

IP Surveillance Cameras



IPELA

Category	IP Fixed Cameras										
Sony Network Cameras			Onvif Exmor HD	Onvif Martin HD		Convir Convir Vault Rest Rest Rest Rest Rest	Onvif Exmor HD	Onvir ImeDR Exmar HD		Convir Convir Vandor Fanto RNN	
Model name	SNC-CH110	SNC-CH210	SNC-CH120	SNC-CH140	SNC-CH220	SNC-CH240	SNC-CH160	SNC-CH180	SNC-CH260	SNC-CH280	
Generation / Series	G5 / X Series	G5 / X Series	G5 / E Series	G5 / V Series	G5 / E Series	G5 / V Series	G5 / E Series	G5 / V Series	G5 / E Series	G5 / V Series	
Video compression format					JPEG/MPE	G-4/H.264	I				
Codec streaming capability	Dual streaming (Any combination with IPEG/MPEG-4/H 264 including multiple streams of the same format)										
HD/Megapixel (*1)	HD	Full HD resolution 1080	HD	HD	Full HD	Full HD	HD	HD	Full HD	Full HD	
Maximum resolution (*2)	1280 x 960 (1.3 Mega)	2048 x 1536 (3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)	
Ingress protection	No	No	No	No	No	No	IP66	IP66	IP66	IP66	
IR illuminators	No	No	No	No	No	No	IR	IR	IR	IR	
Horizontal viewing angle	80.7°	88°	96.5° to 33.9°	96.5° to 33.9°	101.2° to 47.0°	101.2° to 47.0°	85.4° to 31.2°	85.4° to 31.2°	88.5° to 32.3°	88.5° to 32.3°	
Optical zoom ratio	Fixed focal lens	Fixed focal lens	2.9x optical zoom	2.9x optical zoom	2.1x optical zoom	2.1x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	
Focal length	f=2.34	f=3.3 mm	f=2.8 to 8mm	f=2.8 to 8.0mm	f=2.8 to 6.0 mm	f=2.8 to 6.0 mm	f=3.1 to 8.9mm	f=3.1 to 8.9mm	f=3.1 to 8.9 mm	f=3.1 to 8.9 mm	
Lens mount	Built-in	Built-in	CS mount	CS mount	CS mount	CS mount	Built-in	Built-in	Built-in	Built-in	
Imager	1/3.8-type progressive scan CMOS sensor	1/2.8-type progressive scan Exmor CMOS Sensor	1/3-type progressive scan Exmor CMOS Sensor	1/3-type progressive scan Exmor CMOS Sensor	1/2.8-type progressive scan Exmor CMOS Sensor	1/2.8-type progressive scan Exmor CMOS Sensor	1/3-type progressive scan Exmor CMOS Sensor	1/3-type progressive scan Exmor CMOS Sensor	1/2.8-type progressive scan Exmor CMOS Sensor	1/2.8-type progressive scan Exmor CMOS Sensor	
Minimum illumination	5.0 lx (AGC 30 dB/50 IRE [IP])	2.0 lx (AGC 38 dB/50 IRE [IP])	Colour: 0.5 lx, B/W: 0.3 lx (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.2 lx, B/W: 0.1 lx (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])	Colour: 0.7 lx, B/W: 0.45 lx (F1.3/AGC 42 dB/50 IRE [IP])	Colour: 0.4 lx, B/W: 0.25 lx (F1.3/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])	Colour: 0.5 lx, B/W: 0 lx (IR ON) (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.22 lx, B/W: 0 lx (IR ON) (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])	Colour: 0.7 lx, B/W: 0 lx (IR ON) (F1.2/AGC 42dB / 50IRE [IP])	Colour: 0.4 lx, B/W: 0 lx (IR ON) (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])	
Maximum frame rate (*3)	30 fps H.264 MPEG-4/JPEG at 1280 x 960/ 1280 x 720	30 fps H.264/MPEG-4/ JPEG at 1280 x 720; 15 fps H.264/MPEG-4/JPEG at 1920 x 1080	30 fps H.264/JPEG/MPEG- 4 at 1280 x 720	30 fps H.264/JPEG/MPEG- 4 at 1280 x 720	30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080	30 fps H.264/JPEG/MPEG- 4 at 1280 x 720	30 fps H.264/JPEG/MPEG- 4 at 1280 x 720	30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080	
Day/Night	Electrical D/N	Electrical D/N	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	
Wide-D Visibility Enhancer (VE)	No	No	No	View-DR VE	No	View-DR VE	No	View-DR VE	No	View-DR VE	
Noise reduction	Yes	Yes	Yes	Yes (XDNR)	Yes	Yes (XDNR)	Yes	Yes (XDNR)	Yes	Yes (XDNR)	
Card slot(s)	No	No	No	CF card x1	No	CF card x1	No	CF card x1	No	CF card x1	
Wireless capability	No	No	No	Yes (option)	No	Yes (option)	No	Yes (option)	No	Yes (option)	
Composite video output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	
DEPA (Intelligence)	Yes	Yes	Yes	Yes	Yes	Yes (DEPA Advanced)	Yes	Yes (DEPA Advanced)	Yes	Yes (DEPA Advanced)	
Power requirement	PoE (Class 1)	PoE (Class 1)	PoE (Class 2)	AC 24V, DC 12 V, PoE (Class 0)	PoE (Class 2)	AC 24V, DC 12 V, PoE (Class 0)	PoE (Class 0)	AC 24V, DC 12 V, PoE (Class 0)	PoE (Class 0)	AC 24V, DC 12 V, PoE (Class 0)	
Power consumption	2.4 W max.	2.4 W max.	5 W max.	9 W max.	5 W max.	11.2 W max.	12.9 W max.	30 W max.	12.9 W max.	33 W max.	
Dimensions	ø44 x 93 mm (1 3/4 x 3 3/4 inches)	ø44 x 93 mm (1 3/4 x 3 3/4 inches)	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)	72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 7/8 inches)	72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 7/8 inches)	ø93 x 186 mm (3 3/4 x 7 3/8 inches)	ø93 x 186 mm (3 3/4 x 7 3/8 inches)	ø93 x 186 mm (3 3/4 x 7 3/8 inches)	ø93 x 186 mm (3 3/4 x 7 3/8 inches)	

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

(*2) When the Maximum resolution includes "/" such as "704 x 480/704 x 576" in this table, please read as "704 x 480" (NTSC) and "704 x 576" (PAL). (*3) When the frame rate includes "/" such as "30/25 (ps" in this table, please read as "30 (ps" (NTSC model) and "25 (ps" (PAL model).

Category	IP Rapid Dome and PTZ Cameras										
Sony Network Cameras	1	Surren									
		DEPA	DEPA	DEPA	DynaView	DynaView	DynaView	DynaView	DynaView	HD	HD
Model name (*1)	SNC-RZ25N/P	SNC-RZ50N/P	SNC-RX530N/P	SNC-RX550N/P	SNC-RX570N/P	SNC-RS44N/P	SNC-RS46N/P	SNC-RS84N/P	SNC-RS86N/P	SNC-RH124	SNC-RH164
Generation / Series	G2	G3	G3	G3	G3	G5	G5	G5	G5	G5	G5
Video compression format	JPEG/MPEG-4		JPEG/MPE	G-4/H.264							
Codec streaming capability	Single streaming (JPEG/MPEG4 selectable)	ming electable) Dual streaming (JPEG and MPEG-4 combination only)					e streaming (Any combine including multiple stree	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)			
HD/Megapixel (*2)	SD	SD	SD	SD	SD	SD	SD	SD	SD	HD	HD
Maximum resolution (*3)	640 x 480	704 x 480 / 704 x 567	704 x 480 / 704 x 567	704 x 480 / 704 x 567	704 x 480 / 704 x 567	704 x 480 / 704 x 567	1280 x 720	1280 x 720			
Ingress protection	No	No	No	No	No	No	No	IP66	IP66	No	IP66
Vandal resistant	No	No	No	No	No	No	No	IK10	IK10	No	IK10
Horizontal viewing angle	48° to 2.7°	42.0° to 1.7°	48.0° to 2.8°	54.2° to 2.2°	57.8° to 1.7°	48.0° to 2.8°	57.8° to 1.7°	48.0° to 2.8°	57.8° to 1.7°	50° to 5.4°	50° to 5.4°
Optical zoom ratio	18x optical zoom	26x optical zoom	18x optical zoom	26x optical zoom	36x optical zoom	18x optical zoom	36x optical zoom	18x optical zoom	36x optical zoom	10x optical zoom	10x optical zoom
Focal length	f=4.1 to 73.8 mm	f=3.5 to 91.0 mm	f=4.1 to 73.8 mm	f=3.5 to 91.0 mm	f=3.4 to 122.4 mm	f=4.1 to 73.8 mm	f=3.4 to 122.4 mm	f=4.1 to 73.8 mm	f=3.4 to 122.4 mm	f=5.1 to 51mm	f=5.1 to 51 mm
Imager	1/4-type Exwave HAD CCD sensor	1/4-type Super HAD CCD sensor	1/4-type Exwave HAD CCD sensor	1/4-type Exwave HAD CCD sensor	1/4-type Exwave HAD CCD sensor	1/4-type Exwave HAD CCD sensor	1/4-type Exwave HAD CCD sensor	1/4-type Exwave HAD CCD sensor	1/4-type Exwave HAD CCD sensor	1/3-type HD CMOS sensor	1/3-type HD CMOS sensor
Minimum illumination	Colour 0.7 lx, B/W: 0.06 lx (50 IRE, F1.4, AGC ON)	Colour: 2.2 lx, B/W: 0.3 lx (50 IRE, F1.6, AGC ON)	Colour: 0.7 lx (50 IRE, F1.4, AGC ON), B/W: 0.15 lx (50 IRE, F1.4, AGC ON)	Colour: 1 lx, B/W: 0.15 lx (50 IRE, F1.6, AGC ON)	Colour: 1.4 lx, B/W: 0.15 lx (50 IRE, F1.6, AGC ON)	(*4) Colour: 0.4 lx, B/W: 0.08 lx (50 IRE, XDNR ON, VE ON, Slow Shutter OFF)	(*4) Colour: 0.7 lx, B/W: 0.08 lx (50 IRE, XDNR ON, VE ON, Slow Shutter OFF)	(*5) Colour: 0.4 lx, B/W: 0.09 lx (50 IRE, XDNR ON, VE ON, Slow Shutter OFF)	(*5) Colour: 0.8 lx, B/W: 0.09 lx (50 IRE, XDNR ON, VE ON, Slow Shutter OFF)	Colour: 1.9 lx, B/W: 0.17 lx (50 IRE, XDNR ON, VE ON, Slow Shutter OFF)	Colour: 2.1 lx, B/W: 0.19 lx (50 IRE, XDNR ON, VE ON, Slow Shutter OFF)
Maximum frame rate (*6)	18 fps JPEG or 15 fps MPEG-4 at VGA resolution; 30/25 fps JPEG or MPEG-4 at QVGA resolution	30/25 fps JPEG/ MPEG-4 at 704 x 480/ 704 x 576 resolution; 10/8 fps H.264 at 704 x 480/704 x 576 resolution	30/25 fps JPEG/ MPEG-4 at 704 x 480/ 704 x 576 resolution; 10/8 fps H.264 at 704 x 480/704 x 576 resolution	30/25 fps JPEG/ MPEG-4 at 704 x 480/ 704 x 576 resolution; 10/8 fps H.264 at 704 x 480/704 x 576 resolution	30/25 fps JPEG/ MPEG-4 at 704 x 480/ 704 x 576 resolution; 10/8 fps H.264 at 704 x 480/704 x 576 resolution	30/25 fps H.264/ MPEG-4/JPEG at 720 x 480/720 x 576 resolution	30/25 fps H.264/ MPEG-4/JPEG at 720 x 480/720 x 576 resolution	30/25 fps H.264/ MPEG-4/JPEG at 720 x 480/720 x 576 resolution	30/25 fps H.264 MPEG-4/JPEG at 720 x 480/720 x 576 resolution	30 fps H.264/MPEG-4/ JPEG at 1280 x 720	30 fps H.264/MPEG-4/ JPEG at 1280 x 720
Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night
Wide-D Visibility Enhancer (VE)	No	No	No	No	Dyna View	Dyna View VE	Dyna View VE	Dyna View VE	Dyna View VE	VE	VE
Noise reduction	No	Yes	Yes	Yes	No	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)	Yes (XDNR)
Card slot(s)	CF card x1	PC card x1, CF card x1	PC card x1, Memory Stick x1	PC card x1, Memory Stick x1	PC card x1, Memory Stick x1	CF card x1	CF card x1	CF card x1	CF card x1	CF card x1	CF card x1
Wireless capability	Yes (option)	Yes (option)	Yes (option)	Yes (option)	Yes (option)	Yes (option)	Yes (option)	Yes (option)	Yes (option)	Yes (option)	Yes (option)
Composite video output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEPA (Intelligence)	No	Yes (*7)	Yes (*7)	Yes (*7)	Yes (*7)	Yes (DEPA Advanced)	Yes (DEPA Advanced)	Yes (DEPA Advanced)	Yes (DEPA Advanced)	Yes (DEPA Advanced)	Yes (DEPA Advanced)
"Rapid Dome" or "PTZ"	PTZ	PTZ	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome	Rapid Dome
Pan angle	340 degrees	340 degrees	360 degrees endless	360 degrees endless	360 degrees endless	360 degrees endless	360 degrees endless	360 degrees endless	360 degrees endless	360 degrees endless	360 degrees endless
Tilt angle	0° to +120°	0° to +115°	0° to -90°	0° to -90°	0° to -90°	-105° to +105° (210° tilt)	-105° to +105° (210° tilt)	-105° to +105° (210° tilt)	-105° to +105° (210° tilt)	-105° to +105° (210° tilt)	-105° to +105° (210° tilt)
"Quick Release" mechanism	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Power requirement	AC 24 V, DC 12 V	DC 12 V	AC 24 V, DC 12 V	AC 24 V, DC 12 V	AC 24 V, DC 12 V	AC 24 V, DC 12 V, hPoE(Class 4) (*8)	AC 24 V, DC 12 V, hPoE (Class 4) (*8)	AC 24 V	AC 24 V	AC 24 V, DC 12 V, hPoE (Class 4) (*8)	AC 24 V
Power consumption	17 W max.	20 W max.	25 W max.	25 W max.	25 W max.	23 W max.	23 W max.	78 W max.	78 W max.	25 W max.	80 W max.
Dimensions	140 x 200 x 148 mm (5 5/8 x 8 7/8 x 5 7/8 inches)	140 x 166 x 142 mm (5 5/8 x 6 5/8 x 5 5/8 inches)	160 x 160 x 230 mm (6 3/8 x 6 3/8 x 9 1/8 inches)	160 x 160 x 230 mm (6 3/8 x 6 3/8 x 9 1/8 inches)	160 x 160 x 230 mm (6 3/8 x 6 3/8 x 9 1/8 inches)	ø154 x 226 mm (6 1/8 x 9 inches)	ø154 x 226 mm (6 1/8 x 9 inches)	ø238 x 344 mm (9 3/8 x 13 5/8 inches)	ø238 x 344 mm (9 3/8 x 13 5/8 inches)	ø154 x 226 mm (6 1/8 x 9 inches)	ø238 x 346 mm (9 3/8 x 13 5/8 inches)

(*1) When the model name includes "/" (slash) such as "SNC-RX530N/P" in this table, please read as "SNC-RX530N" (NTSC model) and "SNC-RX530P" (PAL model). (*2) Definition of HD: More than 720p with H.264 streaming capability at more than 30/25 fps.

(*3) When the Maximum resolution includes */" such as *704 x 480/704 x 576" in this table, please read as *704 x 480" (NTSC) and *704 x 576" (PAL).

(*5) Min. Illumination of Analog Video of SNC-RS84N/P and SNC-RS86N/P is as follows. Colour: 1.4 lx, B/W: 0.15 lx (50 IRE, Slow Shutter OFF).

(*6) When the frame rate includes '/' such as "30/25 fps" in this table, please read as "30 fps" (NTSC) and "25 fps" (PAL). In the same manner, "704 x 480/704 x 576" means "704 x 480" (NTSC) and "704 x 576" (PAL).

(*7) DEPA Intelligent Object Detection is included in this model.

(*4) Min. Illumination of Analog Video Output of SNC-RS44N/P and SNC-RS46N/P is different from IP video output. Colour: 0.7 kx, B/W: 0.15 kx (50 IRE, Slow Shutter OFF). (*8) hPoE is available from the firmware version 1.2.

Category	IP Rapid Dome and PTZ Cameras						IP Mini Dome Cameras								
Sony Network Cameras		Onvif DynaView	CILVIF Exmor DynaView HD	Onvif Exmor DynaView HD						Onvir Im Exmor HD		Onvir Ime DR Exmor HD			
Model name (*1)	SNC-EP520/EP521	SNC-ER520/ER521	SNC-EP550	SNC-ER550	SNC-EP580	SNC-ER580	SNC-DH110	SNC-DH210	SNC-DH120	SNC-DH140	SNC-DH220	SNC-DH240			
Generation / Series	G5 / E Series	G5 / E Series	G5 / E Series	G5 / E Series	G5 / E Series	G5 / E Series	G5 / X Series	G5 / X Series	G5 / E Series	G5 / V Series	G5 / E Series	G5 / V Series			
Video compression format	JPEG/MPEG-4/H.264							JPEG/MPEG-4/H.264							
Codec streaming capability	Dual str	eaming (Any combination	with JPEG/MPEG-4/H.2	264, including multiple	e streams of the same f	ormat)	Duo	al streaming (Any comb	nation with JPEG/MPEG-4/	/H.264, including multiple	streams of the same for	mat)			
HD/Megapixel (*2)	SD	SD	HD	HD	Full HD	Full HD	HD	Full HD resolution 1080	HD	HD	Full HD	Full HD			
Maximum resolution (*3)	720 x 480 / 720 x 576	720 x 480 / 720 x 576	1280 x 720	1280 x 720	1920 x 1080	1920 x 1080	1280 x 960 (1.3 Mega)	2048 x 1536 (3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)			
Ingress protection	No	No	No	No	No	No	No	No	No	No	No	No			
Vandal resistant	No	No	No	No	No	No	No	No	No	No	No	No			
IR illuminators	No	No	No	No	No	No	No	No	No	No	No	No			
Horizontal viewing angle	57.8° to 1.7°	57.8° to 1.7°	55.9° to 2.1°	55.9° to 2.1°	55.4° to 2.9°	55.4° to 2.9°	80.7°	88°	85.4° to 31.2°	85.4° to 31.2°	88.5° to 32.3°	88.5° to 32.3°			
Optical zoom ratio	36X optical zoom	36X optical zoom	28X optical zoom	28X optical zoom	20X optical zoom	20X optical zoom	Fixed focal lens	Fixed focal lens	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom			
Focal length	f=3.4 to 122.4 mm	f=3.4 to 122.4 mm	f=3.5 to 98 mm	f=3.5 to 98 mm	f=4.7 to 94 mm	f=4.7 to 94 mm	f=2.34	f=3.3	f=3.1 to 8.9mm	f=3.1 to 8.9mm	f=3.1 to 8.9 mm	f=3.1 to 8.9 mm			
Imager	1/4-type EXview HAD CCD	1/4-type EXview HAD CCD	1/4-type Exmor CMOS	1/4-type Exmor CMOS	1/2.8-type Exmor CMOS	1/2.8-type Exmor CMOS	1/3.8-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor			
Minimum illumination	Color: 1.4 lx, B/W: 0.15 lx (F1.6, shutter 1/60sec/ 1/50sec (*5), AGC ON, 50 IRE [IP])	Color: 1.4 lx, B/W: 0.15 lx (F1.6, shutter 1/60sec/ 1/50sec (*5), AGC ON, 50 IRE [IP])	Color: 2.0 Ix (Tentative)	Color: 2.0 lx (Tentative)	Color: 1.7 lx, B/W: 0.07 lx (F1.6, shutter 1/30sec, AGC ON, 50IRE[IP])	Color: 1.7 lx, B/W: 0.07 lx (F1.6, shutter 1/30sec, AGC ON, 50IRE[IP])	5.0 lx (AGC 30 dB/50 IRE [IP])	2.0 lx (AGC 38dB)/50 IRE [IP])	Colour: 0.5 lx, B/W: 0.3 lx (F1.2/AGC 42 dB/ 50 IRE [IP])	Colour: 0.2 Ix, B/W: 0.1 Ix (F1.2 View- DR OFF/ XDNR ON-Middle/ VE OFF/AGC High/50 IRE [IP])	Colour: 0.7 lx, B/W: 0.45 lx (F1.2/AGC 42 dB/ 50 IRE [IP])	Colour: 0.4 lx, B/W: 0.25 lx (F1.2 View-DR OFF/ XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])			
Maximum frame rate (*4)	30/25 fps H.264/ MPEG-4/JPEG	30/25 fps H.264/ MPEG-4/JPEG	30 fps H.264/ MPEG-4/JPEG	30 fps H.264/ MPEG-4/JPEG	30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080	30 fps H.264/MPEG-4/ JPEG at 1280 x 960/ 1280 x 720	30 fps H.264/MPEG-4/ JPEG at 1280 x 720; 15 fps H.264/ MPEG- 4/JPEG at 1920 x 1080	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 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080			
Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Electrical D/N	Electrical D/N	Day/Night	Day/Night	Day/Night	Day/Night			
Wide-D Visibility Enhancer (VE)	Dyna View	Dyna View	Dyna View	Dyna View	Dyna View	Dyna View	No	No	No	View-DR VE	No	View-DR VE			
Noise reduction	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes (XDNR)	Yes	Yes (XDNR)			
Card slot(s)	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	No	No	No	No	No	No			
Wireless capability	No	No	No	No	No	No	No	No	No	No	No	No			
Composite video output	No	No	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes			
DEPA (Intelligence)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes (DEPA Advanced)	Yes	Yes (DEPA Advanced)			
"Rapid Dome" or "PTZ"	PTZ	Rapid Dome	PTZ	Rapid Dome	PTZ	Rapid Dome	No	No	No	No	No	No			
Pan angle	340 degrees	360 degrees endless	340 degrees	360 degrees endless	340 degrees	360 degrees endless	No	No	No	No	No	No			
Tilt angle	-15° to +90°	-105° to +105° (210° tilt)	-15° to +90°	-105° to +105° (210° tilt)	-15° to +90°	-105° to +105° (210° tilt)	No	No	No	No	No	No			
"Quick Release" mechanism	No	No	No	No	No	No	No	No	No	No	No	No			
Power requirement	AC 24 V, HPoE (Class 4)	AC 24 V, HPoE (Class 4)	AC 24 V, HPoE (Class 4)	AC 24 V, HPoE (Class 4)	AC 24 V, HPoE (Class 4)	AC 24 V, HPoE (Class 4)	PoE (Class 1)	PoE (Class 1)	PoE (Class 2)	AC 24V, DC 12V, PoE (Class 0)	PoE (Class 2)	AC 24V, DC 12V, PoE (Class 0)			
Power consumption	25 W max.	25 W max.	25 W max.	25 W max.	25 W max.	25 W max.	2.4 W max.	2.4 W max.	6 W max.	10.2 W max.	6 W max.	10.2 W max.			
Dimensions	ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)	ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)	ø147.4 x 190.9mm (5 7/8 x 7 5/8 inches)	ø147.4 x 190.9mm 5 7/8 x 7 5/8 inches)	ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)	ø147.4 x 190.9 mm (5 7/8 x 7 5/8 inches)	ø106 x 50.5 mm (4 1/4 x 2 1/8 inches)	ø106 x 50.5 mm (4 1/4 x 2 1/8 inches)	ø140 x 118 mm (5 5/8 x 4 3/4 inches)	ø140 x 118 mm (5 5/8 x 4 3/4 inches)	ø140 x 118 mm (5 5/8 x 4 3/4 inches)	ø140 x 118 mm (5 5/8 x 4 3/4 inches)			

(*1) When the model name includes "/" (slash) such as "SNC-EP520/SNC-EP521" in this table, please read as "SNC-EP520" (NTSC model) and "SNC-EP521" (PAL model).

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

(*3) When the Maximum resolution includes "/" such as "704 x 480/704 x 576" in this table, please read as "704 x 480" (NTSC) and "704 x 576" (PAL).

(*4) When the frame rate includes "/" such as "30/25 fps" in this table, please read as "30 fps" (NTSC) and "25 fps" (PAL). In the same manner, "704 x 480/704 x 576" means "704 x 480" (NTSC) and "704 x 576" (PAL).

(*5) 1/60sec is for NTSC model and 1/50sec is for PAL model.

Category				IF	IP Mini Dome Cameras (Vandal Resistant, IK10)							
Sony Network Cameras	Onvir HD			Convir Convir Convir Convir Convir Convir Convir Convir Convir Convir Convir Convir Convir Convir Convir		CERA Onvir Marchi Exmor	Onvif Exmor HD	Onvir KauDR Exmor		Onvif VacDR Exmor		
Model name	SNC-DH110T	SNC-DH210T	SNC-DH120T	SNC-DH140T	SNC-DH220T	SNC-DH240T	SNC-DH160	SNC-DH180	SNC-DH260	SNC-DH280		
Generation / Series	G5 / X Series	G5 / X Series	G5 / E Series	G5 / V Series	G5 / E Series	G5 / V Series	G5 / E Series	G5 / V Series	G5 / E Series	G5 / V Series		
Video compression format	JPEG/MPEG-4/H.264											
Codec streaming capability				Dual streaming (Any co	mbination with JPEG/MPEG-4	/H.264, including multiple str	eams of the same format)					
HD/Megapixel (*1)	HD	Full HD resolution 1080	HD	HD	Full HD	Full HD	HD	HD	Full HD	Full HD		
Maximum resolution (*2)	1280 x 960 (1.3 Mega)	2048 x 1536 (3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)		
Ingress protection	No	No	No	No	No	No	IP66	IP66	IP66	IP66		
Vandal resistant	IK10	IK10	IK10	IK10	IK10	IK10	IK10	IK10	IK10	IK10		
IR illuminators	No	No	No	No	No	No	IR	IR	IR	IR		
Horizontal viewing angle	79°	86°	85.4° to 31.2°	85.4° to 31.2°	88.5° to 32.3°	88.5° to 32.3°	85.4° to 31.2°	85.4° to 31.2°	88.5° to 32.3°	88.5° to 32.3°		
Optical zoom ratio	Fixed focal lens	Fixed focal lens	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom		
Focal length	f=2.34	f=3.3	f=3.1 to 8.9mm	f=3.1 to 8.9 mm	f=3.1 to 8.9 mm	f=3.1 to 8.9 mm	f=3.1 to 8.9mm	f=3.1 to 8.9mm	f=3.1 to 8.9 mm	f=3.1 to 8.9 mm		
Imager	1/3.8-type progressive scan CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scan Exmor CMOS sensor	1/2.8-type progressive scar Exmor CMOS sensor		
Minimum illumination	5.5 lx (AGC 30 dB/50 IRE [IP])	2.3 lx (AGC 38 dB/50 IRE [IP])	Colour: 0.5 lx, B/W: 0.3 lx (F1 2/AGC 42 dB/50 IRE [IP])	Colour: 0.2 lx, B/W: 0.1 lx (F1.2 View-DR OFF/ XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])	Colour: 0.7 lx B/W: 0.45 lx (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.4 lx, B/W: 0.25 lx (F1.2 View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])	Colour: 0.5 lx, B/W: 0 lx (IR ON) (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.2 lx, B/W: 0 lx (IR ON) (F1.2 View-DR OFF/XDNR ON-Middle/ VE OFF/AGC High/ 50 IRE [IP])	Colour: 0.7 lx, B/W: 0 lx (IR ON) (F1.2/ AGC 42dB/ 50IRE [IP])	Colour: 0.4 lx, B/W: 0 lx (IR ON) (F1.2/View DR OFF/XDNR ON-Middle/V OFF/AGC High/50 IRE [IP])		
Maximum frame rate (*3)	30 fps H.264/MPEG-4/JPEG at 1280 x 960/ 1280 x 720	30 fps H.264/MPEG-4/ JPEGat 1280 x 720; 15 fps H.264/MPEG-4/JPEG at 1920 x 1080	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 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080	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 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 20 fps MPEG-4 at 1920 x 1080; 16 fps JPEG at 1920 x 1080		
Day/Night	Electrical D/N	Electrical D/N	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night		
Wide-D Visibility Enhancer (VE)	No	No	No	View-DR VE	No	View-DR VE	No	View-DR VE	No	View-DR VE		
Noise reduction	Yes	Yes	Yes	Yes (XDNR)	Yes	Yes (XDNR)	Yes	Yes (XDNR)	Yes	Yes (XDNR)		
Card slot(s)	No	No	No	No	No	No	No	No	No	No		
Wireless capability	No	No	No	No	No	No	No	No	No	No		
Composite video output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes		
DEPA (Intelligence)	Yes	Yes	Yes	Yes (DEPA Advanced)	Yes	Yes (DEPA Advanced)	Yes	Yes (DEPA Advanced)	Yes	Yes (DEPA Advanced)		
Power requirement	PoE (Class 1)	PoE (Class 1)	PoE (Class 2)	AC 24V, DC 12V, PoE (Class 0)	PoE (Class 2)	AC 24 V, DC 12 V, PoE (Class 0)	PoE (Class 0)	AC 24V, DC 12V, PoE(Class 0)	PoE (Class 0)	AC 24V, DC 12V, PoE (Class 0)		
Power consumption	2.4 W max.	2.4 W max.	6 W max.	8 W max.	6 W max.	10.2 W max.	12.9 W max.	28 W max.	12.9 W max.	29 W max.		
Dimensions	ø106 x 56.5 mm (4 1/4 x 2 1/4 inches)	ø106 x 56.5 mm (4 1/4 x 2 1/4 inches)	ø140 x 119 mm (5 5/8 x 4 3/4 inches)	ø140 x 119 mm (5 5/8 x 4 3/4 inches)	ø140 x 119 mm (5 5/8 x 4 3/4 inches)	ø140 x 119 mm (5 5/8 x 4 3/4 inches)	ø166 x 119 mm (6 5/8 x 4 3/4 inches)	ø166 x 119 mm (6 5/8 x 4 3/4 inches)	ø166 x 119 mm (6 3/4 x 4 3/4 inches)	ø166 x 119 mm (6 3/4 x 4 3/4 inches)		

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

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Glossary

IP66

The "IP" of IP66 stands for Ingress Protection, and its two-digit number shows the durability rating of equipment for outdoor use. The first digit of IP66 relates to the ingress protection against dust, and "6" means "dust tight". The second digit of IP66 relates to the ingress protection against water, and "6" means protected against "heavy jet sprays," such as conditions that can be encountered in hurricanes. The IK rating system classifies the level of protection provided by electrical appliances against external impacts from the outside.

IK10

An IK10-rated camera can withstand the impact of 20 Joules, meaning the camera will withstand the impact of a 5 kg weight dropped on it from a height of 40 cm.

Day/Night

A day/night camera has two modes of operation: a day mode and a night mode. The camera switches from day mode (Colour) to night mode (B/W) by replacing its infrared-cut filter with a clear filter. In night mode, the camera becomes sensitive to near-IR light and is capable of reproducing images even when the scene is not visible to the naked eye.

Electrical D/N

Electrical D/N is a technology to make the image more visible in low-light conditions by removing the chroma signal to produce a B/W image.

State-of-the-art technologies to expand the video dynamic range of the camera to improve the visibility of images even in extremely high-contrast environments.

Wide-D

Wide-D is a powerful feature to compensate for scenes with extremely poor contrast.

View-DR

View-DR is Sony's latest technology to produce images with an extremely wide dynamic range. View-DR is a combination of Sony's full-capture Wide-D technology. the high-speed "Exmor" CMOS sensor, and Visibility Enhancer (VE). The full-capture Wide-D technology used in View-DR uses an electronic shutter to capture multiple images, to reproduce each frame. One image is taken using a 'standard' exposure time and either one or three images are taken using very short exposure times depending on the camera type. With the newly developed View-DR algorithm, all of the electrons converted from the captured light is fully used by the imager, which is auite different from DynaView and some other Wide-D technologies in the industry that discard approximately ½ of the electrons. As a result, View-DR nearly doubles the sensitivity compared to conventional Wide-D technologies. To capture multiple HD resolution images at a very high speed, the "Exmor" CMOS sensor was adopted because of its high-speed readout characteristics. During the process of combining multiple images, the Visibility Enhancer (VE) is employed to provide a high level of chrominance and luminance. With View-DR, the monitored images become very visible - sometimes even more than when viewed with our naked eves.

Visibility Enhancer (VE)

VE is one of Sony's new technologies that optimizes contrast and makes a scene more visible. It is ideal for scenes where objects are hard to recognize due to severe backlight or shadows. VE optimizes the brightness and colour reproduction of an image dynamically on a pixel-by-pixel basis while continuously adapting to the scene. Technically, VE stretches the contrast in both the backlit portions and the shadows within the given dynamic range, which is different from Wide-D. VE also contributes to the high sensitivity of the camera. By combining VE with XDNR, the camera can reproduce clear and bright images in very low-light conditions, while keeping noise at a minimal level.

XDNR (eXcellent Dynamic Noise Reduction)

XDNR is Sony's latest technology for noise reduction in IP security cameras. XDNR utilizes 2D and 3D noise reduction methods adaptively to scenes. Under low-light conditions, XDNR provides clear images for both moving objects and still portions of the image, using 2DNR and 3DNR, respectively. This method provides clear images while minimizing motion blur which is a challenge in any outdoor surveillance monitoring applications, such as in parking lots.

DEPA

View-<mark>DR</mark>



With a Sony DEPA system, DEPA-enabled cameras send not only video images but also related metadata, including object data (size and position) to the DEPA-enabled recorder. Since part of the image processing is done on the camera side, the load to the recorder can be reduced enabling camera expansion. Conventional video analytic systems, on the other hand, process images solely on the recorder side often causing CPU overload.

DEPA Advanced

DEPA Advanced is an enhanced DEPA technology. Unlike DEPA, a camera incorporating DEPA Advanced completes the entire DEPA analysis such as intrusion detection with a virtual borderline on the camera side, and sends only an alarm to the recorder. Enhancements also include a tamper alarm, shadow cancellation, a beam intrusion detector, and audio analysis. Since the analytic processing is completed in the camera, end users can benefit from DEPA Advanced because it can be easily integrated with a variety of recorders and/or video management solutions.

ONVIF

Οηνιγ

ONVIF defines a common protocol for the exchange of information between different network video devices regardless of manufacturer, and achieves greater interoperability in multi-vendor network video systems.

PoE (Power-over-Ethernet, IEEE 802.3af)

PoE enables networked devices to receive power up to 13.95W from PoE-enabled equipment through the same Ethernet cable that transports data. It provides substantial savings in installation costs and can simplify the installation process.

hPoE (High PoE, IEEE 802.3at)

hPoE enables networked devices to receive power up to 25W from hPoE-enabled equipment through the same Ethernet cable that transports data. hPoE is useful especially for PTZ/Rapid Dome cameras that require motor control.

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