SONY

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.

Specifications

Camera	
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor
Number of Effective Pixels	Approx. 2.13 Megapixels
Signal System	NTSC/PAL (switchable)
Sync System	Internal synchronization
Minimum Illumination (50 IRE)	Color: 0.01 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) B/W: 0.007 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)

Camera

Minimum Illumination (30 IRE)	Color: 0.006 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) 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
S/N Ratio (Gain 0 dB)	More than 50 dB
Gain	Auto
Shutter Speed	1/1 s to 1/10,000 s
Exposure Control	Exposure compensation, Shutter speed, Iris
White Balance	ATW, ATW-PRO, Fluorescent lamp, Mercury lamp, Sodium vapour lamp, Metal halide lamp, White LED, One push WB, Manual
Lens	CS-mount varifocal lens
Zoom Ratio	Optical zoom 2.9x Digital zoom 4x Total zoom 11.6x
Easy Focus for Setup	Yes
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)
Minimum Object Distance	300 mm
IR Illuminator	No
White-light LED Illuminator	No

Camera Features

Day/Night	True D/N
Day/Night linked with Easy Focus	Yes
Image Rotate	90°, 270°
Mirroring	Yes
Wide-D	View-DR
Tone Correction	Visibility Enhancer
Noise Reduction	XDNR
Image Stabilizer	Electronic
Picture Mode	Yes

Camera Features	
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
Voice Alert	Yes
Superimpose Number	3 independent positions for characters (Codec, Date & Time, Event, Text (Max. 64 characters)), 1 independent position for a logo mark
Superimpose Language	English
Menu Language	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish, German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai

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)
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	Yes (3)
Number of Clients	20

Intelligent Video/Audio Analytics	
Analytics Architecture	DEPA Advanced
Intelligent Motion Detection	Yes
Face Detection	Yes

Intelligent Video/Audio Analytics

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)
Processor	Intel Corei7 2.8 GHz or higher
Memory	2 GB or more
Web Browser	Microsoft Internet Explorer Ver. 11.0 Firefox Ver. 50.1 (plug-in free viewer only) Google Chrome Ver. 55.0 (plug-in free viewer only)
SNC toolbox	Yes
SNC toolbox mobile	Yes

Network

Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, SMTP over HTTP, IPv6, HTTPS, FTP (client), SNMP (v1, v2c, v3), SSL *SSM (Source Specific Multicast) is supported.
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S, Profile T
Authentication	IEEE802.1X

Interface

Analog Video Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative 700 TV lines (analog video)*2
Microphone Input	Mini jack (monaural)
Line Input	Mini jack (monaural)

Interface

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
Confirmed SD Card Type	Max. 256GB *3

General

Power Requirements	IEEE 802.3af compliant (PoE system), DC 12 V ± 10%, AC 24 V ± 20%
Power Consumption	6.0 W max.
Operating Temperature	-10°C to +50°C 14°F to 122°F
Cold Start Temperature	0°C to +50°C 32°F to 122°F
Storage Temperature	-20°C to + 60°C -4°F to + 140°F
Operating Humidity	20 % to 80 %
Storage Humidity	20 % to 80 %(no condensation)
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) 72 mm x 63 mm x 199 mm (with lens) 2 7/8 x 2 1/2 x 7 7/8 inches (with lens)
Mass	Approx. 565 g (with lens) Approx. 1 lb 3.9oz (with lens)
External Material	Top cover: SECC-CF Bottom cover: SECC-CF Front panel: ADC12 Rear panel: PC + ABS
External Color	Top cover: Munsell 3.6GY 8.4/0.3 Bottom cover: Munsell 3.6GY 8.4/0.3 Front panel: Munsell 3.5PB 2.2/0.4 Rear panel: Munsell 4.4BG 8.4/0.2

General	
Safety Regulations	JATE Technical standard (LAN) UL2044, IEC60950-1 (CB) VCCI (Class A), FCC (Class A), IC (Class A) Emission: EN55032 (Class A) Immunity: EN55024＋ EN50130-4 Emission: AS/NZS CISPR32 (Class A) KC EMC-TR
Supplied Accessories	Wire rope (1) Screw M4 (1) DC 12/AC 24V connector (1) Safety regulations (1) Operating Instructions - Download site Information (1)

Notes	
*1	The values for dimensions are approximate.
*2	Monitor display ratio 4:3
*3	The maximum number of event recording in the SD card is 4000. It may not use the full capacity of the SD card, depending on the limitation set for the event recording.

Information on EU Data Act: Click here to check if your Sony product and/or related service is subject to the EU Data Act.

Related products



UNI-OPBC6

Pessurised temperature controlled vandal-resistant security camera housing



UNI-OTBC2

Temperature-controlled vandal resistant outdoor security camera housing

Gallery





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