### 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

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

f, AGC On, 1/30 s, 30 fps) W: 0.02 lx (F1.2, View-DR Off, VE f, AGC On, 1/30 s, 30 fps)
uivalent to 130 dB with View-DR chnology
ore than 50 dB
to
1 s to 1/10,000 s
posure compensation, Shutter eed, Iris
W, ATW-PRO, Fluorescent lamp, ercury lamp, Sodium vapour mp, Metal halide lamp, White D, One push WB, Manual
-mount varifocal lens
otical zoom 2.9x gital zoom 4x tal zoom 11.6x
S
0.0° 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	
Resolution	1280 × 1024, 1280 × 960, 1024 × 768, 1280 × 720, 800 × 600, 720 × 576, 720

x 480, 704 x 576, 640 x 480, 352 x 288, 320 x 240 (H.264, JPEG)
H.264 (High/Main/Baseline Profile), JPEG
H.264: 60 fps (1280 x 1024) JPEG: 60 fps (1280 x 1024)
CBR/VBR (selectable)
64 Kbps to 32 Mbps
Yes
H.264
JPEG
Yes (3)
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	
Analog Video Output	BNC x1, 1.0 Vp-p, 75 Ω, unbalance, 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



#### SNCA-CEILING

Mounting coupling for pendant applications



## SNCA-POLE30

Mounting pipe for pendant mount applications



#### **UNI-WMB3**

Wall mount bracket for PTZ dome mount security camera housings



#### UNI-XBS1/T

Silver bracket for SNC-CH110S and SNC-CH210S



#### UNI-OPL7C3

Outdoor Pressurized dome camera housing



#### UNI-OPBC6

Pessurised temperature controlled vandalresistant security camera housing



#### UNI-OTBC2

Temperaturecontrolled vandal resistant outdoor security camera housing

### Gallery

