# SNC-XM637

Network Mini Dome Full HD Camera - X Series

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

- Maximum resolution of 1920 x 1080 pixels with the Exmor<sup>®</sup> CMOS sensor
- Extremely Wide Dynamic Range to 90dB achieved with View-DR<sup>®</sup> technology
- Minimum illumination of 0.3 lx in Color mode and 0.3 lx in B/W mode at 50 IRE
- IK10-rated vandal-resistant and IP66-rated water-resistant/ dust-tight features
- Three-hinge structure for easy and flexible camera angle adjustment
- Horizontal viewing angel of 113°
- Meets safety regulations for indoor train applications, including EN45545 and EN50155

### **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<sup>®</sup>, and DEPA™ Advanced technologies



 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



ON

- 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
- IK10-rated vandal-resistant feature to protect the camera from destructive behaviors
- · IP66-rated water-resistant and dust-tight feature for outdoor surveillance and indoor locations where water ingress may pose an issue
- DEPA Advanced Intelligent Video Analytics to trigger an alarm based on user-defined rules



Actual Images

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





Actual Images

- Three-hinge structure to turn the lens unit in panning, tilting, and rotating directions for easy and flexible camera angle adjustment
- Picture mode selectable from a range of camera scenes in the setting menu to help optimize picture quality in various applications
- VBR (variable bitrate) or CBR (constant bitrate) compression mode selectable to correspond with various network conditions
- 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 to Day or Night mode depending on the light level
- · 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<sup>™</sup> (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
- Built-in microphone
- Powered by IEEE 802.3af (PoE system) via an M12 connector for easy installation



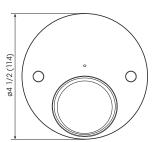
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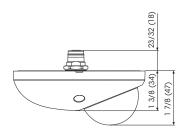
### **SPECIFICATIONS**

	SNC-XM637
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
	B/W: 0.3 lx
Minimum Illumination (30 IRE)	Color: 0.18 lx
	B/W: 0.18 lx
Dynamic Range	Equivalent to 90 dB with View-DR technology
Gain	Auto
Shutter Speed	1/1 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 4x
Horizontal Viewing Angle	113°
Vertical Viewing Angle	61°
Viewing Tilt Angle	151°
Focal Length	f = 2.8 mm
F-Number	F2.2
Pan/Tilt/Rotation Angle (Manual)	Pan: ±30°
	Tilt: 0° to +90°
	Rotation: ±175°
Camera Features	Flasheris DAI
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
Vandal Resistance	IK10
Ingress Protection	IP66
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
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 (selectable)
Range of Bitrate Setting	64 Kbps to 32 Mbps
Solid PTZ	Yes
Adaptive Rate Control	H.264
Bandwidth Control	JEPG
Multi Streaming Capability	Triple streaming
Number of Clients	20
Intelligent Video Analytics	DEDA Advanced
Analytics Architecture	DEPA Advanced
Intelligent Motion Detection	Yes
Face Detection	Yes
Tamper Alarm	Yes Paraina Intrusion Latt Object Dataction Removed Object Dataction
Scene Analytics	Passing, Intrusion, Left Object Detection, Removed Object Detection
Audio	C 711/C 704/AAC (14 kHz 48 kHz)
Compression Format	G.711/G.726/AAC (16 kHz, 48 kHz)
System Requirements Operating System	Windows YD® (32 hit) Professional Edition
operating system	Windows XP® (32 bit) Professional Edition Windows Vista® (32 bit) Ultimate, Business Edition
	Windows® 7 (32/64 bit) Ultimate, Professional Edition
Broossor	Windows® 8 Pro (32/64 bit)
Processor	Intel Corei7 2.8 GHz or higher
Memory Web Browner	2 GB or more
Web Browser	Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver 10.0
	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-XM637
Network	
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, RTSP over HTTP, SMTP, IPv6, HTTPS, SNMP (v1, v2c, v3), SSL
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S
Authentication	IEEE 802.1X
Interface	
Microphone Input	Built-in microphone
Network Port	10BASE-T/100BASE-TX (M12)
Card Slots	SD Card x1
Confirmed SD Card Type	SDHC (no support for SDXC)
General	
Power Requirements	IEEE 802.3af compliant (PoE system)
Power Consumption	10.0 W max. (heater ON) 3.8 W max. (heater OFF) (equivalent to PoE Class 1)
Operating Temperature	-13°F to +122°F (-25°C to +50°C)
Cold Start Temperature	Higher than -20°C (-4°F)
Storage Temperature	-22°F to +140°F (-30°C to +60°C)
Operating Humidity	20% to 80%
Storage Humidity	20% to 80%
Built-in Heater	Yes
Dimensions (W x H x D)	Approx. ø4 1/2 inches x 1 7/8 inches (ø114 mm x 47 mm)
Weight	Approx. 9.7 oz (275 g)
External Material	Top cover/Dome cover: PC (polycarbonate)
External Color	Top cover: Munsell 4.4BG 8.4/0.2
Fire Retardant	UL2044
Safety Regulations	IU2044, UI50, IEC60950-1, IEC60529, IEC62262, EN45545 (fire protection an railway vehicles), EN50155 (electronic equipment used on rolling stock), EN55022, EN61000-3-2, EN61000-3-3, EN55024, EN50130-4, FCC/IC (Class B), AU/NZ EMC, KN22KN24 (Class B), EN50121, VACCI (Class B), EA6 (GOSTR)
Supplied Accessories	CD-ROM (supplied programs) (1)
	Installation Manual (1)
	Template (1)
	Safety regulations (1)
	Warranty Booklet (1)
	Lens Adjusting Tool (1)
	Wrench (1)

#### DIMENSIONS





Unit: inches (mm)

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