SNC-VB630
Network Fixed FHD Camera – V Series

SONY
make.believe

Box-type 1080/60p Camera Powered by IPELA ENGINE EX™

- Maximum resolution of 1920 x 1080 pixels with the Exmor™ CMOS sensor
- High frame rate of 60 frames per second (fps)
- Dynamic range equivalent to 90 dB achieved with View-DR technology
- Scene analytics enhanced by unique features such as face detection
- H.264 (High/Main/Baseline Profile)/JPEG video codecs and AAC (16 kHz/48 kHz)/G.726/G.711 audio codecs
- Minimum illumination of 0.1 lx in Color mode and 0.07 lx in B/W mode at 50 IRE and 30 fps

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

  IPELA ENGINE EX

- 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

  View-DR

  OFF

  ON   Actual Images

- 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 and Audio Analytics to trigger an alarm based on user-defined rules

  DEPA Advanced

- XDNR (eXcellent Dynamic Noise Reduction) technology for clear images without motion blur under low illumination

  OFF

  ON   Actual Images

- SD card slot for an on-board recording capability*
- True D/N (Day/Night) function to switch to Day or Night mode depending on the light level
- Smartphone Viewer for accessing the camera from a smartphone
- Easy Focus/Easy Zoom for easy installation
- Powered by either PoE (IEEE 802.3af-compliant), AC 24 V ±20%, or DC 12 V ±10% for easy installation
- ONVIF (Open Network Video Interface Forum) Profile S conformance

  Onvif

- VBR (variable bitrate) or CBR (constant bitrate) encoding format selectable to correspond with various network conditions
- Easy initial network settings by supplied SNC Easy IP Setup Guide application
- Image Stabilizer to minimize the effect of camera shake or vibration for less blurry images

* Data recorded on an SD memory card may be lost or damaged by data access during power-off, mechanical shock, memory card detachment, or other operations. Data loss or damage can also occur when a memory card reaches end of life, which varies according to operational conditions. No guarantee is given against damage (including passive damage).
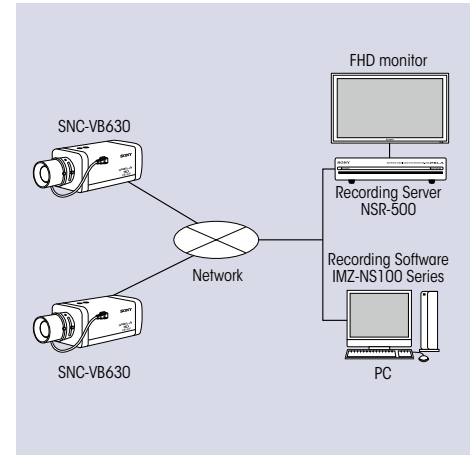
Connect Your Vision

IPELA™

SPECIFICATIONS

	SNC-VB630
Camera	
Image Sensor	1/2.9-type progressive scan Exmor CMOS sensor
Image Sensor (Number of Effective Pixels)	Approx. 2.14 Megapixels
Signal System	NTSC color system/PAL color system (switchable)
Minimum Illumination (50 IRE)	Color: 0.1 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps)
Minimum Illumination (30 IRE)	Color: 0.06 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) B/W: 0.05 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	More than 50 dB (Gain 0 dB)
Gain	Auto
Shutter Speed	1/1 s to 1/10000 s
Sync System	Internal synchronization
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	CS mount varifocal lens
Zoom Ratio	Optical zoom 2.9x, Digital zoom 2x [3]
Powered Focus	Yes (Easy Focus)
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
Horizontal Resolution	700 TV lines (analog video) [2]
Preset Position	8
Tour	5
Camera Features	
Day/Night	Yes
Wide-D	Yes (View-DR)
Image Enhancement	Visibility Enhancer (VE)
Noise Reduction	XDNR
Image Stabilizer	Yes [3] [6]
Image	
Codec Image Size (H x V)	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)
Video Compression Format	H.264 (High/Main/Baseline Profile), JPEG
Codec Streaming Capability	Triple Streaming [1], CBR/VBR (selectable) [4]
Maximum Frame Rate	H.264: 60 fps (1920 x 1080) JPEG: 60 fps (1280 x 720)
Audio	
Audio Compression Format	G.711/G.726/AAC (16 kHz, 48 kHz)
Scene Analytics	
Intelligent Motion Detection	Yes
Face Detection	Yes [5]
Rule-based Filter	DEPA Advanced [3]
Network	
Protocols	IPv4, TCP, UDP, ARP, ICMP, IGMP, HTTP, DHCP, DNS, NTP, RTP/RTCP, RTSP, SMTP, IPv6 [5], HTTPS [4], SNMP (MIB-2) [4]
Onvif Conformance	Yes (Profile S) [5]
Number of Clients	20
Authenticatoin	IEEE 802.1X [4]
Interface	
Analog Video Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, sync negative
Line Input	Mini jack (monaural)
Line Output	Mini jack (monaural), Maximum output level: 1 Vrms
Network Port	10BASE-T/100BASE-TX (RJ-45)
Sensor Input	x2, make contact, break contact
Alarm Output	x2, 24 V AC/DC, 1 A (mechanical relay outputs electrically isolated from the camera)
Microphone Input	Mini jack (monaural)
Card Slots	SD Card x1
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
Processor	Intel Corei7 2.8 GHz or higher
Memory	2 GB or more
Web Browser	Microsoft Internet Explorer Ver. 7.0, Ver. 8.0, Ver. 9.0 Firefox Ver. 3.5 (Plug-in free viewer only) Safari Ver. 4.0 (Plug-in free viewer only) Google Chrome Ver.4.0 (Plug-in free viewer only)
General	
Power Requirements	PoE system (IEEE 802.3af compliant), 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)
Starting 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 95%
Dimensions (W x H x D)	72 mm x 63 mm x 145 mm (2 7/8 inches x 2 1/2 inches x 5 3/4 inches) (without lens) 72 mm x 63 mm x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) (with lens)
Mass	Approx. 565 g (1 lb 4 oz) (with lens)
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)
Supplied Accessories	CD-ROM (supplied programs) (1), Installation manual (1), Wire rope (1), Screw M4 (1), DC 12/AC 24V connector (1), Safety regulations (1)

*1 Triple streaming (any combination with JPEG/H.264, including multiple streams of the same format)
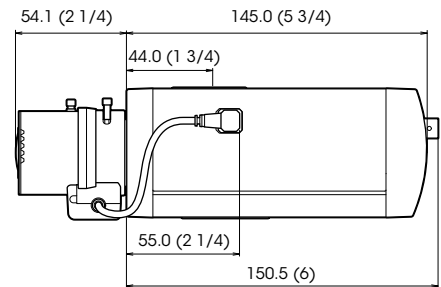*2 Monitor display ratio 4:3   *3 Version 1.2 or later   *4 Version 1.3 or later   *5 Version 1.4 or later   *6 Default setting: OFF
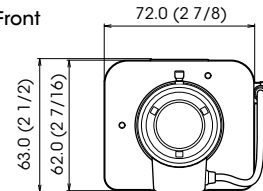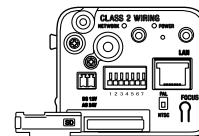
SYSTEM CONFIGURATION

DIMENSIONS

Side

Front

Rear

Unit: mm (inches)

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