Box-type 1080p/60 fps Camera with Half-inch Exmor™ CMOS Sensor Powered by IPELA ENGINE EX™

- Maximum resolution of 1920 x 1080 pixels with the half-inch Exmor CMOS sensor
- Minimum illumination of 0.04 lx in Color mode and 0.03 lx in B/W mode at 50 IRE and 30 frames per second (fps)
- High frame rate of 60 fps
- Dynamic range equivalent to 90 dB achieved with View-DR technology
- RS-485 interface for transparent control of camera peripherals
- Operating temperature up to 60°C (140°F)

SONY BELA Home of the second

The camera does not include a lens.

KEY FEATURES

- IPELA ENGINE EX signal processing system developed based on Sony's unique signal processing and video
- analytics technologies to provide unique features such as a high frame rate, View-DR, XDNR, and DEPA™ Advanced technologies



DEPA

- High frame rate of 60 fps to provide smoother and less blurry moving pictures
- View-DR Sony's innovative wide dynamic range technology
 to capture objects clearly and adaptively even under very harsh, severe backlight or highlight conditions



OFF



ON

- Visibility Enhancer (VE) to 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
- DEPA Advanced Intelligent Video Analytics to trigger an alarm based on user-defined rules
- Picture mode selectable from a range of camera scenes in the setting menu to optimize picture quality in various applications

 XDNR (eXcellent Dynamic Noise Reduction) technology for clear images with virtually no motion blur under low illumination



ON

Actual Images

- True D/N (Day/Night) function to switch to Day or Night mode depending on the light level
- VBR (variable bitrate) or CBR (constant bitrate) compression mode selectable to correspond with various network conditions
- 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
- RS-485 interface to transparently control camera peripherals such as powered zoom lenses and camera pedestals with pan and tilt functionalities; the camera converts control commands sent over the network to serial data and transfers this to devices via an RS-485 interface for easy and convenient operations
- · Easy focus function for easy installation
- Easy initial network settings by supplied SNC Easy IP Setup Guide application
- \circ Powered by either IEEE 802.3af-compliant (PoE system), AC 24 V $\pm 20\%$, or DC 12 V $\pm 10\%$ for easy installation
- Smartphone viewer to display an image of the camera on the smartphone's 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







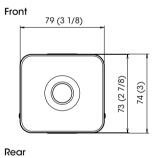
SPECIFICATIONS

	SNC-VB635
Camera	
Image Sensor	1/1.9-type progressive scan Exmor CMOS sensor
Number of Effective Pixels	Approx. 2.38 Megapixels
Signal System	NTSC/PAL (switchable)
Sync System	Internal synchronization
Minimum Illumination (50 IRE)	Color: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
	B/W: 0.03 Ix (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Minimum Illumination (30 IRE)	Color: 0.02 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
	B/W: 0.01 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, AGC, 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	C-mount varifocal lens (option)
Easy Focus for Setup	Yes
	165
Camera Features	Terre DAL
Day/Night	True D/N
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
Superimpose Number	3 independent positions for characters (Codec, Date & Time, Event, Text (max. 64 characters)), 1 independent position for logo marks
Superimpose Language	English
Menu Language	English, Japanese, Chinese (simplified), Chinese (traditional), French, Spanish,
	German, Italian, Korean, Portuguese, Russian, Arabic, Hindi, Vietnamese, Thai
Smartphone viewer	Yes
Video	
Resolution	1920 x 1080, 1280 x 720, 1024 x 576, 720 x 576, 720 x 480, 704 x 576,
Compression Format	640 x 480, 640 x 360, 352 x 288, 320 x 184 (H.264, JPEG) 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
Range of Bitrate Setting Solid PTZ	64 Kbps to 32 Mbps Yes
Range of Bitrate Setting Solid PTZ Adaptive Rate Control	64 Kbps to 32 Mbps Yes H.264
Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control	64 Kbps to 32 Mbps Yes H 224 JPEG
Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Multi Streaming Capability	64 Kbps to 32 Mbps Ves H.264 JPEG Triple streaming
Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Multi Streaming Capability	64 Kbps to 32 Mbps Yes H 224 JPEG
Range of Bitrate Setting Solid PTZ Adoptive Rate Control Bandwidth Control Mutti Streaming Capability Number of Clients Intelligent Video Analytics	64 Kbps to 32 Mbps Yes H.2c4 JPEG Triple streaming 20
Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Mutti Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture	64 Kbps to 32 Mbps Ves H.264 JPEG Triple streaming
Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection	64 Kbps to 32 Mbps Yes H.2c4 JPEG Triple streaming 20
Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection	64 Kbps to 32 Mbps Yes H 264 JPEG Triple streaming 20 DEPA Advanced
Range of Bitrate Setting Solid PTZ Adoptive Rate Control Bandwidth Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection	64 Kbps to 32 Mbps Yes H.264 JPEG Triple streaming 20 DEPA Advanced Yes
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Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Mutti Streaming Capability Number of Clients Intelligent Video Analytics Analytics Achitecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics	64 Kbps to 32 Mbps Yes H 224 JPEG Triple streaming 20 DEPA Advanced Yes Yes
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Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Mutti Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Foce Detection Tamper Alarm Scene Analytics Audio Compression Format	64 Kbps to 32 Mbps Yes H 264 JPEG Triple streaming 20 DEPA Advanced Yes Yes Yes Yes Passing, Intrusion, Left Object Detection, Removed Object Detection
Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Mutti Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Delection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements	64 Kbps to 32 Mbps Yes H 264 JPEG Triple streaming 20 DEPA Advanced Yes Yes Yes Yes Passing, Intrusion, Left Object Detection, Removed Object Detection
Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Mutti Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Delection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements	64 Kbps to 32 Mbps Yes H 264 JPEG Triple streaming 20 20 DEPA Advanced Yes Yes Yes Yes Passing, Intrusion, Left Object Detection, Removed Object Detection G.711/G.726/AAC (16 kHz, 48 kHz) Windows XP (32 bit) Professional Edition
Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Mutti Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Gamper Alarm Scene Analytics Audio Compression Format System Requirements	A Kbps to 32 Mbps Yes H 224 JPEG Triple streaming 20 DEPA Advanced Yes Yes Yes Yes Yes Yes Yes Yes Windows XP (32 bit) Professional Edition Windows Vista (32 bit) Ultimate, Business Edition Windows Vista (32 bit) Ultimate, Business Edition Windows Vista (32 bit) Ultimate, Business Edition Windows Vista (32 bit) Ultimate, Business Edition Windows Vista (32 bit) Vista (32 bit) Vista (32 bit) Vista (32 bit) Vista (32 bit) Vista (32 bit) Vista (32 bit) Vista (32 bit) Vista (32 bit) Vista (32 bit) Vista (32 bit) Vista (32 bit
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Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Multi Streaming Copability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements Operating System	64 Kbps to 32 Mbps Yes H 264 JPEG Triple streaming 20 DEPA Advanced Yes Yes Yes Yes Yes Yes Windows XP (32 bit) Professional Edition Windows XP (32 bit) Ultimate, Professional Edition Windows XP (32/64 bit)
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Range of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Video Analytics Compression Format System Requirements Operating System Processor Memory	64 Kbps to 32 Mbps Yes H 2c4 JPEG Triple streaming 20 DEPA Advanced Yes Yes Yes Yes Yes Yes Yes Windows XP (32 bit) Professional Edition Windows XP (32 bit) Ultimate, Business Edition Windows XP (32 bit) Ultimate, Professional Edition Windows AP (32 bit) Ultimate, Profese (34 bit) Windows AP (34 bit) Ultimate, Professional Ed
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Range of Bitrole Setting Solid PTZ Adoptive Rate Control Bandwidth Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Video Analytics Analytics Architecture Intelligent Video Analytics Compression Format Scene Analytics Audio Compression Format System Requirements Operating System Processor Memory Web Browser	64 Kbps to 32 Mbps Yes H 264 JPE6 Triple streaming 20 DEPA Advanced Yes Passing. Intrusion, Left Object Detection, Removed Object Detection G.711/G.726/AAC (16 kHz, 48 kHz) Windows XP (32 bit) Utilmate, Business Edition Windows XP (32/64 bit) Utilmate, Business Edition Windows XP (32/64 bit) Intel Corei7 2.8 GHz or higher 2 GB or more Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0 Firefox Ver. 19.02 (plug-in free viewer only) Sdraf Ver. 5.1 (plug-in free viewer only) Google Chrome Ver. 25.0 (plug-in free viewer only)
Ronge of Bitrate Setting Solid PTZ Adaptive Rate Control Bandwidth Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Video Analytics Acaditics Architecture Scene Analytics Audio Compression Format System Requirements Operating System Processor Memory Web Browser	
Range of Bitrole Setting Solid PTZ Adaptive Rate Control Bandwidth Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements Operating System	64 Kbps to 32 Mbps Yes H-264 JPEG Triple streaming 20 20 20 20 DEPA Advanced Yes Yes
Range of Bitrole Setting Solid PTZ Adoptive Rate Control Bandwidth Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements Operating System Processor Memory Web Browser Network Protocols QoS	64 Kbps to 32 Mbps Ves H 2c4 JPEG Triple streaming 20 DEPA Advanced Ves Possing. Intrusion. Leff Object Detection, Removed Object Detection G.711/G.726/AAC (16 kHz, 48 kHz) Windows XP (32 bit) Professional Edition Windows XP (32 bit) Professional Edition Windows XP (32 bit) Professional Edition Windows Vista (32 bit) Ultimate, Business Edition Windows Vista (32 bit) Ultimate, Business Edition Windows Vista (32 bit) Ultimate, Professional Edition Windows XP (32/64 bit) Intel Corei7 2.8 GHz or higher 2 GB or more Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0, Ver. 10.0 Firefox Ver. 19.02 (plug-in free viewer only) Safari Ver. 5.1 (plug-in free viewer only) Google Chrome Ver. 2.5.0 (plug-in free viewer only) IPv4, TCP, UDP, ARP, ICMP IGMP*, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP over TCP, SMTP over HTTP, IPv6, HTTPS, SNMP (v1, v2c, v3), SSL DSCP
Range of Bitrole Setting Solid PTZ Adaptive Rate Control Bandwidth Control Multi Streaming Capability Number of Clients Intelligent Video Analytics Analytics Architecture Intelligent Motion Detection Face Detection Tamper Alarm Scene Analytics Audio Compression Format System Requirements Operating System	64 Kbps to 32 Mbps Yes H-264 JPEG Triple streaming 20 20 20 20 DEPA Advanced Yes Yes

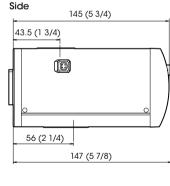
	SNC-VB635
Interface	
Analog Video Output	BNC x1
Analog Monitor Output for Setup	Phono jack x1
Line Input	Mini jack (monaural)
Line Output	Mini jack (monaural)
Network Port	10BASE-T/100BASE-TX (RJ-45)
Alarm Input (Sensor Input)	Yes (x2)
Alarm Output	Yes (x2)
Serial Interface	R\$485
Card Slots	SD Card x1
Confirmed SD Card Type	4/8/16/32 GB SDHC (no support for SDXC)
General	
Power Requirements	IEEE802.3af compliant (PoE system) 24 V AC ±20%, 50 Hz/60 Hz 12 V DC ±10%
Power Consumption	Max. 6 W
Operating Temperature	-10°C to +60°C (14°F to 140°F)
Cold Start Temperature	Higher than 0°C (32°F)
Storage Temperature	-20°C to +60°C (-4°F to 140°F)
Operating Humidity	20% to 80%
Storage Humidity	20% to 95%
Dimensions (W x H x D)	79 mm x 74 mm x 145 mm (3 1/8 inches x 3 inches x 5 3/4 inches)
Mass	570 g (1 lb 4 oz)
External Material	Top cover: SECC-CF
	Bottom cover: SECC-CF
	Front panel: ADC12
	Rear panel: PC
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
Fire Retardant	UL2044
Safety Regulations	JATE Technical Standard (LAN)
	UL2044, IEC60950-1 (CB)
	VCCI (Class A), FCC (Class A), IC (Class A)
	Emission: EN55022 (Class A) + EN50130-4
	Immunity: EN55022 (Class A) + EN55024
	Emission: AS/NZS CISPR22 (Class A)
	KCC
	EMC-TR
Supplied Accessories	CD-ROM (supplied programs) (1)
	Wire rope (1)
	Screw M4 × 8 (1)
	Installation Manual (1 set)
	Safety Regulations (1 set)
	C Mount Adaptor (1 set)
	DC 12 V/AC 24 V connector (1)

*SSM (Source Specific Multicast) is supported.

DIMENSIONS



CLASS 2 WIRING О 0



Unit: mm (inches)

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