Hybrid Camera Solutions

IPELA HYBRID™– Sony's IP and Analogue over Coax Technology* – Offers Cost-effective and Environmentally-friendly Retrofit Solutions for Existing Analogue CCTV Systems

Sony offers a new video surveillance technology providing simultaneous transmission of IP and analogue signals over a conventional coaxial video cable. This provides an easy migration path from analogue to IP, utilizing existing infrastructure to keep cost to a minimum.
The Sony IPELA HYBRID solution comprises a range of hybrid cameras that connect via coax cable to a 4-channel receiver.

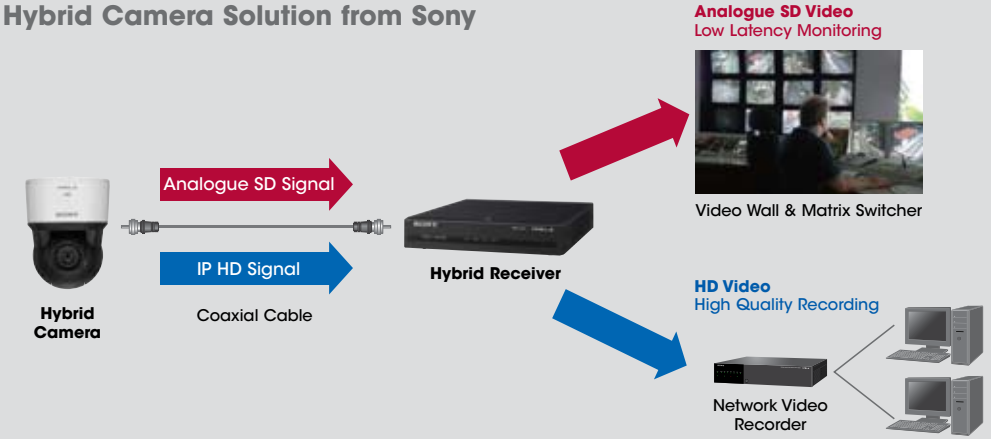
These unique solutions deliver the following advantages:

- Cost-effective and environmentally-friendly surveillance systems that can be easily migrated from an analogue CCTV system to an IP network-based system, making the most of any existing surveillance infrastructure (eg, coaxial cables, local power supplies, matrix switchers, controllers, and video wall monitors)
- Simultaneous use of IP HD video and analogue SD video
- Utilization of the advanced features and functionalities offered by IP network cameras
- Extended cable length of up to 300 m (1,000 feet)**
- Minimized latency of analogue video for live monitoring

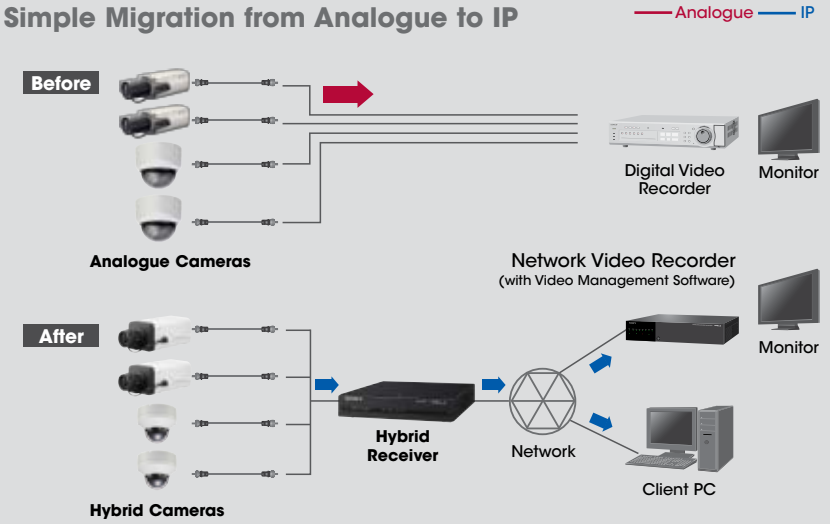
The Sony IPELA HYBRID solution is ideally suited to a broad range of applications in locations where extensive analogue infrastructure is already in place, and where long cable runs are required, such as commercial buildings, transport facilities, government buildings, education and casinos.

* Sony's IP and analogue over coax technology is developed based on Intersil Corporation's SLOC™ (Security Link Over Coax) technology.
** Max cable length depends on cable grade and condition.

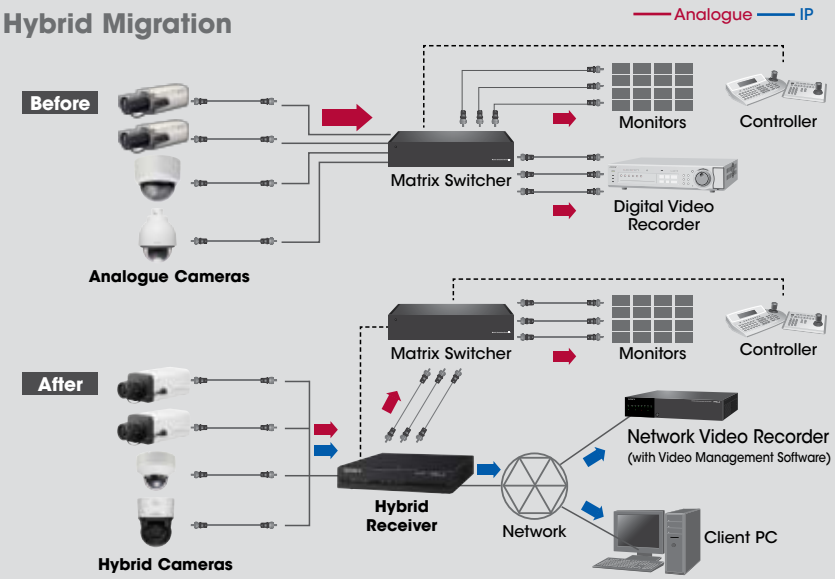
Hybrid Camera Solution from Sony



Simple Migration from Analogue to IP



Hybrid Migration



Hybrid Cameras

Model name	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)				
Computer display format	HD (*1)	HD (*1)	HD (*1)	HD (*1)	HD (*1)
Maximum resolution (IP)	1280 x 1024 (1.3 Mega) 1.3M	1280 x 1024 (1.3 Mega) 1.3M	1280 x 1024 (1.3 Mega) 1.3M	1280 x 720 1M	1280 x 720 1M
Analogue video output	NTSC standard/PAL standard (selectable)				
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 to 8 mm	f=3.1 to 8.9 mm	f=3.1 to 8.9 mm	f=3.5 to 98 mm	f=3.5 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 device	1/3 type progressive scan Exmor CMOS sensor Exmor	1/3 type progressive scan Exmor CMOS sensor Exmor	1/3 type progressive scan Exmor CMOS sensor Exmor	1/4 type Exmor CMOS sensor Exmor	1/4 type Exmor CMOS sensor Exmor
Minimum illumination	Color: 0.50 lx, B/W: 0.30 lx (F1.2/AGC 42dB/50IRE (IP))	Color: 0.50 lx, B/W: 0.30 lx (F1.2/AGC 42dB/50IRE (IP))	Color: 0.50 lx, B/W: 0.30 lx (F1.2/AGC 42dB/50IRE (IP))	Color: 0.7 lx (F1.35/AGC ON/shutter 1/30 s/30 IRE (IP)), B/W: 0.07 lx (F1.35/AGC ON/shutter 1/30 s/30 IRE (IP))	Color: 0.7 lx (F1.35/AGC ON/shutter 1/30 s/30 IRE (IP)), B/W: 0.07 lx (F1.35/AGC ON/shutter 1/30 s/30 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	30 fps H.264/MPEG-4/JPEG
Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night
Wide-D	No	No	No	DynaView	DynaView
Noise reduction	Yes	Yes	Yes	Yes	Yes
Card slots	No	No	No	SD card x 1	SD card x 1
Wireless capability	No	No	No	No	No
DEPA (Intelligence)	DEPA	DEPA	DEPA	DEPA	DEPA
ONVIF	ONVIF	ONVIF	ONVIF	ONVIF	ONVIF
"Rapid Dome" or "PTZ"	No	No	No	Endless 360° Pan Rapid Dome	340° Pan PTZ
Pan angle	No	No	No	360 degrees endless rotation	340 degrees
Tilt angle	No	No	No	-105° to +105° (210° tilt)	-15° to +90°
Power requirements	AC 24 V, DC 12 V	AC 24 V, DC 12 V	AC 24 V, DC 12 V	hPoE, AC 24 V (*2)	hPoE, AC 24 V (*2)
Power consumption	6 W max. (TBD)	7 W max. (TBD)	7 W max. (TBD)	TBD	TBD
Dimensions	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches) with lens, not including projecting parts	ø140 x 119 mm (ø5 5/8 x 4 3/4 inches)	ø140 x 118 mm (ø5 5/8 x 4 3/4 inches)	ø147.4 x 190.9 mm (ø5 7/8 x 7 5/8 inches)	ø147.4 x 190.9 mm (ø5 7/8 x 7 5/8 inches)

(*1) Definition of HD: More than 720p with H.264 streaming capability of more than 30/25 fps.
(*2) When selecting the IP and Analogue over Coax mode, the power supply supports only AC 24 V.

All cameras in this sheet comply with UL2044.

Hybrid Camera Receivers

Model name	SNCA-ZX104	SNCA-ZP104
	4CH Hybrid Camera Receiver	4CH Hybrid Camera Receiver
		
Number of supported hybrid camera	4	
Camera input	BNC x 4	
Analogue video output	BNC x 4	
Network port	RJ45 x 1 (100Base-TX/10Base-T)	
Serial interface	RS-485 x 1	No
Supported Serial PTZ control protocol	Pelco-D	No
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)	
Power consumption	Approx. 8.5 W/9.0 W (AC 100 V/AC 240 V) with AC adaptor	
Dimensions (W x H x D)	210 x 44 x 250 mm (8 1/3 x 1 3/4 x 9 7/8 inches) not including projecting parts	

sloc™