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Video Security IP Line-up 2012

VERSION 1

**IPELA
ENGINE**

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Network HD Cameras

Model name	X Series						E Series									
	SNC-CH110	SNC-DH110	SNC-DH110T	SNC-CH210	SNC-DH210	SNC-DH210T	SNC-CH120	SNC-CH160	SNC-DH120	SNC-DH120T	SNC-DH160	SNC-CH220	SNC-CH260	SNC-DH220	SNC-DH220T	SNC-DH260
Video compression format	JPEG/MPEG-4/H.264															
Codec streaming capability	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format) Note: Only single codec stream is available when IMD is used.															
HD/Megapixel*1	HD	HD	HD	Full HD 1080	Full HD 1080	Full HD 1080	HD	HD	HD	HD	HD	Full HD 1080	Full HD 1080	Full HD 1080	Full HD 1080	Full HD 1080
Maximum resolution	1280 x 960 (1.3 Mega)	1280 x 960 (1.3 Mega)	1280 x 960 (1.3 Mega)	2048 x 1536 (3 Mega)	2048 x 1536 (3 Mega)	2048 x 1536 (3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)
Ingress protection	No	No	No	No	No	No	No	IP66	No	No	IP66	No	IP66	No	No	IP66
Audio Description	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Vandal resistant	No	No	IK10	No	No	IK10	No	No	No	IK10	IK10	No	No	No	IK10	IK10
IR illuminators	No	No	No	No	No	No	No	IR	No	No	IR	No	IR	No	No	IR
Horizontal viewing angle	80.7°	80.7°	79°	88°	88°	86°	96.5° to 33.9°	85.4° to 31.2°	85.4° to 31.2°	85.4° to 31.2°	85.4° to 31.2°	85.4° to 31.2°	101.2° to 47.0°	88.5° to 32.3°	88.5° to 32.3°	88.5° to 32.3°
Optical zoom ratio	Fixed focal lens	Fixed focal lens	Fixed focal lens	Fixed focal lens	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	2.1x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom
Focal length	f=2.34	f=2.34	f=2.34	f=3.3	f=3.3	f=3.3	f=2.8 to 8 mm	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 8.9 mm	f=3.1 to 8.9 mm	f=2.8 to 6 mm	f=3.1 to 8.9 mm	f=3.1 to 8.9 mm	f=3.1 to 8.9 mm
Lens mount	Built-in	Fixed	Fixed	Built-in	Fixed	Fixed	CS mount	Built-in	Vari-focal lens	Vari-focal lens	Vari-focal lens	CS mount	Built-in	Built-in	Vari-focal lens	Vari-focal lens
Imager	1/3.8-type progressive scan CMOS sensor	1/3.8-type progressive scan CMOS sensor	1/3.8-type progressive scan CMOS sensor	1/2.8-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	1/3-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	1/2.8-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])	5.0 lx (AGC 30 dB/ 50 IRE [IP])	5.5 lx (AGC 30 dB/ 50 IRE [IP])	2.0 lx (AGC 38 dB/ 50 IRE [IP])	2.0 lx (AGC 38 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: 0.5 lx, B/W: 0 lx (IR ON) (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.5 lx, B/W: 0.3 lx (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.5 lx, B/W: 0.3 lx (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.5 lx, B/W: 0 lx (IR ON) (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.7 lx, B/W: 0.45 lx (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.7 lx, B/W: 0 lx (IR ON) (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.7 lx, B/W: 0.45 lx (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.7 lx, B/W: 0.45 lx (F1.2/AGC 42 dB/50 IRE [IP])	Colour: 0.7 lx, B/W: 0 lx (IR ON) (F1.2/AGC 42 dB/50 IRE [IP])
Maximum frame rate	30 fps H.264/ MPEG-4/JPEG at 1280 x 960/ 1280 x 720	30 fps H.264/ MPEG-4/JPEG at 1280 x 960/ 1280 x 720	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; 15 fps H.264/ MPEG-4/JPEG at 1920 x 1080	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/ 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 at 1920 x 1080; 25 fps MPEG-4 at 1920 x 1080; 15 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 25 fps MPEG-4 at 1920 x 1080; 15 fps JPEG at 1920 x 1080 (Tentative)	30 fps H.264 at 1920 x 1080; 25 fps MPEG-4 at 1920 x 1080; 15 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 25 fps MPEG-4 at 1920 x 1080; 15 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 25 fps MPEG-4 at 1920 x 1080; 15 fps JPEG at 1920 x 1080 (Tentative)
Day/Night	Electrical D/N	Electrical D/N	Electrical D/N	Electrical D/N	Electrical D/N	Electrical D/N	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	No	No	No	No	No	No	No	No	No	No	No	No
Noise reduction	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Card slot(s)	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Wireless capability	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
Composite video output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEPA (Intelligence)																
ONVIF																
"Rapid Dome" or "PTZ"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Pan angle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tilt angle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"Quick Release" mechanism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Power requirement	PoE (Class 1)	PoE (Class 1)	PoE (Class 1)	PoE (Class 1)	PoE (Class 1)	PoE (Class 1)	PoE (Class 2)	PoE (Class 0)	PoE (Class 2)	PoE (Class 2)	PoE (Class 0)	PoE (Class 2)	PoE (Class 0)	PoE (Class 2)	PoE (Class 2)	PoE (Class 0)
Power consumption	2.4 W max.	2.4 W max.	2.4 W max.	2.4 W max.	2.4 W max.	2.4 W max.	5 W max.	12.9 W max.	6 W max.	6 W max.	12.9 W max.	5 W max.	12.9 W max.	6 W max.	6 W max.	12.9 W max.
Dimensions	ø44 x 93 mm (1 3/4 x 3 3/4 inches)	ø106 x 50.5 mm (4 1/4 x 2 1/8 inches)	ø106 x 56.5 mm (4 1/4 x 2 1/4 inches)	ø44 x 93 mm (1 3/4 x 3 3/4 inches)	ø106 x 50.5 mm (4 1/4 x 2 1/8 inches)	ø106 x 56.5 mm (4 1/4 x 2 1/4 inches)	72 x 63 x 197 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)	ø140 x 118 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)	72 x 63 x 197.3 mm (2 7/8 x 2 1/2 x 7 3/4 inches)	ø93 x 186 mm (3 3/4 x 7 3/8 inches)	ø140 x 118 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 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.

Network HD Cameras

Model name	E Series			V Series										Z-Series – IP Over Coax					
	SNC-EM520	SNC-EM521	SNC-EB520	SNC-CH140	SNC-CH180	SNC-DH140	SNC-DH140T	SNC-DH180	SNC-CH240	SNC-CH280	SNC-DH240	SNC-DH240T	SNC-DH280	SNC-ZB550	SNC-ZM551	SNC-ZM550	SNC-ZR550	SNC-ZP550	
Video compression format	JPEG/MPEG-4/H.264																		
Codec streaming capability	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)																		
HD/Megapixel*1	SD	SD	SD	HD	HD	HD	HD	HD	Full HD 1080	Full HD 1080	Full HD 1080	Full HD 1080	Full HD 1080	HD	HD	HD	HD	HD	
Maximum resolution	800 x 600	800 x 600	800 x 600	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)	1920 x 1440 (3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 1024 (1.3 Mega)	1280 x 720 (1 Mega)	1280 x 720 (1 Mega)	
Ingress protection	No	No	No	No	IP66	No	No	IP66	No	IP66	No	No	IP66	No	No	No	No	No	No
Audio Description	-	-	-	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	-	-	-	-	-	-
Vandal resistant	No	IK10	No	No	No	No	IK10	IK10	No	No	No	IK10	IK10	No	IK10	No	No	No	No
IR illuminators	No	No	No	No	IR	No	No	IR	No	IR	No	No	IR	No	No	No	No	No	No
Horizontal viewing angle	85.4° to 31.2°	85.4° to 31.2°	89.2° to 34.6°	96.5° to 33.9°	85.4° to 31.2°	85.4° to 31.2°	85.4° to 31.2°	85.4° to 31.2°	101.2° to 47°	85.4° to 31.2°	88.5° to 32.3°	88.5° to 32.3°	88.5° to 32.3°	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°	
Optical zoom ratio	2.9x optical zoom	2.9x optical zoom	2.6x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.9x optical zoom	2.1x 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	28x optical zoom	28x optical zoom	
Focal length	f=3.1 to 8.9 mm	f=3.1 to 8.9 mm	f=3 to 8 mm	f=2.8 to 8 mm	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 8.9 mm	f=2.8 to 6 mm	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 8.9 mm	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 mount	Built-in	Built-in	CS mount	CS mount	Built-in	Vari-focal lens	Vari-focal lens	Vari-focal lens	CS mount	Built-in	Vari-focal lens	Vari-focal lens	Vari-focal lens	CS mount lens	Built-in variable focal lens	Built-in variable focal lens	Auto-focus zoom lens	Auto-focus zoom lens	
Imager	1/3-type "Exmor" CMOS sensor	1/3-type "Exmor" CMOS sensor	1/3-type "Exmor" CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-type progressive scan Exmor CMOS sensor	1/3-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 Exmor CMOS sensor	1/2.8-type Exmor CMOS sensor	1/2.8-type Exmor CMOS sensor	1/2.8-type Exmor CMOS sensor	1/2.8-type Exmor CMOS sensor	1/3 type progressive scan Exmor CMOS sensor	1/3 type progressive scan Exmor CMOS sensor	1/3 type progressive scan Exmor CMOS sensor	1/4 type Exmor CMOS sensor	1/4 type Exmor CMOS sensor	
Minimum illumination	Color: 0.50 lx, B/W: 0.30 lx (F1.2, shutter 1/30 sec., AGC 42dB, 50IRE by IP)	Color: 0.50 lx, B/W: 0.30 lx (F1.2, shutter 1/30 sec., AGC 42dB, 50IRE by IP)	Color: 0.47 lx, B/W: 0.27 lx (F1.0, shutter 1/30 sec., AGC 42dB, 50IRE by 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: 0.22 lx, B/W: 0 lx (IR ON) (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE (IP))	Colour: 0.2 lx, B/W: 0.1 lx (F1.2 View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/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: 0.2 lx, B/W: 0 lx (IR ON) (F1.2 View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE (IP))	Colour: 0.55 lx, B/W: 0.3 lx (F1.3/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE (IP))	Colour: 0.4 lx, B/W: 0.3 lx (F1.2 View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE (IP))	Colour: 0.55 lx, B/W: 0.3 lx (F1.2 View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE (IP))	Colour: 0.55 lx, B/W: 0.3 lx (F1.2 View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE (IP))	Colour: 0.55 lx, B/W: 0.3 lx (F1.2 View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE (IP))	Colour: 0.4 lx, B/W: 0.3 lx (F1.2 View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE (IP))	Colour: 0.50 lx, B/W: 0.30 lx (F1.2/AGC 42dB/50IRE (IP))	Colour: 0.50 lx, B/W: 0.30 lx (F1.2/AGC 42dB/50IRE (IP))	Colour: 0.50 lx, B/W: 0.30 lx (F1.2/AGC 42dB/50IRE (IP))	Colour: 0.7 lx (F1.35/AGC ON/shutter 1/30 s/30 IRE (IP))	Colour: 0.7 lx (F1.35/AGC ON/shutter 1/30 s/30 IRE (IP))
Maximum frame rate	30 fps (H.264, MPEG-4, JPEG)	30 fps (H.264, MPEG-4, JPEG)	30 fps (H.264, MPEG-4, JPEG)	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/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 at 1920 x 1080; 25 fps MPEG-4 at 1920 x 1080; 15 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 25 fps MPEG-4 at 1920 x 1080; 15 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 25 fps MPEG-4 at 1920 x 1080; 15 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 25 fps MPEG-4 at 1920 x 1080; 15 fps JPEG at 1920 x 1080	30 fps H.264 at 1920 x 1080; 25 fps MPEG-4 at 1920 x 1080; 15 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/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	Day/Night	Day/Night	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	View-DR VE	View-DR VE	View-DR VE	View-DR VE	View-DR VE	View-DR VE	View-DR VE	View-DR VE	View-DR VE	View-DR VE	No	No	No	DynaView	DynaView	
Noise reduction	Yes	Yes	Yes	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	Yes	Yes	Yes	Yes	Yes	
Card slot(s)	No	No	No	CF card x1	CF card x1	No	No	No	CF card x1	CF card x1	No	No	No	No	No	No	No	SD card x 1	SD card x 1
Wireless capability	No	No	No	Yes (option)	Yes (option)	No	No	No	Yes (option)	Yes (option)	No	No	No	No	No	No	No	No	No
Composite video output	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No	No	No	No	No
DEPA (Intelligence)																			
ONVIF																			
"Rapid Dome" or "PTZ"	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	Rapid Dome	PTZ
Pan angle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	360° endless rotation	340°
Tilt angle	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-105° to +105° (210° tilt)	-15° to +90°
"Quick Release" mechanism	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Power requirement	PoE (IEEE802.3af compliant)	PoE (IEEE802.3af compliant)	PoE (IEEE802.3af compliant)	AC 24, DC 12 V, PoE (Class 0)	AC 24, DC 12 V, PoE (Class 0)	AC 24, DC 12 V, PoE (Class 0)	AC 24, DC 12 V, PoE (Class 0)	AC 24, DC 12 V, PoE (Class 0)	AC 24, DC 12 V, PoE (Class 0)	AC 24, DC 12 V, PoE (Class 0)	AC 24, DC 12 V, PoE (Class 0)	AC 24, DC 12 V, PoE (Class 0)	AC 24, DC 12 V, PoE (Class 0)	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.	6 W max.	5 W max.	9 W max.	30 W max.	10.2 W max.	8 W max.	28 W max.	11.2 W max.	33 W max.	10.2 W max.	10.2 W max.	29 W max.	6 W max. (TBD)	7 W max. (TBD)	7 W max. (TBD)	TBD	TBD	
Dimensions	ø140 x 118 mm (5 5/8 x 4 3/4 inches)	ø140 x 119 mm (5 5/8 x 4 3/4 inches)	72 x 63 x 145 mm (2 7/8 x 2 1/2 x 5 3/4 inches)	72 x 63 x 197 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)	ø140 x 118 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)	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)	ø140 x 118 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 3/4 x 4 3/4 inches)	72 x 63 x 197 mm (2 7/8 x 2 1/2 x 7 7/8 inches)	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 at more than 30/25 fps. *2 When selecting the IP and Analog-over-Coax mode, the power supply supports only AC 24 V.

Network HD Cameras

Model name	Rapid Dome and PTZ cameras							
	SNC-EP521	SNC-EP550	SNC-EP580	SNC-ER521	SNC-ER550	SNC-ER580	SNC-RH124	SNC-RH164
Video compression format	JPEG/MPEG-4/H.264							
Codec streaming capability	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)							
HD/Megapixel*1	SD	HD		SD	HD		HD	HD
Maximum resolution	720 x 480 / 720 x 576	1280 x 720 	1920 x 1080 	720 x 480 / 720 x 576	1280 x 720 	1920 x 1080 	1280 x 720 	1280 x 720 
Ingress protection	No	No	No	No	No	No	No	IP66
Audio Description	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726	G.711/G.726
Vandal resistant	No	No	No	No	No	No	No	IK10
IR illuminators	No	No	No	No	No	No	No	No
Horizontal viewing angle	57.8° to 1.7°	55.9° to 2.1°	55.8° to 2.9°	57.8° to 1.7°	55.9° to 2.1°	55.4° to 2.9°	50° to 5.4°	50° to 5.4°
Optical zoom ratio	36x optical zoom	28x optical zoom	20x optical zoom	36x optical zoom	28x optical zoom	20x optical zoom	10x optical zoom	10x optical zoom
Focal length	f=3.4 to 122.4 mm	f=3.5 to 98 mm	f=4.7 to 94 mm	f=3.4 to 122.4 mm	f=3.5 to 98 mm	f=4.7 to 94 mm	f=5.1 to 51 mm	f=5.1 to 51 mm
Lens mount	-	-	-	-	-	-	-	-
Imager	1/4-type EXview HAD CCD	1/4-type Exmor CMOS	1/2.8-type Exmor CMOS	1/4-type EXview HAD CCD	1/4-type Exmor CMOS	1/2.8-type Exmor CMOS	1/3-type HD CMOS sensor	1/3-type HD CMOS sensor
Minimum illumination	Color: 1.4lx (F1.6, shutter 1/30sec, AGC ON, 50IRE (IP)) B/W: 0.15lx (F1.6, shutter 1/30sec, AGC ON, Night Mode, 50IRE (IP))	Color: 1.0lx (F1.35, shutter 1/30sec, AGC ON, 50IRE (IP)) B/W: 0.1lx (F1.35, shutter 1/30sec, AGC ON, Night Mode, 50IRE (IP))	Color: 1.7lx (F1.6, shutter 1/30sec, AGC ON, 50IRE (IP)) B/W: 0.3lx (F1.6, shutter 1/30sec, AGC ON, Night Mode, 50IRE (IP))	Color: 0.9lx (F1.6, shutter 1/30sec, AGC ON, 30IRE (IP))	Color: 0.7lx (F1.35, shutter 1/30sec, AGC ON, 30IRE (IP)) B/W: 0.07lx (F1.35, shutter 1/30sec, AGC ON, Night Mode, 30IRE (IP))	Color: 1.2lx (F1.6, shutter 1/30sec, AGC ON, 30IRE (IP)) B/W: 0.18lx (F1.6, shutter 1/30sec, AGC ON, Night Mode, 30IRE (IP))	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	30/25 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	30/25 fps H.264/MPEG-4/JPEG	30/25 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 1280 x 720	30 fps H.264 at 1280 x 720
Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night	Day/Night
Wide-D Visibility enhancer (VE)	DynaView	DynaView	DynaView	DynaView	DynaView	DynaView	VE	VE
Noise reduction	Yes	Yes	Yes	Yes	Yes	Yes	XDNR	XDNR
Card slot(s)	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	SD card x1	CF card x1	CF card x1
Wireless capability	No	No	No	No	No	No	Yes (option)	Yes (option)
Composite video output	No	No	No	No	No	No	Yes	Yes
DEPA (Intelligence)								
ONVIF								
"Rapid Dome" or "PTZ"								
Pan angle	340°	340°	340°	360° endless	360° endless	360° endless	360° endless	360° endless
Tilt angle	-15° to +90°	-15° to +90°	-15° 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)
"Quick Release" mechanism	No	No	No	No	No	No	Quick Release	Quick Release
Power requirement	AC 24, HPOE (Class 4)	AC 24, HPOE (Class 4)	AC 24, HPOE (Class 4)	AC 24, HPOE (Class 4)	AC 24, HPOE (Class 4)	AC 24, HPOE (Class 4)	AC 24 V, DC 12 V, HPOE (Class 4)	AC 24 V
Power consumption	25 W max.	25 W max.	25 W max.	25 W max.	25 W max.	25 W max.	25 W max.	80 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 190.9 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 190.9 mm (5 7/8 x 7 5/8 inches)	ø147.4 x 190.9 mm (5 7/8 x 7 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)

Network Surveillance Server




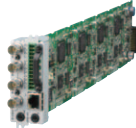






NSR-500	
Video/Recording	
Number of cameras supported	Max. 16 (Max. 24ch w/NSBK-CL05)
Number of analogue cameras	No
Video compression (IP camera)	H.264/MPEG-4/JPEG
Video compression (Analogue camera)	No
Recording rate	480fps (at H.264, Full-HD, 4Mbps)
Hard disk drives (Physical capacity)	Up to 12TB (2TB x 6)
Hard disk drives (RAID level)	RAID 0, 1 (1+0), 5, 5+hot spare
Optical disc drive	No
Expansion storage	iSCSI storage (max. 16TB)
Video Output	
Monitor OUT 1	Analogue RGB (D-sub 15-pin) x 1*3
Monitor OUT 2	No
Audio Output	
Audio OUT	RCA-pin L/R x1 Stereo Pair
Sensor Input/Alarm Output	
Sensor input	Terminal connector x 8
Alarm output	Terminal connector x 8
Other Interfaces	
Ethernet	1000BASE-T/100BASE-TX/10BASE-T x 2
USB	USB2.0 x 2 (Front), USB2.0 x 2 (Rear)
Serial interface (for UPS)	RS-232C : D-sub 9-pin x 1
Serial interface (for analogue camera control)	RS-232C : D-sub 9pin x 1, RS-422/485 x 1*2
General	
Dimensions (W x H x D)	440 x 88 x 400mm (17 3/8 x 3 1/2 x 15 3/4 inch) *excluding protrusions
Mass	Approx. 9.4Kg (20 lb 12 oz) (without HDD model)
Power requirements	100V to 127V AC/200V to 240V (50/60Hz)
Power consumption	Max. 250W (100-240V 3.5-1.5A)
Operating temperature	5 to 40°C (41 to 104°F)
Operation humidity	20 to 80%
Optional accessories	RM-NS1000

The NSR-1000 Series and the NSR-500 comply with UL60950-1

Hybrid receiver

SNCA-ZX104	
General	
Number of hybrid cameras supported	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
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)
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

*1 Definition of HD: More than 720p with H.264 streaming capability at more than 30/25 fps. *2 VISCA and Pelco-D are supported. *3 The monitoring performance depends on the number of camera registered and recorded. So display out is used for making settings.

	Full Function				Basic Function	
	1CH Box		4CH Box	4CH Blade	4CH Box	4CH Blade
	SNT-EX101	SNT-EX101E	SNT-EX104	SNT-EX154	SNT-EP104	SNT-EP154
						
Codec image size (HxV)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)	D1 (NTSC: 720 x 480, PAL: 720 x 576), VGA (640 x 480), CIF (384 x 288), QVGA (320 x 240)
Video compression format	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG	H.264, MPEG-4, JPEG
Codec streaming capability	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)	Dual streaming (Any combination with JPEG/MPEG-4/H.264, including multiple streams of the same format)
Maximum frame rate	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)	H.264/MPEG-4/JPEG: 30fps (NTSC: 720 x 480, PAL: 720 x 576)
PTZ control	Yes	Yes	Yes	Yes	No	No
Visibility enhancer	Yes	Yes	Yes	Yes	Yes	Yes
Noise reduction	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR
Coaxitron® control	Yes	Yes	Yes	Yes	No	No
Serial interface	RS-422/RS-485	RS-422/RS-485	RS-485	RS-485	-	-
USB memory slots	x 1*1	x 1*1	x 4*1	-	-	-
Sensor input	x 2	x 2	x 4	x 4	-	-
Alarm output	x 2	x 2	x 4	x 4	-	-
Audio interface (IN/OUT)	IN x 1, OUT x 1	IN x 1, OUT x 1	IN x 4, OUT x 4	IN x 1, OUT x 1	-	-
Audio support	Yes - Full Duplex	Yes - Full Duplex	Yes - Full Duplex	Yes - Full Duplex	No	No
DEPA advanced (Intelligence)					No	No
Dimensions (W x H x D)	73 x 34 x 155 mm (2 7/8 x 1 3/8 x 6 1/8 inches)	73 x 34 x 155 mm (2 7/8 x 1 3/8 x 6 1/8 inches)	210 x 44 x 250 mm (8 3/8 x 1 3/4 x 9 7/8 inches)	78 x 34 x 382 mm (3 1/8 x 1 3/8 x 15 1/8 inches)	210 x 44 x 250 mm (8 3/8 x 1 3/4 x 9 7/8 inches)	78 x 34 x 382 mm (3 1/8 x 1 3/8 x 15 1/8 inches)
Power requirements	AC 24V in, with loop through output Input: AC 24V, +/- 20%	PoE (IEEE802.3af)	DC12 V	From Rack Station	DC12 V	From Rack Station

*1 USB slots are inside the chassis, not on the front or rear panels.

These products include software developed by the OpenSSL Project for use in the OpenSSL Toolkit. (<http://www.openssl.org/>)

RealShot Manager Advanced and RealShot Manager Lite



Intelligent Monitoring Software

	IMZ-NS101	IMZ-NS104	IMZ-NS109	IMZ-NS116	IMZ-NS132	RSM Lite (Free Software)
	RSM Advanced with 1 camera license	RSM Advanced with 4 camera licenses	RSM Advanced with 9 camera licenses	RSM Advanced with 16 camera licenses	RSM Advanced with 32 camera licenses	RSM Lite with 9 camera licenses
Specifications						
Video compression	H.264/MPEG-4/JPEG					
Audio compression	G.711/G.726					
Number of clients to be connected (Recommendation)*1	10					3
Number of cameras to be supported	1*2	4*2	9*2	16*2	32*2	9
Number of audio to be supported	1	4	9	16	32	9
System Requirements						
Operating system	Windows 7 Professional, Windows 7 Enterprise, Windows Vista® Business SP2 (32 bit), Windows Vista® Enterprise SP2 (32 bit), Windows® XP Professional SP3 (32 bit), Windows® Server 2003 Standard Edition SP2(32bit), Windows® Server 2008 Standard Edition SP2 (32 bit), Windows Server 2008 R2 Standard Note: Refer to software release notes for more latest information.					
CPU	Intel Core™ 2Duo 2.0-GHz or higher					
Main memory	1 GB or more (2 GB Recommended)					
HDD	2 GB spare capacity					
Video card	1024 x 768, 16/24 bit colour					
Network interface card (NIC)	100BASE-TX or higher					
Display (Resolution)	1024 x 768 or higher					
Optional accessories	RM-NS1000 (System Controller)					

*1 The figures in the table are recommended numbers of clients to assure high performance. It is technically possible to connect more clients to a server, but such increase may deteriorate the overall performance.

*2 It is possible to connect more than 32 cameras to a server by installing a corresponding number of licenses on the server, but such addition is not recommended to assure high performance. Please also note that display and recording performance basically depends on the server.

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