SONY

SNC-XM631

Network Mini Dome Full HD Camera – X Series

Compact Indoor Mini Dome1080p/30 fps Camera
Powered by IPELA ENGINE™ EX Technology

■ Maximum resolution of 1920 x 1080 pixels with the Exmor® CMOS sensor
■ Wide Dynamic Range equivalent to 90 dB achieved with View-DR® technology
■ Minimum illumination of 0.3 lx in Color and B/W mode at 50 IRE
■ Vandal-resistant with IK10 impact resistance rating
■ Three-axis-hinge structure for easy viewing angle adjustment
■ Flexible field-of-view, with three optional fixed lenses as an alternative to the supplied 113 degrees lens
■ e-Varifocal to electronically zoom in and adjust the field of view for easy and flexible installation

IPELA

KEY FEATURES

• IPELA ENGINE EX signal processing system developed based on Sony's unique signal processing and intelligent video analytics technologies to provide unique features such as View-DR, XDNR®, and DEPA™ Advanced technologies

• View-DR – 90 dB wide dynamic range, using Sony's innovative wide dynamic range technology – to help capture objects clearly and adaptively even under very harsh, severe backlight or highlight conditions

OFF   ON

Actual images

• Visibility Enhancer (VE) to help 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

• IK10-rated vandal-resistant feature to protect the camera from destructive behavior

• Three-axis-hinge structure to adjust the lens unit in pan, tilt, and rotate directions for easy field of view adjustment during installation

• Picture mode settings to allow for easier camera parameter changes based on scene requirements

• Supports VBR (variable bit-rate) for best image quality; VBR with cap to reduce storage requirement or CBR (constant bit-rate) for balanced network load and image quality

• Edge Storage function to record video and audio data with an SD/SDHC card attached to the camera

• Image Stabilizer to help minimize the effect of camera shake or vibration to achieve less blurry images

• Electronic D/N (Day/Night) function to switch from color (day) to B/W (Night) mode

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

OFF

ON   Actual images

• DEPA Advanced Intelligent Video Analytics to trigger an alarm based on user-defined rules of motion or object detection at the same time: ie virtual border and object removed detection

• Smartphone viewer to display an image of the camera on the smartphone screen and control the camera's pan, tilt, and zoom functions by simple touch-panel manipulation

• ONVIF™ (Open Network Video Interface Forum) Profile S conformance firmware that ensures greater interoperability and more flexibility in building multi-vendor systems

• Easy initial network settings by supplied SNC Easy IP Setup Guide application

• Powered by IEEE 802.3af (PoE system) via an RJ-45 connector for easy installation

• Three types of optional fixed lens with a horizontal viewing angle of 83 degrees, 51 degrees, and 25 degrees (camera comes supplied with 113 degree lens) for flexible field-of-view camera settings

• e-Varifocal to electronically zoom in on an image and adjust the field of view for easy and flexible installation,

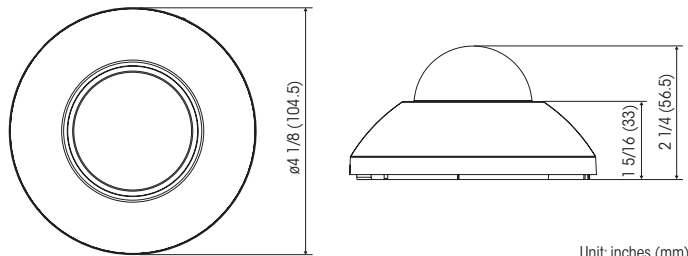**IPELA** ENGINE EX   **View-DR**   **DEPA** Advanced   **Onvif S**

SPECIFICATIONS

	SNC-XM631
Camera	
Image Sensor	1/2.9-type progressive scan Exmor CMOS sensor
Number of Effective Pixels	Approx. 2.14 Megapixels
Minimum Illumination (50 IRE)	Color: 0.3 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
	B/W: 0.3 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Minimum Illumination (30 IRE)	Color: 0.18 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
	B/W: 0.18 lx (F2.0, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Dynamic Range	Wide dynamic range equivalent to 90dB with View-DR technology
Gain	Auto
Shutter Speed	1 s to 1/10,000 s
Exposure Control	Exposure compensation, AGC, Shutter speed
White Balance	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual
Lens	Fixed lens
Zoom Ratio	Digital zoom 4x
Horizontal Viewing Angle	113°
Vertical Viewing Angle	61°
Viewing Tilt Angle	121°
Focal Length	f = 2.8 mm
F-Number	F2.0
Minimum Object Distance	500 mm
Pan/Tilt/Rotation Angle (manual)	Pan: 350°
	Tilt: 0° to +60°
	Rotation: ±175°
Camera Features	
Day/Night	Electronic D/N
e-Flip	Yes
Wide-D	View-DR
Tone Correction	Visibility Enhancer (VE)
Noise Reduction	XDNR
Image Stabilizer	Yes
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
Compatibility with Cloud Service	Yes
Vandal Resistant	IK10
Superimpose Number	3 independent positions for characters (Codec, Date & Time, Event, Text (max. 64 characters)), 1 independent position for logo marks
Superimpose Language	English
Menu Language	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai, Turkish, Polish
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: 30 fps (1920 x 1080)
	JPEG: 30 fps (1920 x 1080)
Bitrate Compression Mode	CBR/VBR/VBR with cap
Range of Bit Rate Setting	64 Kbps to 32 Mbps
Solid PTZ	Yes
e-Varifocal	Yes
Adaptive Rate Control	H.264
Bandwidth Control	JPEG
Multi streaming Capability	Triple streaming
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

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 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, 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)
Network	
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, SMTP, IPv6, HTTPS, FTP (client only), SNMP (v1, v2c, v3), SSL
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S
Authentication	IEEE802.1X
Interface	
Microphone Input	No
Network Port	10BASE-T/100BASE-TX (RJ-45)
Alarm Input (Sensor Input)	x1, make contact, break contact
Alarm Output	x1, +/- 50 V, 0.4 A (solid state relay outputs electrically isolated from the camera)
Card Slots	SD Card x1
Confirmed SD Card Type	Max. 64 GB
General	
Power Requirements	IEEE 802.3af compliant (PoE system)
Power Consumption	4.0 W max.
Operating Temperature	14°F to 122°F (-10°C to +50°C)
Cold Start Temperature	32°F (0°C)
Storage Temperature	-22°F to +140°F (-30°C to +60°C)
Operating Humidity	20% to 80%
Storage Humidity	20% to 80%
Dimensions (W x H x D)	ø4 1/8 inches x 2 1/4 inches (ø104.5 mm x 56.5 mm)
Weight	Approx. 7.1 oz (Approx. 200 g)
External Material	Top cover/Dome cover: PC (Polycarbonate)
	Lower case: AL Die-cast
Supplied Accessories	CD-ROM (supplied programs) (1)
	Installation Manual (1)
	Template (1)
	Safety regulations (1)
	Warranty booklet (1)
	I/O cable (1)
Optional Accessories	SNCA-L038MF M12 Mount Lens (f=3.8 mm, horizontal viewing angle: 83 degrees)
	SNCA-L060MF M12 Mount Lens (f=6.0 mm, horizontal viewing angle: 51 degrees)
	SNCA-L120MF M12 Mount Lens (f=12 mm, horizontal viewing angle: 25 degrees)
	UNI-MDPX Pendant Mount Cap

*SSM (Source Specific Multicast) is supported.

DIMENSIONS

ø4 1/8 (104.5)

1 5/16 (33)

2 1/4 (56.5)

Unit: inches (mm)