

# Hybrid Camera Solutions

## IPELA HYBRID™ - Sony's IP and Analog-over-Coax Technology\*<sup>1</sup> - Offers Cost-effective Retrofit Solutions for Existing Analog CCTV Systems

Sony offers a new video surveillance technology that can simultaneously transmit both IP and analog signals on a single coaxial cable. It allows customers to easily migrate to HD IP video surveillance systems with minimal investment, utilizing their existing analog infrastructure. Based on this technology - IPELA HYBRID - Sony offers solutions that comprise hybrid cameras along with SLOC-compatible devices\*<sup>2</sup> as their counterparts.

These unique solutions deliver the following advantages:

- Cost-effective surveillance systems that can be easily migrated from an analog CCTV system to an IP network-based system, making the most of any existing surveillance infrastructure (e.g. coaxial cables, local power supplies, matrix switchers, controllers, and video wall monitors)
- Simultaneous transmission of IP HD video and analog SD video (see diagram below)
- Utilization of the advanced features and functionalities offered by IP network cameras
- Maximum cable length of 1,000 feet (300 m) with an RG-59 coaxial cable\*<sup>3</sup>
- Minimized latency of analog video and PTZ control for video monitoring

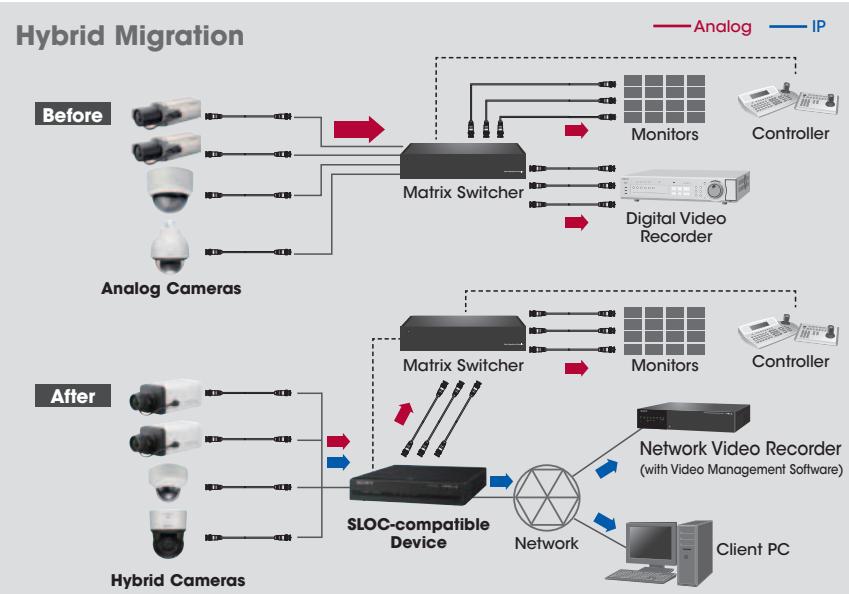
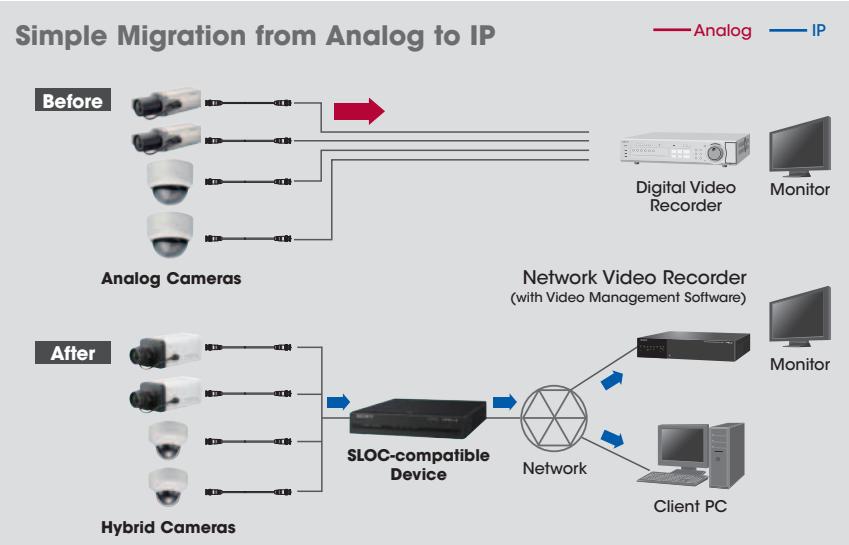
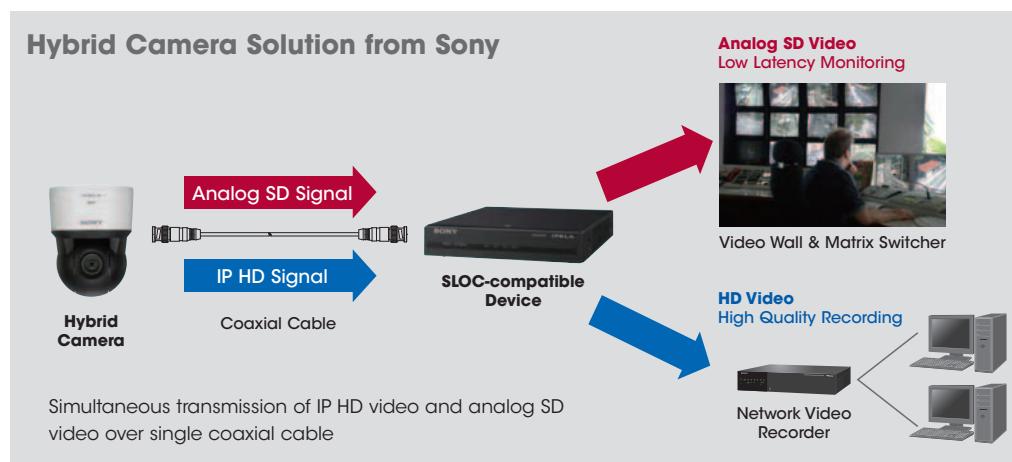
Sony's hybrid camera solutions can be used in a wide variety of surveillance applications, and in locations such as commercial facilities, financial institutions, office buildings, casinos, airports, government-related facilities, and schools.

\*<sup>1</sup> Sony's IP and analog-over-coax technology is developed based on Intersil Corporation's SLOC™ (Security Link Over Coax) technology.

\*<sup>2</sup> For information on SLOC-compatible devices, please contact your nearest Authorized Sony Reseller.

\*<sup>3</sup> Cable length varies according to cable grade and quality.

## Hybrid Camera Solution from Sony



# Hybrid Cameras

Model name	Z Series				
	SNC-ZB550	SNC-ZM551	SNC-ZM550	SNC-ZR550	SNC-ZP550
Hybrid Fixed Camera	Hybrid Vandal Mini Dome Camera	Hybrid Mini Dome Camera	Hybrid Rapid Dome Camera	Hybrid PTZ Camera	
					
Video compression format	H.264/MPEG-4/JPEG				
Codec streaming capability	Dual streaming (Any combination with H.264/MPEG-4/JPEG, including multiple streams of the same format) <sup>(*)1</sup>				
Computer display format	<b>HD</b> <sup>(*)2</sup>	<b>HD</b> <sup>(*)2</sup>	<b>HD</b> <sup>(*)2</sup>	<b>HD</b> <sup>(*)2</sup>	<b>HD</b> <sup>(*)2</sup>
Maximum resolution (IP)	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 720	1280 x 720
Signal system	NTSC color system/PAL color system (switchable)				
Vandal resistant	No	IK10	No	No	No
Horizontal viewing angle	96.5° to 33.9°	85.4° to 31.2°	85.4° to 31.2°	55.9° to 2.1°	55.9° to 2.1°
Zoom ratio	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	28x optical zoom	28x optical zoom
Focal length	f=2.8 mm to 8.0 mm	f=3.1 mm to 8.9 mm	f=3.1 mm to 8.9 mm	f=3.5 mm to 98 mm	f=3.5 mm to 98 mm
Lens type	CS mount lens	Built-in variable focal lens	Built-in variable focal lens	Auto-focus zoom lens	Auto-focus zoom lens
Image sensor	1/3-type Exmor CMOS sensor <b>Exmor</b>	1/3-type Exmor CMOS sensor <b>Exmor</b>	1/3-type Exmor CMOS sensor <b>Exmor</b>	1/4-type Exmor CMOS sensor <b>Exmor</b>	1/4-type Exmor CMOS sensor <b>Exmor</b>
Minimum illumination	Color: 0.50 lx, B/W: 0.30 lx (F1.2, shutter 1/30 s, AGC 42 dB, 50 IRE [IP])	Color: 0.50 lx, B/W: 0.30 lx (F1.2, shutter 1/30 s, AGC 42 dB, 50 IRE [IP])	Color: 0.50 lx, B/W: 0.30 lx (F1.2, shutter 1/30 s, AGC 42 dB, 50 IRE [IP])	Color: 1.00 lx, B/W: 0.10 lx (F1.35, shutter 1/30 s, AGC ON, 50 IRE [IP])	Color: 1.00 lx, B/W: 0.10 lx (F1.35, shutter 1/30 s, AGC ON, 50 IRE [IP])
Maximum frame rate	30 fps (H.264, MPEG-4, JPEG) at 1280 x 720	30 fps (H.264, MPEG-4, JPEG) at 1280 x 720	30 fps (H.264, MPEG-4, JPEG) at 1280 x 720	30 fps (H.264, MPEG-4, JPEG) at 1280 x 720	30 fps (H.264, MPEG-4, JPEG) at 1280 x 720
Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night	True Day/Night
Wide-D	No	No	No	Yes, <b>DynaView™</b>	Yes, <b>DynaView</b>
Noise reduction	Yes	Yes	Yes	Yes	Yes
Card slots	No	No	No	SD/SDHC card x 1	SD/SDHC card x 1
Wireless capability	No	No	No	No	No
Composite Video output	Yes, when SLOC switch is OFF	Yes, when SLOC switch is OFF	Yes, when SLOC switch is OFF	Yes, when SLOC switch is OFF	Yes, when SLOC switch is OFF
DEPA (Intelligence)					
ONVIF					
Rapid Dome or PTZ	No	No	No	 360° Pan	 340° Pan
Pan range	No	Rotation and pan range, + or - 180 degrees	Rotation and pan range, + or - 180 degrees	360 degrees endless rotation	340 degrees
Total tilt range	No	Tilt range +/- 70 degrees	Tilt range +/- 70 degrees	210° (15° above horizon)	105° (15° above horizon)
Power requirements	AC 24 V, DC 12 V	AC 24 V, DC 12 V	AC 24 V, DC 12 V	hPoE, AC 24 V <sup>(*)3</sup>	hPoE, AC 24 V <sup>(*)3</sup>
Power consumption	6 W max.	7 W max.	7 W max.	25 W max.	25 W max.
Dimensions	2 7/8 x 2 1/2 x 7 7/8 inches (72 x 63 x 197 mm) with lens, not including projecting parts	ø5 5/8 x 4 3/4 inches (ø140 x 119 mm)	ø5 5/8 x 4 3/4 inches (ø140 x 118 mm)	ø5 7/8 x 7 5/8 inches (ø147.4 x 190.9 mm)	ø5 7/8 x 7 5/8 inches (ø147.4 x 190.9 mm)

(\*)1 Dual streaming is available when analog output settings for the SLOC port are OFF.

(\*)2 Definition of HD: More than 720p with H.264 streaming capability of more than 30/25 fps.

(\*)3 When selecting the IP and Analog-over-Coax mode, the power supply supports only AC 24 V.

All cameras in this sheet comply with UL2044.

# Hybrid Camera Receiver

Model name	Z Series	
	SNCA-ZX104	4CH Hybrid Camera Receiver
		
Number of supported hybrid camera	4	
Camera input	BNC x 4	
Analog video output	BNC x 4	
Network port	RJ45 x 1 (100Base-TX/10Base-T)	
Serial interface	RS-485 x 1	
Supported Serial PTZ control protocol	Pelco-D	
Power requirements	DC 12 V (AC 100 V to AC 127 V, AC 200 V to AC 240 V, 50/60 Hz for AC adaptor)	
Dimensions (W x H x D)	8 1/3 x 1 3/4 x 9 7/8 inches (210 x 44 x 250 mm) not including projecting parts	

Model name	Hybrid Receiver Rack Mount Kit	
	RMM-ZX104	
	19", 1U rack mount kit for the SMCA-ZX104.	
	Two units can be installed side-by-side per rack kit.	
	Made in USA.	
Unit color	Black / Steel construction	
Supplied Accessories	Eight (8) screws (4flat / 4 round head) to attach SMCA-ZX104 to the rack kit, and four (4) rack mount screws.	
Optional Accessories	Rack mount clips are not included.	
Dimensions (WHD)	19" x 1-3/4" x 12	