

SNC-VB640

Box-type Full HD 1080p/60fps IP Network Camera (V-Series)



Overview

Don't miss a moment with this versatile, power-packed Full HD network camera.

This versatile, easy to install fixed network camera brings Full HD imaging quality to a wide range of indoor security and surveillance applications, from offices, banks and retail spaces to schools and colleges.

The SNC-VB640 captures crisp, low-noise Full HD images, even in challenging low-light conditions like dimly-lit car parks. The sensitive 1/2.8" type Exmor R CMOS image sensor is teamed with XDNR processing, improving low-light performance and achieving the minimum illumination of 0.006 lux(30 IRE) in colour mode.

Video can be captured at a high maximum frame rate of 60fps – allowing smoother, more accurate viewing of moving objects such as people or vehicles.

View-DR expands dynamic range for significantly improved imaging in high-contrast and strongly backlit scenes, like sun-drenched offices or car park entrances. Image stabilisation keeps video images crisp and clear, even when the camera is subject to vibration on a mounting pole or bracket.

The addition of SD card edge storage allows video/audio data to be recorded directly by the camera when triggered by an alarm event. This provides valuable redundancy in the event of temporary network failure: recording to the network server resumes automatically when normal network connection is restored.

Installation of the SNC-VB640 is simplified by the same familiar user interface, usability and form factor as previous-generation Sony V Series cameras.

Features

- **See every scene clearly with Full HD image quality**

View fine detail in a wide range of everyday video security and surveillance environments, from retail spaces to banks and schools. The sensitive 1/2.8" type Exmor R CMOS image sensor is teamed with XDNR processing, improving low-light performance and achieving the minimum illumination of 0.006 lux(30 IRE) in colour mode.

- **Capture smooth, fluid movement at 60fps**

Video images can be captured at a high frame rate of 60fps, allowing precise analysis when stepping through recorded footage frame by frame. It's ideal for applications like city surveillance where it's essential to see what's happening with split-second accuracy.

- **Steadier, more stable video footage**

The in-built image stabiliser minimises the effects of camera shake – for example when the camera's pole mounted or subject to mechanical vibration. With clearer, more stable video images it's easier to see what's happening in any scene.

- **Don't miss that crucial moment with Intelligent Motion Detection and Face Detection**

In-built motion detection can trigger a range of actions, from storage and transfer of images to sounding of external alarms. False alarms caused by noise, weather and environment noise are minimised by a smart processing algorithm. Human face detection is also supported, allowing rapid indexing of recordings to find events where a face is visible in the scene.

- **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.

- **Optimum picture quality in any situation**

A choice of selectable picture modes optimises camera settings for best picture quality in a wide range of applications and lighting environments.

- **Recording quality to suit your network**

Select CBR (constant bitrate), VBR (variable bitrate) or VBR-with-cap compression modes for optimised recording quality depending on IP network conditions.

- **Edge recording on SD card for reliable operation**

SD card edge storage allows video/audio data to be recorded directly by the camera when triggered by an alarm event. This provides valuable redundancy in the event of temporary network failure: recording to the network server resumes automatically when normal network connection is restored.

- **Detect in confidence with Edge-based Analytics**

Powerful DEPA Advanced video analytics enhances Intelligent Motion Detection with rule-based alarm triggers, providing alerts with object filters like 'passing' and 'intrusion' to further reduce false alarms.

- **Reduce cabling costs with Power Over Ethernet (PoE)**

Power over Ethernet (PoE) allows the camera be powered by the same Ethernet cable that's used for data transfer, reducing installation complexity and costs.

- **View and control with your smartphone**

Remotely view live camera images with your Android or iOS smartphone or tablet. You don't even need to download a special app.

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

Support for ONVIF simplifies interoperability with other network video devices. The ONVIF (Open Network Video Interface Forum) defines a common protocol for the exchange of information between network video devices, including automatic device discovery and video streaming.

Technical Specifications

Camera	
● Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor
● Number of Effective Pixels	Approx. 2.13 Megapixels
● Minimum Illumination (50 IRE)	Color: 0.01 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
● Minimum Illumination (50 IRE)	B/W: 0.007 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
● Minimum Illumination (30 IRE)	Color: 0.006 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
● Minimum Illumination (30 IRE)	B/W: 0.005 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
● Lens	CS-mount varifocal lens
● Zoom Ratio	Optical zoom 2.9x
● Horizontal Viewing Angle	114.2 ° to 40.0 °
● Vertical Viewing Angle	60.6 ° to 22.5 °
● Focal Length	f = 2.8 mm to 8.0 mm
● F-Number	F1.2 (Wide) to F1.95 (Tele)
● IR Illuminator	No
● White-light LED Illuminator	No

Camera Features	
● Day/Night	True D/N
● Image rotate	90 °, 270 °
● Mirroring	Yes
● Wide-D	View-DR
● Tone Correction	Visibility Enhancer
● Noise Reduction	XDNR
● Image Stabilizer	Electronic
● Picture Mode	Yes
● Edge Storage	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: 60 fps (1920 x 1080) JPEG: 60 fps (1280 x 720)
● Bitrate Control Mode	CBR/VBR (selectable)
● Multi streaming Capability	Yes (3)

● Number of Clients	20
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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

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

System Requirements	
● Operating System	Windows 7 (32/64 bit) Ultimate, Professional Edition Windows 8.1 Pro (32/64 bit) Windows 10 Pro (32/64 bit)
● ONVIF Conformance	Profile S
● Analog Video Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative
● Microphone Input	Mini jack (monaural)
● Line Input	Mini jack (monaural)
● Line Output	Mini jack (monaural) Maximum output level: 1 Vrms
● Network Port	10BASE-T/100BASE-TX (RJ-45)
● Alarm Input (Sensor Input)	x2, make contact, break contact
● Alarm Output	x2, AC 24 V/DC 24 V, 1 A (mechanical relay outputs electrically isolated from the camera)
● Card Slots	SD x 1

General	
● Power Requirements	IEEE 802.3af compliant (PoE system), DC 12 V ± 10%, AC 24 V ± 20%
● Operating Temperature	-10°C to +50°C 14°F to 122°F
● Dimensions (W x H x D) *1	72 mm x 63 mm x 145 mm (without lens) 2 7/8 inches x 2 1/2 inches x 5 3/4 inches (without lens)
● Mass	Approx. 565 g (with lens) Approx. 1 lb 4 oz (with lens)

Notes	
● *1	The values for dimensions are approximate.
● *2	Monitor display ratio 4:3

Accessories

Housings



UNI-ORBC2
Fixed Outdoor Vandal Resistant Environmental Housing



UNI-ORBC6
Environmental IP66-rated housing supporting .af PoE cameras and Sony sunshield

Mounting Hardware



UNI-MDPEM600
Pendant Mount Adaptor

Other Accessories



SCA-M30
High quality, ceiling microphone for IP security cameras.



SCA-S30
High quality active outdoor loudspeaker for use with Sony's IP cameras

Power Supplies



SNCA-HPOE1
Single port, high-power Gigabit PoE midspan



SNCA-POE1
Compact Power over Ethernet power supply for fixed and middome cameras



SNCA-POE12
Compact 12-port Power over Ethernet (PoE) midspanpower supply for fixed and minidome cameras



SNCA-POE6
Compact 6-port Power over Ethernet (PoE) midspanpower supply for fixed and minidome cameras