

New Generation of IP Surveillance Cameras










The IPELA ENGINE EX is Sony's integrated signal processing system for high picture quality which combines the company's unique signal processing and video analytics technologies. This signal processing system provides four unique features:

1. High frame rate of 60 frames per second (fps) – provides smooth moving pictures
2. View-DR – realizes high-contrast images with a wide dynamic range equivalent to 90 dB for 1080 full-HD and 130 dB for HD
3. XDNR – realizes excellent dynamic noise reduction
4. Enhanced DEPA Advanced – provides state-of-the-art video image analytics such as face detection












IPELA
ENGINE EX

Sony G6 V Series IP Camera Line-up quick reference

Box	Indoor Minidome	Indoor Vandal Minidome IK10
<div>Full HD 1080 View-DR 60fps</div>  <p>VB630</p>	 <p>VM630</p>	 <p>VM631</p>
<div>HD View-DR 60fps</div>  <p>VB600</p>	 <p>VM600</p>	 <p>VM601</p>
<div>HD View-DR 30fps</div>  <p>VB600B</p>	 <p>VM600B</p>	 <p>VM601B</p>

G6 V Series IP Cameras

Series name	G6 V Series								
Model name	SNC-VB630	SNC-VB600	SNC-VB600B	SNC-VM630	SNC-VM600	SNC-VM600B	SNC-VM631	SNC-VM601	SNC-VM601B
Category	Network Fixed FHD Camera			Network Mini Dome HD Camera			Network Vandal Mini Dome HD Camera		
									
Video compression format	H.264 (High/Main/Base Line)/JPEG								
Codec streaming capability	Triple streaming (any combination with H.264/JPEG, including multiple streams of the same format)								
Video format	Full HD	HD ^{(*)1}	HD ^{(*)1}	Full HD	HD ^{(*)1}	HD ^{(*)1}	Full HD	HD ^{(*)1}	HD ^{(*)1}
Maximum resolution	1920 x 1080 (2 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1920 x 1080 (2 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1920 x 1080 (2 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)
Vandal resistant	No	No	No	No	No	No	IK10	IK10	IK10
Horizontal viewing angle	114.2° to 40.0°	100.0° to 35.7°	100.0° to 35.7°	105.2° to 35.4°	93.0° to 31.6°	93.0° to 31.6°	105.2° to 35.4°	93.0° to 31.6°	93.0° to 31.6°
Zoom ratio	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom	3.0x optical zoom
Focal length	f = 2.8 mm to 8.0 mm	f = 2.8 mm to 8.0 mm	f = 2.8 mm to 8.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm	f = 3.0 mm to 9.0 mm
Lens	CS mount vari-focal lens	CS mount vari-focal lens	CS mount vari-focal lens	Built-in variable focal lens	Built-in variable focal lens	Built-in variable focal lens	Built-in variable focal lens	Built-in variable focal lens	Built-in variable focal lens
Image device	1/2.9-type progressive scan Exmor CMOS™ sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.9-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor
Wide-D (Dynamic range)	90 dB by View-DR	130 dB by View-DR	130 dB by View-DR	90 dB by View-DR	130 dB by View-DR	130 dB by View-DR	90 dB by View-DR	130 dB by View-DR	130 dB by View-DR
Minimum illumination	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE by IP)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE by IP)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE by IP)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE by IP)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE by IP)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE by IP)	Color: 0.1 lx, B/W: 0.07 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE by IP)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE by IP)	Color: 0.05 lx, B/W: 0.04 lx (F1.2, View-DR OFF, VE OFF, AGC ON, 1/30 s, 50 IRE by IP)
Maximum frame rate	60 fps (H.264/JPEG) at 1920 x 1080	60 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264/JPEG) at 1920 x 1080	60 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1280 x 1024	60 fps (H.264/JPEG) at 1920 x 1080	60 fps (H.264/JPEG) at 1280 x 1024	30 fps (H.264/JPEG) at 1280 x 1024
Day/Night	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)	Yes (True D/N)
Image enhancement	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)	Visibility Enhancer (VE)
Noise reduction	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)
Card slots	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1
Composite video out	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Scene analytics Intelligent motion detection Object detection Face detection Rule filter	Yes ^{(*)3} (DEPA Advanced)	Yes ^{(*)3} (DEPA Advanced)	Yes ^{(*)3} (DEPA Advanced)	Yes ^{(*)3} (DEPA Advanced)	Yes ^{(*)3} (DEPA Advanced)	Yes ^{(*)3} (DEPA Advanced)	Yes ^{(*)3} (DEPA Advanced)	Yes ^{(*)3} (DEPA Advanced)	Yes ^{(*)3} (DEPA Advanced)
Power requirements	PoE (IEEE 802.3af), AC24V, DC12V	PoE (IEEE 802.3af), AC24V, DC12V	PoE (IEEE 802.3af), AC24V, DC12V	PoE (IEEE 802.3af), AC24V, DC12V	PoE (IEEE 802.3af), AC24V, DC12V	PoE (IEEE 802.3af), AC24V, DC12V	PoE (IEEE 802.3af), AC24V, DC12V	PoE (IEEE 802.3af), AC24V, DC12V	PoE (IEEE 802.3af), AC24V, DC12V
Power consumption	6 W max.	6 W max.	6 W max.	6 W max.	6 W max.	6 W max.	6 W max.	6 W max.	6 W max.
Operating temperature	-10 °C to +50 °C (14°F to 122°F)	-10 °C to +50 °C (14°F to 122°F)	-10 °C to +50 °C (14°F to 122°F)	-10 °C to +50 °C (14°F to 122°F)	-10 °C to +50 °C (14°F to 122°F)	-10 °C to +50 °C (14°F to 122°F)	-10 °C to +50 °C (14°F to 122°F)	-10 °C to +50 °C (14°F to 122°F)	-10 °C to +50 °C (14°F to 122°F)
Dimensions	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens	148 x 108 mm (5 7/8 x 4 3/8 inches)	148 x 108 mm (5 7/8 x 4 3/8 inches)	148 x 108 mm (5 7/8 x 4 3/8 inches)	148 x 108 mm (5 7/8 x 4 3/8 inches)	148 x 108 mm (5 7/8 x 4 3/8 inches)	148 x 108 mm (5 7/8 x 4 3/8 inches)


(*)1 Definition of HD: More than 720p with H.264 streaming capability of more than 30/25 fps. (*)2 When using DynaView technology, the frame rate becomes 15 fps. (*)3 This is supported by the firmware version 1.3 or later.

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G5 Outdoor Rapid Dome Camera

Series name	G5 E Series
Model name	SNC-ER585H ^{(*)4}
Category	Network Rapid Dome FHD Camera
	
Video compression format	H264/MPEG-4/JPEG
Codec streaming capability	Dual streaming (any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format)
Computer display format	Full HD
Maximum resolution	1920 x 1080 (3 Mega)
Ingress protection	IP66
Vandal resistant	IK10
Horizontal viewing angle	65° (wide end)
Zoom ratio	30x optical zoom
Focal length	f = 4.6 mm to 138.3 mm
Lens	Auto-focus zoom lens
Image device	1/2.8-type progressive scan Exmor CMOS sensor
Wide-D	Dyna View
Dynamic range	TBD
Minimum illumination	Color: 1.7 lx, B/W: 0.3 lx (F1.6, AGC ON, 1/30 s, 50 IRE by IP)
Maximum frame rate	30 fps (H264)/20 fps (MPEG-4)/ 16 fps (JPEG) ^{(*)4} at 1920 x 1080
Day/Night	Yes (True D/N)
Image enhancement	Image Stabilizer
Noise reduction	XDNR
Card slots	SD/SDHC card x1
Scene analytics Intelligent motion detection Rule filter	Yes (DEPA)
"Rapid Dome" or "PTZ"	Rapid Dome
Pan/Tilt angle	360° endless rotation / 210° Tilt
Power requirements	AC24V
Power consumption	75 W max. (heater ON)/25 W max. (heater OFF)
Operating temperature	-5°C to +65°C
Dimensions	ø 222.0 x 323.9 mm (ø 8 3/4 x 12 7/8 inches)

(*)4 Available from April 2013