

SNC-VB642D

Network Fixed Full HD Camera – V Series

SONY

Outdoor IP66 Dual-light Bullet 1080p/60 fps with Exmor R Sensor

- High Sensitivity – equipped with the Exmor R CMOS sensor, achieves low-noise, superior full quality color images
- Wide dynamic range – 90 dB with View DR technology
- Dual Light system - Combination of white light and IR illuminators for effective surveillance and deterrence/safety
- Advanced IR with IR range of up to 328 feet
- Electronic image stabilization
- Intelligent motion detection and DEPA Advanced analytics including face detection
- SC card slot with Edge Notification capability*
- Triple stream with High frame rate of 60 frames per second (fps)
- Bi-directional audio with Voice Alert capability
- Simultaneous analog video and network video streaming
- Wide operating temperature ranging from -40°C to +60°C (-40°F to +140°F)*

* See Operating Temperature specs for details



KEY FEATURES

- Exmor R CMOS sensor achieves 10x better sensitivity compared to the 630 series
- View-DR expands dynamic range for significantly improved imaging in high-contrast and strongly backlit scenes, like undrenched 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.
- Unique View DR allows both shutters to drop to same lower shutter speed for better sensitivity



View DR OFF



View DR ON

Actual Images

- DEPA Advanced Intelligent Video Analytics to trigger an alarm based on user-defined rules like passing, intrusion, object removed/left behind, face detection
- 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
- XDNR (eXcellent Dynamic Noise Reduction) technology for clear images with virtually no motion blur under low light conditions
- Built-in white-light illuminators to help provide clear color images in the dark even under 0 lx or help deter would be intruders by turning on the bright white light

- Advanced IR technology to provide high-quality IR images without overexposure, providing clear B/W images of close and distant objects



Without Advanced IR mode
(cannot identify close objects due to overexposure)



Advanced IR mode
(View-DR ON)

Actual Images

- Picture mode feature allows users to easily adjust camera settings based on scene requirements
- Supports VBR (variable bit-rate) for best image quality; VBR with cap to reduce storage requirement or CBR (constant bitrate) for balanced network load and image quality
- Unique camera arm design to easily install the camera and easily adjust the viewing angle
- Easy Zoom/Easy Focus for easy installation
- Powered by either IEEE 802.3af/IEEE 802.3at-compliant (PoE/PoE + system), AC 24 V $\pm 20\%$ or DC 12 V $\pm 10\%$ for easy installation
- ONVIF™ (Open Network Video Interface Forum) Profile
- S-conformance firmware that ensures greater interoperability and more flexibility in building multi-vendor systems
- e-Varifocal to electronically zoom in on an image and adjust the field of view for easy and flexible installation



* Sony mSD Card models: SR-32VMA, SR-64VMA, SR-G1VMA

Sony Video Security driven by Bosch

SPECIFICATIONS

SNC-VB642D	
Camera	
Image Sensor	1/2.8-type progressive scan Exmor R CMOS sensor
Number of Effective Pixels	Approx. 2.14 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 lx (IR illuminator ON)
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 lx (IR illuminator ON)
Dynamic Range	Wide Dynamic Range equivalent to 90 dB with View-DR technology
S/N Ratio (Gain 0 dB)	More than 50 dB
Gain	Auto
Shutter Speed	1/1s 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, Indoor, Outdoor
Lens	Built-in varifocal lens
Easy Zoom	Yes
Zoom ratio	Optical zoom 3x Digital zoom 4x Total zoom 12x
Easy Focus for Setup	Yes
Horizontal Viewing Angle	105.3° to 35.6°
Vertical Viewing Angle	56.9° to 20.1°
Focal Length	f = 3.0 mm to 9.0 mm
F-Number	F1.2 (Wide) to F2.1 (Tele)
Minimum Object Distance	300 mm
IR Illuminator	Yes (Wave length: 850 nm [typical], IR LED: 20 pieces)
IR Working Distance	up to 328 ft (100m) at 30IRE up to 197 ft (60m) at 50 IRE
White-light LED Illuminator	Yes (White LED: 4 pieces)
LED Working Distance	23 Feet (7m) (50 IRE)
Camera Features	
Day/Night	True D/N
Day/Night linked with Easy Focus	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 Resistant	IK8
Ingress Protection	IP66
Superimpose function	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, Turkish, Polish
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: 60 fps (1920 x 1080) JPEG: 60 fps (1280 x 720)
Bitrate Compression Mode	CBR/VBR (selectable)
Range of Bitrate Setting	64 Kbps to 32 Mbps
Solid PTZ	Yes
e-Varifocal	Yes
Adaptive Rate Control	H.264
Bandwidth Control	JPEG
Multi Streaming Capability	Triple streaming
Number of Clients	20
Intelligent Video 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	

SNC-VB642D	
Compression Format	G.711/G.726/AAC (16 kHz, 48 kHz)
System Requirements	
Operating System	Windows XP (32 bit) Professional Edition Windows Vista (32 bit) Ultimate, Business 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 i7 2.8 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) Safari Ver. 5.1 (plug-in free viewer only) Google Chrome Ver. 25.0 (plug-in free viewer only)
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), FTP (client only), SSL
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S
Authentication	IEEE802.1X
Interface	
Analog Video Output	BNC x1
Analog Monitor Output for Setup	Phono jack x1
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)	Yes (x2)
Alarm Output	Yes (x2)
Card Slots	SD Card x1
Confirmed SD Card Type	Max. 64 GB
General	
Power Requirements	DC 12 V ±10% AC 24 V ±20%, 50 Hz/60 Hz IEEE802.3at compliant (PoE/PoE+ system)
Power Consumption	Max. 21 W (AC 24 V/DC 12 V) Max. 17 W (IEEE802.3at (PoE+)) Max. 12.5 W (IEEE802.3af (PoE))
Operating Temperature	-40°C to +60°C (-40°F to +140°F) (LED OFF, PoE+, AC 24 V, DC 12 V) -40°C to +50°C (-40°F to +122°F) (LED ON, PoE+, AC 24 V, DC 12 V) -10°C to +60°C (14°F to +140°F) (LED OFF, PoE) -10°C to +50°C (14°F to 122°F) (LED ON, PoE)
Cold Start Temperature	-30°C to +60°C (-22°F to +140°F) (LED OFF, PoE+, AC 24 V, DC 12 V) -30°C to +50°C (-22°F to +122°F) (LED ON, PoE+, AC 24 V, DC 12 V) 0°C to +60°C (32°F to +140°F) (LED OFF, PoE) 0°C to +50°C (32°F to 122°F) (LED ON, PoE)
Storage Temperature	-20°C to +60°C (-4°F to +140°F)
Operating Humidity	20% to 90% (no condensation)
Storage Humidity	20% to 95% (no condensation)
Built-in Heater	Yes
Dimensions (W x H x D)*1	93 mm x 93 mm x 180.9 mm (3 3/4 inches x 3 3/4 inches x 7 1/8 inches) ø140 mm x 313.4 mm (ø5 5/8 inches x 12 3/8 inches) (including arm)
Mass	Approx. 1600 g (3 lb 8 oz)
Supplied Accessories	CD-ROM (supplied programs) (1) Template (1) Wrench (1) Waterproof Tape (1) Installation Manual (1 set) Safety Regulations (1 set)
Optional Accessory	UNI-BBB1 Wall/Pole Mount Back Box

*SSM (Source Specific Multicast) is supported.

DIMENSIONS

