

SNC-VM600L

Minidome 720p/60 fps Camera
Powered by IPELA ENGINE EX™ -
V Series



Overview

The SNC-VM600 minidome network camera delivers a new range of features and level of performance for an HD surveillance camera, with a maximum resolution of 1280 x 1024 pixels and improved sensitivity, thanks to a new Exmor CMOS sensor.

The SNC-VM600 features the IPELA ENGINE EX signal processing system, providing advanced features such as high frame rate, and improved image processing with View-DR, XDNR and DEPA Advanced. The high frame rate mode – 60 fps and 50 fps – delivers smoother, more natural movement in the video. View-DR at 130 dB captures objects clearly, even under very harsh lighting conditions, such as strong backlight or high contrast conditions. XDNR (eXcellent Dynamic Noise Reduction) delivers clear, low-noise, images in low light conditions. DEPA Advanced Intelligent Video and Audio Analytics triggers alarms according to user-defined rules. In-camera analytics are enhanced by additional features such as face detection, left object and removed object detection.

The camera SNC-VM600 offers a high sensitivity, with a minimum illumination of 0.05 lx in Colour mode and 0.04 lx in B/W mode. It can be powered by PoE (IEEE 802.3af-compliant), by AC 24 V +/- 20% or by DC 12 V +/- 10%, for easy installation.

Features

Excellent 720p/60 fps HD picture quality

Gain the huge surveillance benefits of excellent picture quality with 720p/60 fps HD, with up to 1280 x 1024 maximum resolution.

High quality and low noise images with Exmor CMOS sensor

Derived from Sony's broadcast range, the high resolution Exmor CMOS sensor improves image acquisition with its low noise characteristics.

Unique features from IPELA ENGINE EX signal processing system

IPELA ENGINE EX delivers high frame rate of up to 60 fps*, View-DR, XDNR (eXcellent Dynamic Noise Reduction) and DEPA Advanced Intelligent Video and Audio Analytics.

*Note: high frame-rate mode and ViewDR cannot be used at the same time.

DEPA delivers intelligent, customisable image capture and alarm triggering

The Sony DEPA platform offers intelligent video analytics, delivered through a combination of the intelligence built into the camera and the rules and filters that determine which images should be recorded and when an alarm should be triggered.

Operates at low minimum illumination

The SNC-VM600 operates at a minimum illumination of 0.05 lx in Colour mode (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) and 0.04 lx in B/W mode at 50 IRE and 30 fps.

Multiple video and audio codecs

The SNC-VM600 supports H.264 (High/Main/Baseline Profile) /JPEG video codecs and AAC (16 kHz/48 kHz)/G.726/G.711 audio codecs.

True Day/Night function for optimised images in all light conditions

Day/Night function automatically switches the camera between Day (colour) and Night (B/W) modes, depending on the light level. In Night mode, the IR-cut filter is removed so that the camera becomes sensitive to near-IR light and can reproduce images not visible to the naked eye.

ONVIF compliance for compatibility and confidence

The camera conforms to ONVIF (Open Network Video Interface Forum) Profile S, the widely-accepted protocol for information exchange between network video devices, giving you confidence in its breadth and ease of compatibility.

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) 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
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

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
Edge Storage	No
Voice Alert	Yes
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
	English, Japanese, Chinese (simplified), Chinese (traditional),

Menu Language	French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai
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Smartphone viewer	Yes
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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)
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Compression Format	H.264 (High/Main/Baseline Profile), JPEG
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Maximum Frame Rate	H.264: 60 fps (1280 x 1024) JPEG: 60 fps (1280 x 1024)
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Bitrate Control Mode	CBR/VBR (selectable)
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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

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

Audio

Compression Format G.711/G.726/AAC (16 kHz, 48 kHz)

System Requirements

Operating System Windows XP (32 bit) Professional Edition
Windows Vista (32 bit) Ultimate, Business Edition
Windows 7 (32/64 bit) Ultimate, Professional Edition
Windows 8 Pro (32/64 bit)

	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 Firefox Ver. 19.02 (plug-in free viewer only) Safari Ver. 5.1 (plug-in free viewer only) 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 *SSM (Source Specific Multicast) is supported.
Number of IP Address/Mac	1

ADDRESS

QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S
Authentication	IEEE802.1X

Interface

Analog Video Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative 600 TV lines (analog video) *1
Analog Monitor Output for Setup	Phono jack x1
Microphone Input	Mini jack (monaural)
Line Input	Mini jack (monaural)
Line Output	Mini jack (monaural) Maximum output level: 1 Vrms
Network Port	10BASE-T/100BASE-TX (RJ-45)
Alarm Input (Sensor Input)	x2, make contact, break contact x2, AC 24V/DC 24 V, 1 A

Alarm Output	(mechanical relay outputs electrically isolated from the camera)
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General

Power Requirements	IEEE 802.3af compliant (PoE system), DC 12 V \pm 10%, AC 24 V \pm 20%
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Power Consumption	6.0 W max.
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Operating Temperature	-10°C to +50°C 14°F to 122°F
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Cold Start Temperature	0°C to +50°C 32°F to 122°F
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Storage Temperature	-20 °C to + 60 °C -4 °F to + 140 °F
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Operating Humidity	20 % to 80 %
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Storage Humidity	20 % to 95 %
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Dimensions *2	ϕ 148 x 108 mm ϕ 5 7/8 inches x 4 3/8 inches
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Mass	Approx. 760 g Approx. 1 lb 11 oz
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External Material	Top cover: ABS + PC Dome cover: PC
External Color	Top cover: Munsell 4.4BG 8.4/0.2
Fire Retardant	UL2044
Safety Regulations	JATE Technical standard (LAN) UL2044, IEC60950-1 (CB) VCCI (Class A), FCC (Class A), IC (Class A) Emission: EN55022 (Class A) + 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) Audio cable (1) I/O cable (1) BNC cable (1) Power input cable (1) Screw M3 (1) Bracket (1) Wire rope (1)

Safety regulations (1)

Optional Accessories	YT-ICB600 (In-ceiling Bracket) YT-LD600S (Smoke Dome Cover)
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Notes

*1	Monitor display ratio 4:3
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*2	The values for dimensions are approximate.
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Related products



UNI-MDPDH120

Pendant mount for indoor E Series and V Series minidome cameras



UNI-BBB1

Wall/pole mount adapter box for Sony SNC-CH outdoor series video security cameras



UNI-UMB1

Indoor wall mounting bracket for minidome and PTZ cameras

Gallery

