

## SNC-VM630

Minidome 1080p/60 fps  
Camera Powered by IPELA  
ENGINE EX™ - V Series



### Overview

The SNC-VM630 minidome network camera delivers a new range of features and level of performance for a Full HD surveillance camera, with a maximum resolution of 1920 x 1080 and improved sensitivity thanks to a new Exmor CMOS sensor.

The SNC-VM630 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 90 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-VM630 offers a high sensitivity, with a minimum illumination of 0.1 lx in Colour mode and 0.07 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 1080p/60 fps full HD picture quality**

Gain the huge surveillance benefits of excellent picture quality with 1080p/60 fps Full HD, with up to 1920 x 1080 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 capability 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-VM630 operates at a minimum illumination of 0.1 lx in Colour mode (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) and 0.07 lx in B/W mode at 50 IRE and 30 fps.

## Multiple video and audio codecs

The SNC-VM630 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), 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	1/2.9-type progressive scan Exmor CMOS sensor
Number of Effective Pixels	Approx. 2.14 Megapixels
Signal System	NTSC/PAL (switchable)
Sync System	Internal synchronization
Minimum	Color: 0.1 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)

Illumination (50 IRE)	B/W: 0.07 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Minimum Illumination (30 IRE)	Color: 0.06 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) B/W: 0.05 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Dynamic Range	Equivalent to 90 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	Yes

## Setup

Horizontal Viewing Angle	105.3° to 35.6°
Vertical Viewing Angle	56.9° to 20.1°
Viewing Tilt Angle	127.6°
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	Yes
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
Menu Language	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai
Smartphone viewer	Yes

## Video

Resolution	1920 x 1080, 1280 x 720, 1024 x 576, 720 x 576, 720 x 480, 704 x 576, 640 x 480, 640 x 360, 352 x 288, 320 x 184 (H.264, JPEG)
Compression Format	H.264(High/Main/Baseline Profile), JPEG
Maximum Frame Rate	H.264: 60 fps (1920 x 1080) JPEG: 60 fps (1280 x 720)
Bitrate Control Mode	CBR/VBR (selectable)
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

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)
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## 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
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SNC toolbox mobile	Yes
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## 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.
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Number of IP Address/Mac ADDRESS	1
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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 Video Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative 700 TV lines (analog video) *1
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Analog Monitor Output for Setup	Phono jack x1
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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
Alarm Output	x2, AC 24V/DC 24 V, 1 A (mechanical relay outputs electrically isolated from the camera)
Card Slots	SD x1
Confirmed SD Card Type	4/8/16/32 GB SDHC (no support for SDXC)

## General

Power Requirements	IEEE 802.3af compliant (PoE system), DC 12 V $\pm$ 10%, AC 24 V $\pm$ 20%
Power Consumption	6.0 W max.
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	-20 °C to + 60 °C

Temperature	-4 °F to + 140 °F
Operating Humidity	20 % to 80 %
Storage Humidity	20 % to 95 %
Dimensions *2	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
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	CD-ROM (supplied programs) (1) Installation Manual (1) Template (1) Audio cable (1) I/O cable (1)

## Accessories

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)

## Notes

\*1

Monitor display ratio 4:3

\*2

The values for dimensions are approximate.

## Related products



### FWL-65W855C

65" BRAVIA  
 Professional Full HD  
 Colour LED Display



### FWL-75W855C

75" BRAVIA  
 Professional Full HD  
 Colour LED Display



### FWL-55W805C

55" BRAVIA  
 Professional Full HD  
 Colour LED Display



### FWL-40W705C

40" BRAVIA  
 Professional Full HD  
 Colour LED Display



### FWL-48W705C

48" BRAVIA  
 Professional Full HD  
 Colour LED Display



### 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



## Gallery

