SNC-VB600

Box-type 720p/60 fps Camera Powered by IPELA ENGINE EX[™] -V Series



Overview

The SNC-VB600 fixed network camera delivers a new range of features and level of performance for an HD surveillance camera, with a maximum resolution of 1280 x 1024 pixels and improved sensitivity, thanks to a new Exmor CMOS sensor.

The SNC-VB600 features the IPELA ENGINE EX signal processing system, providing advanced features such as high frame rate, and improved image processing with View-DR, XDNR and DEPA Advanced. The high frame rate mode – 60 fps and 50 fps – delivers smoother, more natural movement in the video. View-DR at 130 dB captures objects clearly, even under very harsh lighting conditions, such as strong backlight or high contrast conditions. XDNR (Excellent Dynamic Noise Reduction) delivers clear, low-noise, images in low light conditions. DEPA Advanced Intelligent Video and Audio Analytics triggers alarms according to user-defined rules. In-camera analytics are enhanced by additional features such as face detection, left object and removed object detection.

The camera SNC-VB600 offers a high sensitivity, with a minimum illumination of 0.05 lx in Colour mode and 0.04 lx in B/W mode. It can be powered by PoE (IEEE 802.3af-compliant), by AC 24 V +/-20% or by DC 12 V +/- 10%, for easy installation.

Features

Excellent 720p/60 fps HD picture quality

Gain the huge surveillance benefits of excellent picture quality with 720p/60 fps HD, with up to 1280 x 1024 maximum resolution.

High quality and low noise images with Exmor CMOS sensor

Derived from Sony's broadcast range, the high resolution Exmor CMOS sensor improves image acquisition with its low noise characteristics.

Unique features from IPELA ENGINE EX signal processing system

IPELA ENGINE EX delivers high frame rate of up to 60 fps*, View-DR, XDNR (eXcellent Dynamic Noise Reduction) and DEPA Advanced Intelligent Video and Audio Analytics.

*Note: high frame-rate mode and ViewDR cannot be used at the same time.

DEPA delivers intelligent, customisable image capture and alarm triggering

The Sony DEPA platform offers intelligent video analytics, delivered through a combination of the intelligence built into the camera and the rules and filters that determine which images should be recorded and when an alarm should be triggered.

Operates at low minimum illumination

The SNC-VB600 operates at a minimum illumination of 0.05 lx in Colour mode (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 30 fps) and 0.04 lx in B/W mode at 50 IRE and 30 fps.

Multiple video and audio codecs

The SNC-VB600 supports H.264 (High/Main/Baseline Profile) /JPEG video codecs and AAC (16 kHz/48 kHz)/G.726/G.711 audio codecs.

True Day/Night function for optimised images in all light conditions

Day/Night function automatically switches the camera between Day (colour) and Night (B/W) modes, depending on the light level. In Night mode, the IR-cut filter is removed so that the camera becomes sensitive to near-IR light and can reproduce images not visible to the naked eye.

ONVIF compliance for compatibility and confidence

The camera conforms to ONVIF (Open Network Video Interface Forum), the widely-accepted protocol for information exchange between network video devices, giving you confidence in its breadth and ease of compatibility.

Specifications 1/3-type progressive scan Exmor Image Sensor **CMOS** sensor Number of Effective Approx. 1.37 Megapixels Pixels Signal System NTSC/PAL (switchable) Sync System Internal synchronization Color: 0.05 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) Minimum Illumination B/W: 0.04 lx (F1.2, View-DR Off, VE (50 IRE) Off, AGC On, 1/30 s, 30 fps)

Minimum Illumination (30 IRE)	Color: 0.03 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps) B/W: 0.02 lx (F1.2, View-DR Off, VE Off, AGC On, 1/30 s, 30 fps)
Dynamic Range	Equivalent to 130 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	100.0 ° to 35.7 °

Vertical Viewing Angle	78.1 ° to 28.6 °
Focal Length	f = 2.8 mm to 8.0 mm
F-Number	F1.2 (Wide) to F1.95 (Tele)
Minimum Object Distance	300 mm

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
Privacy Masking (number)	20
Privacy Masking	Quadrangle formed by any four

(shape)	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
Smartphone viewer	Yes
Video	
	1280 × 1024, 1280 × 960, 1024 × 768, 1280 × 720, 800 × 600, 720 × 576, 720

Resolution

x 480, 704 x 576, 640 x 480, 352 x 288, 320 x 240 (H.264, JPEG)

Compression Format	H.264 (High/Main/Baseline Profile), JPEG
Maximum Frame Rate	H.264: 60 fps (1280 x 1024) JPEG: 60 fps (1280 x 1024)
Bitrate Control Mode	CBR/VBR (selectable)
Range of Bit Rate Setting	64 Kbps to 32 Mbps
Solid PTZ	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

Tamper Alarm	Yes
Scene Analytics	Passing, Intrusion, Left Object Detection, Removed Object Detection

Audic

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 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, 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)
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.
Number of IP Address/Mac ADDRESS	1
QoS	DSCP
Multicast Streaming Support	Yes
ONVIF Conformance	Profile S, Profile T
Authentication	IEEE802.1X

Interface	
	BNC x1, 1.0 Vp-p, 75 Ω, unbalance,
Analog Video Output	sync negative
	600 TV/lines (analogyideo) *1

Analog Video Output	sync negative 600 TV lines (analog video) *1
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
Confirmed SD Card Type	4/8/16/32 GB SDHC (no support for SDXC)

General	
Power Requirements	IEEE 802.3af compliant (PoE system), DC 12 V \pm 10%, AC 24 V \pm

	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 95 %
Dimensions *2	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 4 oz (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
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) Installation Manual (1) Wire rope (1) Screw M4 (1) DC 12/AC 24V connector (1) Safety regulations (1)

Notes	
*1	Monitor display ratio 4:3
*2	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)

Related products



HRX550/EXTOPBC6

Robust, IP66 rated dome housing for Sony PTZ cameras Pessurised temperature controlled vandalresistant security camera housing

OTBC2

Temperaturecontrolled vandal resistant outdoor security camera housing



Gallery



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