

SONY
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IP Video Security Quick Reference Guide 2011

VERSION 3



HIGH DEFINITION

www.pro.sony.eu/videosecurity

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)																
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	
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°	101.2° to 47.0°	88.5° to 32.3°	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=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	
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	Built-in Vari-focal lens	Built-in 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)	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	Day/Night
Wide-D Visibility enhancer (VE)	No	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	Yes
Card slot(s)	No	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	No
Composite video output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
DEPA (Intelligence)																	
ONVIF																	
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

	V Series										Rapid Dome and PTZ cameras							
Model name	SNC-CH140	SNC-CH180	SNC-DH140	SNC-DH140T	SNC-DH180	SNC-CH240	SNC-CH280	SNC-DH240	SNC-DH240T	SNC-DH280	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	HD	HD	HD	HD	HD	Full HD 1080	Full HD 1080	Full HD 1080	Full HD 1080	Full HD 1080	SD	HD	Full HD 1080	SD	HD	Full HD 1080	HD	HD
Maximum resolution	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)	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	IP66	No	No	IP66	No	IP66	No	No	IP66	No	No	No	No	No	No	No	No
Vandal resistant	No	No	No	IK10	IK10	No	No	No	IK10	IK10	No	No	No	No	No	No	No	IK10
IR illuminators	No	IR	No	No	IR	No	IR	No	IR	IR	No	No	No	No	No	No	No	No
Horizontal viewing angle	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°	57.8° to 1.7°	55.9° to 2.1°	55.4° 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	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	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=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=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	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	-	-	-	-	-	-	-	-
Imager	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.	1/3-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.	1/2.8-type Exmor CMOS sensor Exmor.	1/2.8-type Exmor CMOS sensor Exmor.	1/2.8-type Exmor CMOS sensor Exmor.	1/2.8-type Exmor CMOS sensor Exmor.	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 EXview HAD CCD	1/2.8-type Exmor CMOS	1/3-type HD CMOS sensor	1/3-type HD CMOS sensor
Minimum illumination	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 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 (F1.2/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 lx (IR ON) (F1.2/View-DR OFF/XDNR ON-Middle/VE OFF/AGC High/50 IRE [IP])	Colour: 1.4 lx, B/W: 0.15 lx (F1.6, shutter 1/60sec, AGC ON, 50 IRE [IP])	Colour: 2.0 lx (Tentative)	Colour: 1.7 lx, B/W: 0.07 lx (F1.6, shutter 1/60sec, AGC ON, 50 IRE [IP])	Colour: 1.4 lx, B/W: 0.15 lx (F1.6, shutter 1/60sec, AGC ON, 50 IRE [IP])	Colour: 1.4 lx, B/W: 0.15 lx (F1.6, shutter 1/60sec, AGC ON, 50 IRE [IP])	Colour: 1.7 lx, B/W: 0.07 lx (F1.6, shutter 1/60sec, AGC ON, 50 IRE [IP])	Colour: 1.9 lx, B/W: 0.17 lx (50 IRE, XDNR ON, VE OFF, AGC ON, Slow Shutter OFF)	Colour: 2.1 lx, B/W: 0.19 lx (50 IRE, XDNR ON, VE OFF, AGC ON, Slow Shutter OFF)
Maximum frame rate	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	30/25 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	30/25 fps H.264/ MPEG-4/JPEG	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	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)	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	DynaView VE	DynaView VE	DynaView VE	DynaView VE	DynaView VE	DynaView VE	VE	VE
Noise reduction	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	XDNR	Yes	Yes	Yes	Yes	Yes	Yes	XDNR	XDNR
Card slot(s)	CF card x1	CF card x1	No	No	No	CF card x1	CF card x1	No	No	No	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	Yes (option)	Yes (option)	No	No	No	Yes (option)	Yes (option)	No	No	No	No	No	No	No	No	No	Yes (option)	Yes (option)
Composite video output	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	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, 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, 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	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.	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	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)	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)

*SNC-EP521, SNC-EP550, SNC-EP580, SNC-ER521, SNC-ER550 and SNC-ER580 coming soon, please contact Sony for more details.

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

Surveillance Video Encoders

	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
Coaxifron® 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/>)

Connect Your Vision

IPELA™

Network Surveillance Servers

	NSR-1200	NSR-1100	NSR-1050H	NSR-500	NSR-S20/2T	NSR-S20 (Without HDD)	NSR-S10/1T	NSR-S10 (Without HDD)
								
Video/Recording								
Number of cameras supported	Max. 64 (IP/Analogue total)	Max. 32 (IP/Analogue total)	Max. 20 (IP/Analogue total)	Max. 16 (Max. 24ch w/NSBK-CLO5)	Max. 8		Max. 4	
Number of analogue cameras	Max. 16 with optional NSBK-A16 or NSBK-A16H		Max. 16	No	No		No	
Video compression (IP camera)	H.264/MPEG-4/JPEG			H.264/MPEG-4/JPEG	H.264/MPEG-4/JPEG		H.264/MPEG-4/JPEG	
Video compression (Analogue camera)	H.264 or MPEG-4 (with NSBK-A16H or NSBK-A16)		MPEG-4	No	No		No	
Recording rate	1,200fps (40 camera x 30fps at MPEG-4, VGA, 1Mbps)	960fps (32 camera x 30fps at MPEG-4, VGA, 1Mbps)	600fps (20 camera x 30fps at MPEG-4, VGA, 1Mbps)	480fps (at H.264, Full-HD, 4Mbps)	120fps (at H.264, Full-HD, 4Mbps)		60fps (at H.264, Full-HD, 4Mbps)	
Hard disk drives (Physical capacity)	4TB (1TB x4)	2TB (1TB x2)	1TB (1TB x1)	Up to 12TB (2TB x 6)	2TB	No HDD	1TB (1TB x1)	No HDD
Hard disk drives (RAID level)	RAID 5, 1+0, 0	RAID 0, 1	No	RAID 0, 1 (1+0), 5, 5+hot spare	No		No	
Optical disc drive	DVD/CD Drive x1			No	No		No	
Expansion storage	NSRE-S200, iSCSI storage			iSCSI storage (max. 16TB)	e-SATA storage (max. 4TB)		e-SATA storage (max. 4TB)	
Video Output								
Monitor OUT 1	HDMI (Type A) x1 and D-sub 15-pin x2 (Front and Rear)			Analogue RGB (D-sub 15-pin) x 1 ^{*3}	Analogue RGB (D-sub 15-pin) x 1		Analogue RGB (D-sub 15-pin) x 1	
Monitor OUT 2	HDMI (Type A) x1 or D-sub 15-pin x1 (Rear)			No	No		No	
Audio Output								
Audio OUT	RCA-pin L/R x1 Stereo Pair			RCA-pin L/R x1 Stereo Pair	Terminal connector x 1		Terminal connector x 1	
Sensor Input/Alarm Output								
Sensor input	Terminal connector x 8			Terminal connector x 8	Terminal connector x 4		Terminal connector x 4	
Alarm output	Terminal connector x 8			Terminal connector x 8	Terminal connector x 1		Terminal connector x 1	
Other Interfaces								
Ethernet	1000BASE-T/100BASE-TX/10BASE-T x4 ^{*1}			1000BASE-T/100BASE-TX/10BASE-T x 2	1000BASE-T/100BASE-TX/10BASE-T x 2		1000BASE-T/100BASE-TX/10BASE-T x 2	
USB	USB2.0 x3 (Front), USB2.0 x3 (Rear)			USB2.0 x 2 (Front), USB2.0 x 2 (Rear)	USB2.0 x 1 (Front), USB2.0 x 2 (Rear)		USB2.0 x 1 (Front), USB2.0 x 2 (Rear)	
Serial interface (for UPS)	RS-232C : D-sub 9-pin x1			RS-232C : D-sub 9-pin x 1	No		No	
Serial interface (for analogue camera control)	RS-232C : D-sub 9pin x1, RS-422/RS-485 x1 ^{*2}			RS-232C : D-sub 9pin x 1, RS-422/485 x 1 ^{*2}	No		No	
General								
Dimensions (W x H x D)	430 x 87 x 417 mm (17 x 3 1/2 x 16 1/2 inch) *excluding protrusions			440 x 88 x 400mm (17 3/8 x 3 1/2 x 15 3/4 inch) *excluding protrusions	245 x 53 x 160mm (9 3/4 x 2 1/8 x 6 3/8 inch) *excluding protrusions		245 x 53 x 160mm (9 3/4 x 2 1/8 x 6 3/8 inch) *excluding protrusions	
Mass	Approx. 13.5 kg (29 lb 12 oz)	Approx. 12 kg (26 lb 7 oz)	Approx. 11.5 kg (25 lb 6 oz)	Approx. 9.4Kg (20 lb 12 oz) (without HDD model)	Approx. 1.4 Kg (3 lb 1oz)	Approx. 0.8 Kg (1 lb 12oz)	Approx. 1.4 Kg (3 lb 1oz)	Approx. 0.8 Kg (1 lb 12oz)
Power requirements	100V to 127V AC/ 200V to 240V (50/60Hz)			100V to 127V AC/ 200V to 240V (50/60Hz)	DC 12V (AC adapter: 100V to 240V AC, 50/60Hz)		DC 12V (AC adapter: 100V to 240V AC, 50/60Hz)	
Power consumption	Approx. 265 W (typical) (Max. 350 W)	Approx. 185 W (typical) (Max. 350 W)	Approx. 175 W (typical) (Max. 350 W)	Max. 250W (100-240V 3.5-1.5A)	Approx. 36W		Approx. 36W	
Operating temperature	5 to 40°C (41 to 104°F)			5 to 40°C (41 to 104°F)	5 to 40°C (41 to 104°F)		5 to 40°C (41 to 104°F)	
Operation humidity	20 to 80%			20 to 80%	20% to 80%		20% to 80%	
Optional accessories	RM-NS1000, NSRE-S200, NSR-RM1, NSBK-A16, NSBK-A16H		RM-NS1000, NSRE-S200, NSR-RM1	RM-NS1000	-		-	

*1 More than one connector cannot be used at a time. *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.

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

Hybrid Recorder NSR-1000 Series Optional Accessories



NSRE-S200/4T
HDD Expansion Unit (4TB)



RM-NS1000
System Controller



NSBK-A16
Analogue Encoding Kit (MPEG-4)



NSBK-A16H
Analogue Encoding Kit (H.264)



NSR-RM1
Rack Mount Kit

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					
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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