SONY

SNC-VM772R

4K IR Ruggedised Network Minidome Video Security Camera with Large-sized Exmor R™ CMOS Sensor

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Overview

Exceptional detail and sensitivity for round-the-clock surveillance applications, indoors or outsideThis is currently preliminary product information, with more details to follow.

With four times the resolution of Full HD, Sony's first 4K network security camera brings industry-leading clarity and sensitivity to critical video monitoring and surveillance applications.

Thanks to the camera's large, highly sensitive 1.0-type Exmor R™ CMOS image sensor, powerful processing engine and high-quality zoom lens, the SNC-VM772R captures detail-packed 4K video footage - even in near darkness.

The increased resolution of 4K opens up exciting new monitoring possibilities. Traditional video surveillance requires a PTZ camera or several box cameras to survey a wide area. The SNC-VM772R can stream an overall low-resolution situational view, plus up to four croppped 4K native resolution views of specific areas of interest in the scene, with Multi Tracking to chase moving subjects. The 20 megapixel imager also enables high-quality still image recording at beyond 4K resolution to allow close examination of a scene for evidence purposes.

Picture settings are automatically selected to suit a wide range of operating environments. They can also be manually adjusted with custom profiles for even more flexible operation.

The camera's outstanding image performance is enhanced with features including Optical Image Stabilisation for steadier pictures and Defog mode that cuts through haze. In addition, the excellent low-light capabilities are further enhanced with in-built IR illuminators for true night-time coverage.

Quick, simple installation and set-up is aided by a smartphone or tablet PC app for remote field of view adjustment.

The discreetly styled minidome camera features a ruggedised vandal- and weather-resistant design that's ideal for

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tough round-the-clock video security and surveillance assignments, indoors or outside.

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Features

- **See and analyse more with 4K detail**

  With a resolution of 20 megapixels (5,472 x 3,648), the camera's large 1.0-type back-illuminated Exmor R™ CMOS sensor captures 4K (3,840 x 2,160) video with exceptional detail.

- **Excellent low-light sensitivity**

  The large 1.0-type image sensor captures more incident light than conventional security camera sensors, allowing the SNC-VM772R to function effectively at minimum illumination levels as low as 0.1 lx in colour mode.

- **High quality 2.9x optical zoom lens for detailed close-ups**

  The motorised Sony lens can zoom in to areas of interest for extremely high resolution close-ups.

- **Clear pictures in any conditions with Intelligent Scene Capture**

  Picture settings are automatically selected to suit a wide range of operating environments and lighting conditions, including Backlight, Spotlight, Night Scene and Low Light.

- **Store and instantly recall Custom Profiles**

  Picture parameters to suit varying conditions can be manually adjusted and stored with a Custom Profile function. These profiles can be recalled by timer, external triggers or detected lighting conditions with Picture Profile Scheduler.

- **Versatile multi-streaming capability with Intelligent Cropping**

  Select 4K video streaming at 10 fps for conventional monitoring; one Full HD overview stream plus four VGA cropped close-ups; or one Full HD overview plus two Full HD cropped close-ups.

- **20 megapixel Evidence Shot for high-resolution still image capture**

  High-quality recording of 20 megapixel (5,472 x 3,648) still images can be triggered by the camera's motion detection capability, or by external inputs from third-party equipment such as motion detectors and door sensors.

- **Maximum quality where it matters most**

  Intelligent Coding gives selected of-interest areas maximum detail, while reducing bit-rates to save network bandwidth in other areas of the image.

- **Optimum performance under varying network conditions**

  Select VBR (variable bit-rate) with Cap or CBR (constant bit-rate) compression modes for optimised recording quality and balanced network load depending on IP network conditions.

- **Smart analytics**

  DEPA Advanced Intelligent Video Analytics trigger alarm events based on user-defined rules, including intelligent motion detection, crossing line filter and object detection capabilities.

- **Steadier, more stable images**

  On-board Optical Image Stabilisation keeps video images steady and blur-free, even if the camera's subjected to buffeting from wind or traffic vibration on a pole, fence or road bridge.

- **Always ready for action, even in the dark**

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Built-in IR (infrared) illuminators give a clear view in complete darkness (0 lx) of objects at a distance of up to 30 m (tentative) from the camera.

- **Accurately exposed night-time viewing, near or far**

  Adaptive IR assures high-quality B/W night-time images without overexposure, even with objects that are close to the camera or highly reflective.

- **Better pictures, day or night**

  True D/N (Day/Night) function automatically switches the camera to Day or Night mode, depending on ambient light levels.

- **Automatic recording to memory card**

  Edge Storage records video and audio directly to an optional SD card for later examination. Recording can be triggered manually or automatically in response to alarm events, by the camera's analytics features, or if network connection is temporarily lost.

- **Clearer views in fog, smog and haze**

  Defog Image Processing feature uses powerful image processing to enhance pictures in fog, smog and haze conditions for clearer video images

- **Highlight Compensation**

  Detects and masks intensely localised light sources, such as car headlights and flashlights in dark conditions.

- **Speedy, simple setup with SNC toolbox Mobile app**

  Save time and integration costs with wireless adjustment of the camera's field view from a smartphone or tablet PC, using an optional USB Wireless LAN Module.

- **Built to handle tough conditions**

  The camera's vandal-resistant design meets IK10 standards (protection against mechanical impact). IP66-rated water-resistant and dust-tight, it's ideal for all-weather outdoor surveillance, as well as damp or humid indoor environments.

- **ONVIF (Open Network Video Interface Forum) compliance**

  ONVIF Profile S-conformance ensures greater interoperability and flexibility in multi-vendor systems.

- **Versatile powering options**

  Choose PoE/PoE+ system, AC 24 V or DC 12 V power for easier, more flexible installation.

Technical Specifications

Camera

● Image Sensor	1.0-type progressive scan Exmor R CMOS sensor	
● Number of Effective Pixels	Approx. 20 Megapixels	
● Minimum Illumination	Color: 0.1 lx	
● Dynamic Range	Equivalent to 90 dB with View-DR technology	
● Lens	Built-in zoom lens	
● Zoom Ratio	Optical zoom 2.9x	
● Horizontal Viewing Angle	70.7° to 27.5°	
● Vertical Viewing Angle	39.9° to 15.7°	
● F-Number	F1.8 (Wide) to F2.8 (Tele)	
● IR Illuminator	Yes	
● IR Working Distance	30 m (98 feet)	

Camera Features

● Day/Night	True D/N
● Tone Correction	Visibility Enhancer (VE)
● Defog Image Processing	Yes
● Hilight Compensation	Yes
● Noise Reduction	Yes
● Image Stabilizer	Optical
● Edge Storage	Yes
● Vandal Resistant	IK10
● Ingress Protection	IP66
● Smartphone viewer	Yes

Video

● Resolution	5472 x 3648, 3840 x 2160, 2880 x 2160, 1920 x 1080, 1440 x 1080, 1440 x 960, 1280 x 720, 960 x 720, 720 x 480, 640 x 480, 640 x 360, 320 x 240, 320 x 180
● Compression Format	H.264 (High/Main Profile), JPEG
● Maximum Frame Rate	H.264: 30 fps (3840 x 2160), JPEG: 2.5 fps (5472 x 3648)
● Bitrate Compression Mode	CBR/VBR with Cap (selectable)
● Multi streaming Capability	5 streaming

Intelligent Video/Audio Analytics

● Analytics Architecture	DEPA Advanced

● Intelligent Motion Detection	Yes	
● Face Detection	Yes	
● Tamper Alarm	Yes	
● Scene Analytics	Entering, Passing, Loitering, Exiting, Counting, Theft, Desertion	

Audio

● Compression Format	G.711/G.726/AAC-LC (16 kHz, 48 kHz)

Network

● Protocols	IPv4, TCP, UDP, ICMP HTTP, RTP/RTCP, RTSP over TCP IPv6, HTTPS, FTP (client only), TLS (v1.0)
● ONVIF Conformance	Profile S
● Digital Video Output	HDMI x1
● Microphone Input	Mini jack
● Line Input	Mini jack
● Network Port	10BASE-T/100BASE-TX (RJ-45)
● Alarm Input (Sensor Input)	x2
● Alarm Output	x2
● Wireless LAN Terminal	x1
● Card Slots	SD Card x1
● Confirmed SD Card Type	SDHC/SDXC (max. 128 GB)

General

● Power Requirements	12 V DC ± 10% 24 V AC ± 20%, 50 Hz/60 Hz IEEE802.3at compliant (PoE/PoE+ system)
● Operating Temperature	-40°C to +50°C (-40°F to +122°F)
● Dimensions (W x H x D)	φ 190 mm x 147 mm (φ 7 1/2 inches x 5 7/8 inches)
● Mass	Approx. 2 kg (4 lb 7 oz)
● *	Specifications are tentative and subject to change without notice.

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