to auickly isolate areas of interest

or suspicious targets and capture all the

relevant detail for future reference with

capability, your operators can

your surveillance flexibility



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

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.





- Progressive Scan CCD
- Megapixel High Resolution
- JPEG Picture Quality Settings
- Variable Gamma Settings
- Easy Viewing Angle Adjustment
- Quick Focus Adjustment
- Ball-Joint Lens Mount Technology
- Ruggedised option
- Dual-encoding Capability
- Bi-directional Audio
- DEPA Intelligent Video

- Solid PTZ/Cropping Functions
- Privacy Zone Masking



Ruggedised Mini-dome day-night camera



Mini-dome indoor camera



### Technical specifications

### 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

SNC-DM160	
General	
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 (IEEE-802.3af)/AC24V/DC12 V 15 W max.
Power consumption Operating temperature	-30 to 50°C (-22 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
Camera	2010 00 0 (410 140 1)
Image device	1/3-type Progressive Scan CCD
mage device	with ExwavePRO Technology
Number of total pixels	Approx 1,320,000
Number of effective pixels	
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	3.6x optical zoom (2x digital zoom)
Horizontal viewing angle	100.8° to 27°
Focal length	f=2.8 to 10.0 mm
F number	F1.3 (wide), F3.0 (tele)
Minimum object distance	300 mm
Image	
Image size (H x V)	JPEG 1280 x 960, 960 x 720, 768 x
	576, 640 x 480, 384 x 288, 320 x 240
	MPEG4 640 x 480, 384 x 288,
Manier en france a sale	320 x 240
Maximum frame rate	30 fps (640 x 480), 15 fps (1280 x 960, 768 x 576)
	(1280 X 900, 708 X 376)
Audio	G.711/G.726 (40, 32, 24, 16 Kb/s)
Audio compression	G./11/G./20 (40, 32, 24, 16 Kb/s)
Network	TOD (ID LITTE A DE LOVA) (TO
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP.
	SMTP, DHCP, SNMP, DNS, NTF,
Ni seek or of oliopie	RTP/RTCP, UDP
Number of clients Authentification	10 IEEE802.1X
	IEEE0UZ.I X
Interfaces	
Ethernet	10Base-7/100Base-TX (FU-45)
Analogue video output	BNC x1, 1.0 Vp-p, 75 Ω, RCA x 1
I/O port External microphone	Sensor in x 1, Alarm out x 2 Mini-jack x1 (Mic in: monaural, 2.2
exiemumicrophone	Mini-jack XI (Mic In: mondural, 2.2 KΩ DC 2.5 V plua-in power.

more tixan 50 dB

or Higher Privacy Masking Tool, Video Player, Custom Homeogae Instr Installation manual, Bracket, Template, Torx wrench, M4 scre

Wire rope, M4 shoulder screw, Audio cable, I.

SONY

Colour: 0.8 lx (50IRE, F1.3, AGC 30dE

B/W: 0.15 lx (50IRE, F1.3, AGC 30dB)

Intel® Pentium® IV 3 GHz or high Intel Core2 Duo, 2 GHz or higher

#### SNC-DM110

General	
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 (IEEE-802.3af)/AC24V/DC12 V
Power consumption	8 W max.
Operating temperature	0 to 50°C (32 to 122°F)
Storage temperature	-20 to 60°C (-4 to 140°F)
Camera	
Image device	1/3-type Progressive Scan CCD
inage device	with ExwavePRO Technology
Number of total pixels	Approx 1,320,000
Number of effective pixels Electronic shutter	1 to 1/10,000 s
Gain control On/Off	(0 dB to +36 dB)
Exposure control	Auto, Back-Light-Compensation
Milete belones made	(BLC), Gamma settings ATW, ATW Pro
White balance mode	
Lens type	Vari-focal lens
Zoom ratio	3.4 x optical zoom (2x digitai 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
Image	
Image size (H x V)	JPEG 1280 x 960, 960 x 720, 768 x 576,
mogo sizo (ii x v)	640 x 480, 384 x 288, 320 x 240 MPEG
	640 x 430, 384 x 288, 320 x 240
Maximum frame rate	30 fps (640 x 480), 15 fps
maximum and the tole	(1280 x 960, 768 x 576)
	(1200 x 900, 736 x 576)
Audio	
Audio compression	G.711/G.726 (40, 32, 24, 16 Kb/s)
Network	
Protocols	TCP/IP, HTTP, ARP, ICMP, FTP,
	SMTP, DHCP, SNMP, DNS, NTP,
	RTP/RTCP, UDP
Number of clients	RTP/RTCP, UDP 10
Number of clients Authentification	
Authentification	
Authentification Interfaces	IO IEEE802.1X
Authentification Interfaces Eithernet	10 IEEE802.1X 10Base-1/100Rase-TX (R.I-45)
Authentification Interfaces Eithernet Analogue video output	10 IEEE802.1X 10Base-1/1008ase-1X (kJ-45) BNC x 1, 1.0 Vp-p. 75 Ω, RCA x 1
Authentification  Interfaces  Ethernet  Anaiogue video output I/O pori	10 IEEE802.1X 10Base-1/1008ase-1X (κJ-45) BNC x 1 1.0 Vp-p. 75 Ω RCA x 1 Sensor in x 1, Alarm out x 2
Authentification Interfaces Eithernet Analogue video output	10 IEEE802.1X  10Base-f/1008ase-1X (fcJ-45) BNC x 1 1.0 Vp-p. 75 Q. RCA x 1 Sensor In x 1, Alarm oul x 2 Minkjack x1 (Mile in: monaural, 22 KG
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Authentification Interfaces Ethernet Anaicaque video output I/O pori External microphone Input/Line input	10 IEEE802.1X 108ase-1/100/fasse-1X (R, L45) BNC x 1 1,0 Vpsp. 75 Q, RCA x 1 Sensor in x 1, Alarn out x 2 Min-jack x 1 (Mic in: monaural, 2.2 KI DC 2.5 V phygin power, The in: monaural)
Authentification Imputaces Ethernet Analogue video output I/O pori External microphone	10 IEEE802.1X 10Base-f/1003ase-TX (KJ-45) BNC x 1, 1.0 Vp-p. 75 Ω, RCA x 1 Sensor in x 1, Alarm oui x 2 Mini-jack x 1, (Mid-in: monaural, 22 KJ DC 2.5 V plug-in power,
Authentification Interfaces Ethernet Anaicaque video output I/O pori External microphone Input/Line input	10 IEEE802.1X 108ase-1/100/fasse-1X (R, L45) BNC x 1 1,0 Vpsp. 75 Q, RCA x 1 Sensor in x 1, Alarn out x 2 Min-jack x 1 (Mic in: monaural, 2.2 KI DC 2.5 V phygin power, The in: monaural)
Authentification [InN-rigoes Ethernet Analogue video output I/O pori Exten:al microphone Input/Line input Audio line output	10 IEEE02.1X  108ase-1/,1008ase-1X (K,145) BNC x 1 10 Vp.,75 Q, RCA x 1 Sensor in x 1, Alarm out x 2 Mini-jack x 1 (Alarm out x 2 DC 25 V phugh: power, Line in: monaural) Mini-jack (monaural), max output
Authentification Interaces Ethernet Anaicque video output I/O port Externat microphone Input/Line input Audio line output Anaicque video output Anaicque video output Anaicque video output	10 IEEE02XIX IOSaae-Ty/IOSaae-Tx (IL-L45) BNC x1 10 Vpp. 75 Q, RCA x 1 Sensor In x 1, Alarm out x 2 DC 25 Vplug-tp power. Limit in: manuari) Min-joac x1 (IoSaa) Min-joac (monaura), max output lovel: 1 Vms
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SNC-CM120	
General	
Mass Dimensions (W x H x D)	Less than 700g 82.5 x 63 x 187.5 (W x H x D mm)
Power requirements	including Lens PoE (IEEE-802.3af), AC24V, DC12V
Power consumption	8 W max.
Operating temperature	0C to +50C
Storage temperature	-20C to +60C
Camera	
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	
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=2.8 - 6.0mm
F-number	F1.3 (Wide end), F1.9 (Tele end)
Other functions	Pre/post-clarm recording
\mage	111 17
Image size (H x V)	JPEG 1280 x 960, 960 x 720, 768 x 576,
	640 x 480, 384 x 288, 320 x 240 MPEG4
	640 x 480, 384 x 288, 320 x 240
Compression format	JPEG, MPEG4
Maximum frame rate	30 fps (640 x 480), 15 fps
	(1280 x 960, 768 x 576)
World .	
Audio compression	G.711 (64kbps), G.726
	(40, 32, 24, 16kbps)
Interface	
Ethernet	10BASE-T/100BASE-TX (RJ-45)
Ancilogue video output	Composite video (1Vp-p)
i/O port	Sensor input x 1, Alarm output x 2
External microphone input	Mini-jack (Monaural), 2.2k $\Omega$ , 2.5VDC
	plug-in power
Audio line output	Mini-jack (Monaural),
	Max output level: 1 Vrms
Analogue Video Output	
Signal system	NTSC / PAL
Horizontal resolution	600 lines
S/N ratio	more than 50dB
	(AGC OFF, Weight ON)
Mininum illumination	1.2 lx (Colour),
	0.15 lx (B/W) at F1.3 (Tentative)
System Requirements	

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Features, design and specifications are subject to change without notice.

All non-metric weights and measures are approximate.

Pentium4 3GHz. Intel Core 2 Duo

2GHz or higher

acy Masking Tool, Video Player, Custom Homepage Installe asy Setup Guide). Installation manual, Wire rope

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SNC-DM160

SNC-DM110

SNC-CM120



Megapixel from Sony – exceptional cameras for security professionals



SONY

