SNC-XM631
Network Mini Dome Full HD Camera – X Series

Compact Indoor Mini Dome 1080p/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

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
- 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
- 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,
**SPECIFICATIONS**

**Camera**
- **SNC-XM631**

**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 PQDB with View-DR technology

**Shutter Speed**
- 1 s to 1/10,000 s

**Exposure Control**
- Exposure compensation, AGC, Shutter speed

**White Balance**
- AWB, AWB-PRO, Fluorescent lamp, Mercury lamp, Sodium vapor lamp, Metal halide lamp, White LED, One push WB, Manual

**Lens**
- Fixed lens

**Zoom Ratio**
- Digital zoom 4x

**Viewing Tilt Angle**
- 121°

**Pan/Tilt/Rotation Angle (manual)**
- Pan: ±175°
- Tilt: 0° to +60°
- Rotation: ±175°

**Minimum Object Distance**
- 500 mm

**Focal Length**
- f = 2.8 mm

**F-Number**
- F2.0

**Viewing Tilt Angle**
- 61°

**Vertical Viewing Angle**
- 113°

**Resolution**
- 1920 x 1080, 1280 x 720, 1024 x 576, 720 x 576, 720 x 480

**Video**
- Compression Format: H.264 (High/Main/Baseline Profiles), JPEG

**Maximum Frame Rate**
- JPEG: 30 fps (1920 x 1080)

**E-Varifocal**
- Yes

**Solid PTZ**
- Yes

**Zoom Ratio**
- Digital zoom 4x

**View-DR**
- Electronic D/N

**Day/Night**
- Electronic D/N

**Auto**
- Trace, Integrate Conv 2.0 GHz or higher

**Multi streaming Capability**
- Triple streaming

**Bandwidth Control**
- JPEG

**Adaptive Rate Control**
- H.264

**Number of Clients**
- 20

**Picture Mode**
- Yes

**Edge Storage**
- Yes

**Superimpose Number**
- 3 independent positions for characters (Codec, Date & Time, Event, Text (max. 64 characters), 1 independent position for logo marks)

**Compatible with Cloud Service**
- Yes

**Vandal Resistant**
- IK10

**Supplied Accessories**
- CD-ROM (supplied programs) (1)

**External Data Sheet**
- PC (Polycarbonate)

**Weight**
- Approx. 7.1 oz (Approx. 200 g)

**Dimensions**
- ø4 1/8 inches x 2 1/4 inches (ø104.5 mm x 56.5 mm)

**Power Consumption**
- 4.0 W max.

**Power Requirements**
- IEEE 802.3af compliant (PoE system)

**Memory**
- 2 GB or more

**Network Port**
- 10BASE-T/100BASE-TX (RJ-45)

**Alarm Output (Sensor Input)**
- x1, make contact, break contact

**Alarm Input**
- x1, ± 50 V 0.4 A (solid state relay outputs electrically isolated from the camera)

**Card Slots**
- SD Card x1

**Confidential SD Card Type**
- Max. 64 GB

**Interface**
- IEEE802.1X

**ONVIF Conformance Profile**
- S

**Multicast Streaming Support**
- Yes

**QoS**
- DSCP

**Multicast Streaming Support**
- Yes

**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)

**Google Chrome®**
- Ver. 25.0 (Plug-in free viewer only)

**System Requirements**
- **Operating System**
  - Windows XP® (32 bit) Professional 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 i5 2.5 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)
  - Google Chrome® Ver. 25.0 (Plug-in free viewer only)

- **Protocol**
  - IPv4, TCP, UDP, ARP, ICMP (IPv6), HTTP, DHCP, DNS, FTP, RTP/RTCP, RTSP over TCP/RTSP over HTTP, SMTP, IPv6, HTTPS, FTP (client only), SNMP (v1, v2c, v3), SSL

- **Video**
  - SVCD

- **Supplied Accessories**
  - CD-ROM (supplied programs) (1)
  - Installation Manual (1)
  - Warranty booklet (1)
  - I/O cable (1)

- **Optional Accessories**
  - SNC-035N6P M12 Mount Lens (f=3.8 mm, horizontal viewing angle: 83 degrees)
  - SNC-060SNP M12 Mount Lens (f=6.0 mm, horizontal viewing angle: 51 degrees)
  - SNC-122SNP M12 Mount Lens (f=12 mm, horizontal viewing angle: 25 degrees)
  - UNI-MDPX Pendant Mount Cap

**Weights and Measurements**
- Approx. 7.1 oz (Approx. 200 g)

**Weights and Measurements**
- Approx. 2.14 Megapixels

**Specifications**
- Depa Advanced

**Dimensions**
- 2.14 (105.5)

**Unit: inches (mm)**