

Vandal-resistant Mini Dome 1080/60p Camera Powered by IPELA ENGINE EX™

- Maximum resolution of 1920 x 1080 pixels with the Exmor[™] CMOS sensor
- High frame rate of 60 frames per second (fps)
- Dynamic range equivalent to 90 dB achieved with View-DR technology
- Scene analytics enhanced by unique features such as face detection
- 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 mode and 0.07 lx in B/W mode at 50 IRE and 30 fps
- IK10-rated vandal-resistant feature



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
- 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

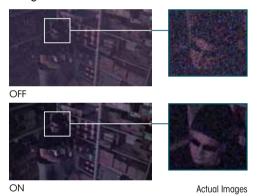


Actual Images

- 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 and Audio Analytics to trigger an alarm based on user-defined rules



 XDNR (eXcellent Dynamic Noise Reduction) technology for clear images without motion blur under low illumination



- IK10-rated vandal-resistant feature to protect the camera from destructive behaviors
- SD card slot for an on-board recording capability*
- True D/N (Day/Night) function to switch to Day or Night mode depending on the light level
- Smartphone Viewer for accessing the camera from a smartphone
- Easy Focus/Easy Zoom for easy installation
- $^{\circ}$ Powered by either PoE (IEEE 802.3af-compliant), AC 24 V $\pm 20\%$, or DC 12 V $\pm 10\%$ for easy installation
- ONVIF (Open Network Video Interface Forum)
 Profile S conformance

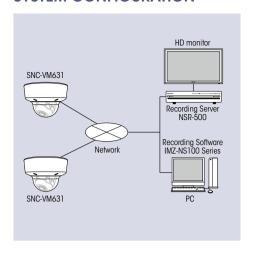


- VBR (variable bitrate) or CBR (constant bitrate) encoding format selectable to correspond with various network conditions
- Easy initial network settings by supplied SNC Easy IP Setup Guide application
- Image Stabilizer to minimize the effect of camera shake or vibration for less blurry images
- * Data recorded on an SD memory card 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).

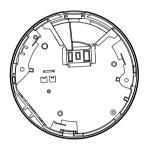
SPECIFICATIONS

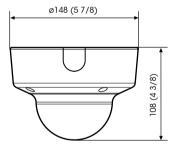
	SNC-VM631
Camera	
Image Sensor	1/2.9-type progressive scan Exmor CMOS sensor
Image Sensor (Number of Effective Pixels)	
Signal System	NTSC color system / PAL color system (switchable)
Minimum Illumination (50 IRE)	Color: 0.1 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
	B/W: 0.07 lx (F1.2, 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	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	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual
Lens	Built-in varifocal lens
Powered Zoom	Yes (Easy Zoom)
Zoom Ratio	Optical zoom 3x, Digital zoom 2x *3
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	F1.2 (Wide), F2.1 (Tele)
Minimum Object Distance	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) Visibility Enhancer (VE)
Image Enhancement	
Noise Reduction	XDNR Yes *3 *6
Image Stabilizer	Yes 1940
Image	2000 2000 2000 700 200 574 700 574 700 400 704 574 400 400 400 600 600 600 600
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
15.	(H.264, JPEG)
Video Compression Format	H.264 (High/Main/Baseline Profile), JPEG
Codec Streaming Capability	Triple Streaming *1, CBR/VBR (selectable) *4
Maximum Frame Rate	H.264: 60 fps (1920 x 1080)
	JPEG: 60 fps (1280 x 720)
Audio	273307040404040404
Audio Compression Format	G.711/G.726/AAC (16 kHz, 48 kHz)
Scene Analytics	
Intelligent Motion Detection	Yes
Face Detection	Yes *5
Rule-based Filter	DEPA Advanced *3
Network	
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SMTP, IPv6 *5, HTTPS *4, SNMP (MIB-2) *4
ONVIF Conformance	Yes (Profile S) *5
Number of Clients	20
Authenticatoin	IEEE 802.1X*4
Interface	
Analog Video Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative
Analog Monitor Output	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)
Card Slots	SD Card x 1
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
Processor	Intel Corei7 2.8 GHz or higher
Memory	2 GB or more
Web Browser	Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0
TOD DIGHOO!	Firefox Ver. 3.5 (Plug-in free viewer only)
	Safari Ver. 4.0 (Plua-in free viewer only)
	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	-10 °C to +50 °C (14°F to 122°F)
Starting Temperature	0 °C to 50 °C (32°F to 122°F)
Storage Temperature	-20 °C to +60 °C (-4°F to +140°F)
Operating Humidity	20% to 80%
Storage Humidity	20% to 95%
Vandal Resistant	Yes
Dimensions (W x H x D)	
	Ø148 x 108 mm (Ø5 7/8 inches x 4 3/8 inches)
Mass Cafety Populations	Approx. 800 g (1 lb 12 oz)
Safety Regulations	JATE Technical standard (LAN)
	UL2044, IEC60950-1 (CB)
	VCCI (Class A), FCC (Class A), IC (Class A)
	Emission: EN55022 (Class A) + EN5013Ó-4
	Emission: EN55022 (Class Á) + EN5013Ó-4 Immunity: EN55022 (Class Á) + EN55024
Supplied Accessories	Emission: EN55022 (Class A) + EN5013Ó-4

SYSTEM CONFIGURATION



DIMENSIONS





Unit: mm (inches)

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^{*1} Triple streaming (any combination with JPEG/H.264, including multiple streams of the same format)

*2 Monitor display ratio 4:3 *3 Version 1.2 or later *4 Version 1.3 or later *5 Version 1.4 or later *6 Default setting: OFF