

# Mini Dome 1080p/60fps Full HD Camera Powered by IPELA ENGINE EX™ Technology

- Maximum resolution of 1920 x 1080 pixels with the Exmor™ CMOS sensor
- High Frame rate of 60 fps and three simultaneous streams
- Extremely Wide Dynamic Range to 90dB achieved with View-DR technology
- New video analytics functions including face detection and object removal/left behind
- H.264 (High/Main/Baseline Profile)/JPEG video codecs and AAC (16 kHz/48 kHz)/G.726/G.711 audio codecs
- Minimum illumination of 0.1 lx in Color and 0.07 lx in B/W (50 IRE @ 1/30 sec)



#### **KEY FEATURES**

- IPELA ENGINE EX signal processing system developed based on Sony's unique signal processing and video analytics technologies to provide unique features such as a high frame rate, View-DR, XDNR™, and DEPA™ Advanced technologies
- High frame rate of 60 fps to provide smoother and less blurry moving pictures
- View-DR Sony's innovative wide dynamic range technology - to capture objects clearly and adaptively even under very harsh, severe backlight or highlight conditions





OFF



Actual Images

- Visibility Enhancer (VE) to optimize the brightness and color reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene within the given dynamic range
- DEPA Advanced Intelligent Video Analytics to trigger an alarm based on user-defined rules
- SD memory card slot for an on-board recording capability<sup>1</sup>

 XDNR (eXcellent Dynamic Noise Reduction) technology for clear images with virtaully no motion blur under low illumination



ON Actual Images

- True D/N (Day/Night) function to switch to Day or Night mode depending on the light level
- Built-in HTML viewer compatible with most Smartphones
- Easy Focus allows installer/user to focus the camera remotely using a PC or locally
- Easy Zoom allows installer/user to change field of view locally or remotely using a PC
- $^{\circ}$  Powered by either PoE (IEEE 802.3af-compliant), AC 24 V  $\pm 20\%$ , or DC 12 V  $\pm 10\%$  for easy installation
- ONVIF<sup>TM</sup> (Open Network Video Interface Forum)
   Profile S conformance software that ensures
   greater interoperability and more flexibility in
   building multiple-vendor systems

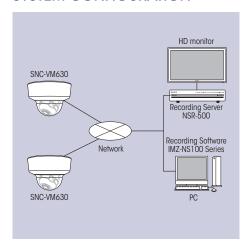


- VBR (variable bitrate) or CBR (constant bitrate) encoding format selectable to correspond with various network conditions
- Easy initial network settings with supplied SNC Easy IP Setup Guide application
- Image Stabilizer to help minimize the effect of camera shake or vibration for less blurry images
- Data recorded on an SD memory card (sold separately) may be lost or damaged by data access during power-off, mechanical shock, memory card detachment, or other operations. Data loss or damage can also occur when a memory card reaches end of life, which varies according to operational conditions. No guarantee is given against damage (including passive damage). The on-board recording function, the intelligent motion detection function and the tamper alarm function cannot be used simultaneously.

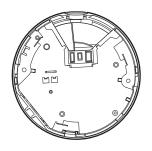
## **SPECIFICATIONS**

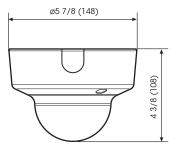
	SNC-VM630
Camera	
Image Sensor	1/2.9-type progressive scan Exmor CMOS sensor
Image Sensor (Number of Effective Pixels)	Approx. 2.14 Megapixels
Signal System Minimum Illumination (50 IRE)	NTSC color system  Color: 0.1 bx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)  B/W: 0.07 bx (F1.2, View-DR 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 S/N Ratio	Equivalent to 90 dB with View-DR technology  More than 50 dB (Gain 0 dB)
Gain	Auto
Shutter Speed	1/1 s to 1/10000 s
Sync System	Internal synchronization
Exposure Control	Exposure compensation, AGC, Shutter speed, Iris
White Balance Lens	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapor lamp, Metal halide lamp, White LED, One push WB, Manual Built-in vari-focal lens
Powered Zoom	Yes (Easy Zoom)
Zoom Ratio	Optical zoom 3x, Digital zoom 2x
Powered Focus	Yes (Easy Focus)
Horizontal Viewing Angle	105.2 °to 35.4°
Vertical Viewing Angle	57° to 20°
Focal Length	f = 3.0 mm to 9.0 mm
F-Number Minimum Object Distance	F1.2 (Wide), F2.1 (Tele) 300 mm
Horizontal Resolution	700 TV lines (analog video) *2
Preset Position	8
Tour	5
Camera Features	
Day/Night	Yes
Wide-D	Yes (View-DR)
Image Enhancement	Visibility Enhancer (VE)  XDNR technology
Noise Reduction Image Stabilizer	Yes *4
Image	
Codec Image Size (H x V)	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)
Video Compression Format Codec Streaming Capability	H.264 (High/Main/Baseline Profile), JPEG Triple Stranging *1 CPBARD (colorable)
Maximum Frame Rate	Triple Streaming *1, CBR/VBR (selectable) H.264. 60 fps (1920 x 1080) JPEG: 60 fps (1280 x 720)
Audio Audio Compression Format	G.711/G.726/AAC (16 kHz, 48 kHz)
Scene Analytics	
Intelligent Motion Detection	Yes
Face Detection	Yes *3
Rule-based Filter Network	DEPA Advanced
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SMTP, IPv6 *3, HTTPS, SNMP (MIB-2)
ONVIF Conformance	Yes (Profile S) *3
Number of Clients	20
Authentication	IEEE 802.1X
Interface	DNO.v1 1.01/a n 75.0 cmbalance ama nonative
Analog Video Output Analog Monitor Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative Phono jack x1
Line Input	Mini jack (monaural)
Line Output	Mini jack (monaural), Maximum output level: 1 Vrms
Network Port	10BASE-T/100BASE-TX (RJ-45)
Sensor Input	x 2, make contact, break contact
Alarm Output	x 2, 24 V AC/DC, 1 A (mechanical relay outputs electrically isolated from the camera)
Microphone Input	Mini jack (monaural) SD Card x 1
Card Slots System Requirements	DO OUIU A 1
Operating System	Windows® XP (32 bit) Professional Edition Windows Visto® (32 bit) Ultimate, Business Edition
Processor	Windows 7 (32/64 bit) Ultimate, Professional Edition Intel Core i7 2.8 GHz or higher
Memory	2 GB or more
Web Browser	Microsoft Internet Explorer <sup>ac</sup> Ver. 7.0, Ver. 8.0, Ver. 9.0 Firefox <sup>ac</sup> Ver. 3.5 (Plug-in free viewer only) Sofori <sup>ac</sup> Ver. 4.0 (Plug-in free viewer only)
Canaval	Google Chrome™ Ver. 4.0 (Plug-in free viewer only)
General Power Requirements	PoE system (IEEE 802.3af compliant), DC 12 V ± 10%, AC 24 V ± 20%
Power Consumption	
	6.0 W max
Operating Temperature	6.0 W max. 14°F to 122°F (-10°C to +50°C)
Starting Temperature	14°F to 122°F (-10°C to +50°C) 32°F to 122°F (0°C to 50°C)
Starting Temperature Storage Temperature	14°F to 12°F (-10°C to +50°C) 32°F to 12°F (0°C to 50°C) -4°F to +140°F (-20°C to +60°C)
Starting Temperature Storage Temperature Operating Humidity	14°F to 122°F (-10°C to +50°C) 32°F to 122°F (0°C to 50°C) 49°F to +140°F (-20°C to +60°C) 20% to 80%
Starting Temperature Storage Temperature Operating Humidity Storage Humidity	14°F to 12°F (-10°C to +50°C) 32°F to 12°F (0°C to 50°C) -4°F to +140°F (-20°C to +60°C) 20% to 80% 20% to 95%
Starting Temperature Storage Temperature Operating Humidity Storage Humidity Dimensions (W x H x D)	14°F to 12°F (-10°C to +50°C) 32°F to 12°F (0°C to 50°C) 4°F to +140°F (-20°C to +60°C) 20% to 80% 20% to 95% ø5 7/8 inches x 4 3/8 inches (ø148 x 108 mm)
Starting Temperature Storage Temperature Operating Humidity Storage Humidity Dimensions (W x H x D) Weight	14°F to 122°F (-10°C to +50°C) 32°F to 122°F (0°C to 50°C) 49°F to +140°F (-20°C to +60°C) 20% to 80% 20% to 95% 85 7/8 inches x 4 3/8 inches (a148 x 108 mm) Approx. 1 b 11 oz (760 g)
Starting Temperature Storage Temperature Operating Humidity Storage Humidity Dimensions (W x H x D)	14°F to 12°F (-10°C to +50°C) 32°F to 12°F (*0 to 50°C) 44°F to +140°F (-20°C to +50°C) 20% to 80% 20% to 95% 65 7/8 inches x 4 3/8 inches (ø148 x 108 mm) Approx. 1 lb 11 oz (760 g) JATE Teichnical standard (LAN) U2044 (E06950-1 (CB)
Starting Temperature Storage Temperature Operating Humidity Storage Humidity Dimensions (W x H x D) Weight	1.4°F to 122°F (-10°C to 450°C) 32°F to 122°F (0°C to 50°C) 44°F to +140°F (-20°C to +60°C) 20% to 95% 20% to 95% 20% to 95% 20% to 95% 20% to 10°C to 50°C) 34°F to +140°F (-20°C to +60°C) 34°F to +140°F (-20°C to +60°C) 34°F to +140°F (-20°C to +60°C) 35°F (-20°C to +60°C) 36°F (-20°C
Starting Temperature Storage Temperature Operating Humidity Storage Humidity Dimensions (W x H x D) Weight	14°F to 122°F (-10°C to 450°C) 32°F to 122°F (0°C to 50°C) 4°F to +140°F (-20°C to +60°C) 20% to 95% 95 7/8 inches x 4 3/8 inches (ø148 x 108 mm) Approx. I lb 11 oz (760 g) JATE Technical standard (LMN) UL2044, IE60950-1 (CB) VCCI (Class A), FCC (Class A), ENSO1 30-4
Starting Temperature Storage Temperature Operating Humidity Storage Humidity Dimensions (W x H x D) Weight	1.4°F to 122°F (-10°C to 450°C) 32°F to 122°F (0°C to 50°C) 44°F to +140°F (-20°C to +60°C) 20% to 95% 95 7/8 inches x 4 3/8 inches (8148 x 108 mm) Approx. 1 to 11 oz (760 g) JAET Eechnical standard (LNN) UL2044, IEC60950-1 (CB) VCCI (Closs A), ICC (Closs A), IC
Starting Temperature Storage Temperature Operating Humidity Storage Humidity Dimensions (W x H x D) Weight	1.4°F to 122°F (-10°C to 450°C) 32°F to 122°F (0°C to 50°C) -4°F to +140°F (-20°C to +60°C) 20% to 95% 95 7/8 inches x 4 3/8 inches (ø148 x 108 mm) Approx. 1 ib 11 oz (760 g) JAET iechnicul standard (LAN) UL2044, IEC60950-1 (C8) VCCI (class A), FCC (Class A), IC (Class A) Emission: EN55022 (Class A) + EN50130-4 Immunity. EN55022 (Class A) + EN55024

## SYSTEM CONFIGURATION



#### **DIMENSIONS**





Unit: inches (mm)

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<sup>\*1</sup> Triple streaming (any combination with JPEG/H.264, including multiple streams of the same format)

\*2 Monitor display ratio 4:3 \*3 Version 1.4 or later \*4 Default setting: OFF