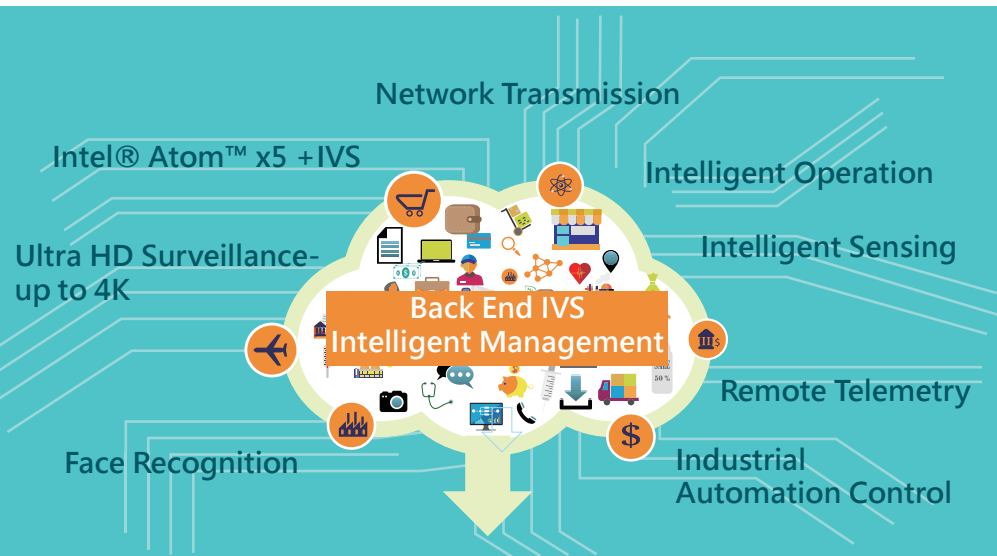


Network Camera Selection Guide

| IoT | Thermal | 2MP / 1.3MP Starlight | 2MP Professional |

SHANY



2017 APR.

Network Camera

[INDEX](#)

IoT Camera	Thermal Camera	5M Professional	3M Professional	2M 3.5X / 10X Zoom	2MP Starvis Motorized
SIC-WD2201MSF	SNC-WDL8D0120F SNC-WD2201MSZ-II-C SNC-51T0319F	SNC-WDL6503M SNC-WDL65043M SNC-WDL65033MS	SNC-WD6332M(V) SNC-WDL6333M(V) SNC-WDL63343M(V)	SNC-WDL224MZ-II SNC-WDL224MSZ-II SNC-WD2201MSZ-II SNC-WD2201MSZ-II-C SNC-WDL22043MSZ-II SNC-WDL22043MSZ-II-C	SNC-WD2202MSV-II SNC-WDL2202MSV-II SNC-WD2203MSV-II SNC-WDL2203MSV-II SNC-WDL22043MSV-II
Page 1	Page 2	Page 3	Page 4	Page 5	Page 6

2MP Professional Motorized	2MP Professional Varifocal	2MP Professional Varifocal	1.3MP Starlight Motorized	1.3MP Starlight Varifocal	Standalone NVR
SNC-WD2202MV-II SNC-WDL2202MV-II SNC-WDL2203MV-II SNC-WDL22043MV-II	SNC-WD2201M-II SNC-WD2202-II SNC-WDL22025 SNC-WD22035	SNC-WD2202M-II SNC-WDL2202M-II SNC-WDL2203M-II SNC-WDL22043M-II	SNC-WD2132MSV-II SNC-WDL2132MSV-II SNC-WDL2133MSV-II SNC-WDL21343MSV-II	SNC-WD2131MS-II SNC-WD2132MS-II SNC-WDL2132MS-II SNC-WDL2133MS-II SNC-WDL21343MS-II	4ch 8ch 16ch 32ch 36ch
Page 7	Page 8	Page 9	Page 10	Page 11	Page 12

IVS-II	CMS	Bracket
Intelligent Video Analytics	Integrated Systems	MTB-201 MTB-413 MTB-504 G-142 MTB-414S
Page 13	Page 14	Page 15

	Box
	 ICR 120dB
	SIC-WD2201MSF
Image Sensor	1/2.8" SONY 2.0 Megapixel STARVIS DOL CMOS Sensor
Video Frame Rate (Maximum)	1080P (50Hz: 25/50fps, 60Hz: 30/60fps)
Minimum Illumination	Color:0.001Lux@F1.2, B/W:0.0001Lux@F1.2
Wide Dynamic Range; ICR	120dB; Yes
Audio; Day & Night Mode	Two-way Audio (Optional); Color / B&W / Auto / External
Auto Electronic Shutter	1/25(30)~1/100,000 sec ; Flickerless
Manual Electronic Shutter	1/25(30), 1/50(60), 1/100(120), 1/125, 1/250, 1/500, 1/1000, 1/2000,1/4000, 1/8000,1/10000,1/20000,1/40000,1/80000, 1/100000 sec
White Balance	ATW / AWB / PWB(Push Lock) / Manual
WDR Functions	DOL-WDR (Digital Overlay WDR)
DNR; E-Zoom	DNR: High / Middle / Low / Off; E-Zoom (Support)
Language	English / Japanese / Traditional Chinese / Simplified Chinese
Image Setting	Corridor format / Mirror / Flip
Motion Detection	On: Sensitivity/Areas Programmable; Off
ROI (Region of Interest)	Support different areas configuration in all the streams with adjustable levels. Automatically dynamic tracking with face detection can be configured.
Face Detection; GPS	Support; Built-in GPS
Smart Video Analysis	Camera Tamper Detection (Optional), Object Left, Object Removed (Optional), People/Vehicle Counter (Optional) Virtual Fence (optional), Face Recognition (Optional), Smart Coding
Smart Record	Support recovering network connection and the loss of image/video will never happen
Smart Alarm	Network disconnected, IP address conflicts, Memory full/error, illegal access
Browser	IE10 or above
Bit Rate	64 up to 16,000 Kbps
Protocols	TCP IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP, SNMP, TRAP, ONVIF, Ethernet (RJ-45 Wired 10/100/1000 Base-TX)
Video Streaming; Audio Broadcast	H.265, H.264, M-JPEG; Two-way Audio(Optional)
Users; Security	Support 9 Users; ID/Password Protection
Alarm Trigger	File Upload via FTP and Email / Notification via Email, HTTP
Multicast	Support Multicast Function
Connector	Audio, RJ45, DC Power, DI / DO/RS422, Reset Button, Micro SD Slot, HDMI , Micro USB 3.0
Alarm In / Out	DI / DO
Automatic IRIS; Connector	DC IRIS/P-IRIS
Lens Mount; Storage	CS / C Mount; SD Card (Max 2TB) & SATA SSD HD(Max 8TB), mSATA
Power Supply; Consumption	12VDC / 24VAC / PoE+30W
Operation; Storage Temp.	-40°C ~ 65°C ; -40°C ~ 85°C
Operation; Storage Humidity	Maximum: RH80%; RH90%
Dimensions; Net Weight	67(W)x61(H)x155(D)mm; 450g
HDMI 1.4b	1920x 1080P / 3840x2160@60Hz/ / with SSC (HD Audio/LPE Audio/Compressed Audio)

		Hybrid Thermal Indoor	Thermal Indoor	Thermal Outdoor
Model	Model	 80x60 IP65	 640x480 IP65	 640x480 IP66
Name		SNC-WDL8D0120F	SNC-WD2201MSZ-II-C	SNC-51T0319F
Thermal	Image Sensor	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer	Uncooled VOx Microbolometer
	Effective Pixels	80 × 60	640x480	640x480
	Pixel Size	17 μm		
	Thermal Sensitivity(NETD)	<50 mK		
	Angle of view	H: 51°	H: 32°	H: 62°/34°/32°
	Temperature range & Accuracy	Low Gain -40°C ~+550°C High Gain -40°C ~+150°C Max (±2°C, ±2%)		
	Temperature alarm	Support	N/A	N/A
Visible	Image Sensor	1 / 2.8" 2M Exmor CMOS	N/A	N/A
	Lens	6 mm		
	Angle of view	H: 52.8°		
	Min Illumination	Color:0.1Lux@F1.2, B/W:0.01Lux@F1.2		
General	Video Compression	H.264/MPEG4/M-JPEG		
	Framerate	Thermal: 30fps@80 x 60 Visible: 30fps@1080P (default)/720P	Thermal: 30fps@640x480	Thermal: 30fps@640x480
	Pan/Tilt Range	N/A	N/A	127 Presets Pan: 0° ~ 355°; Tilt: -70° ~ 20°
	Compatibility	ONVIF, CGI		
	Ingress Protection	IP65	IP65	IP66
	Working Temperature	-10° C ~ 50° C	-20°C~+70°C	
	Power	DC12V, <4W	DC12V, <9W	AC 24V

Specifications are subject to change without notice.

	IR Dome	IR Bullet	Fisheye
Model	 ICR 656.9kgf IP66	 ICR IP66	 ICR
Name	SNC-WDL6503M	SNC-WDL65043M	SNC-WDL65033MS
Image Sensor	1/3" OV 5.0 Megapixel CMOS Sensor		1/1.8" Sony 5.0 Megapixel CMOS
Video Frame Rate (Maximum)	2592x1520@30fps, 2048x1520@30fps, 1920x1080@30fps, 704x576@30fps, 640x480@30fps, 640x352@30fps, 320x240@30fps		
Video Compression	H.265, H.264, MPEG4 and M-JPEG		
Minimum Illumination	Color: 0.05Lux@F1.2, B/W: 0.01Lux@F1.2, IR On: 0Lux@F1.2		Color: 0.001Lux@F1.2, IR On: 0Lux@F1.2
Wide Dynamic Range	80dB		
IR LED; Working Distance (Meter)	30 Units (4pcs High Power); 20~25M	30 Units (6pcs High Power); 25~30M	Supposed to be 3 units merely; 10~15M
Day & Night Mode	Color / B&W / Auto / External		
Auto Electronic Shutter	1/25(30)~1/30,000 sec ; Flickerless		
Manual Electronic Shutter	1/25, 1/50, 1/100, 1/150, 1/200, 1/250, 1/300, 1/400, 1/500, 1/1000, 1/2000, 1/4000, 1/6000, 1/8000 sec.		
White Balance	Auto / Manual		
DNR ; Sense-up	3D DNR ; Yes		
Language	English / Japanese / Traditional Chinese / Simplified Chinese / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch		
Image Setting	Brightness / Contrast / Saturation / Hue / Sharpness / Gamma / Auto White Balance / WDR / Mirror / Rotation / Defog		
Integrated Video Detection	Motion Detection / Video Loss / Lost Focus		
Camera Control Interface	Pelco D, Pelco P, Customized		
Ethernet	10/100M Auto Negotiation		
Bit Rate	32 up to 16,384 Kbps		
Protocols	TCP IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP, Ethernet (RJ-45 Wired 10/100 Base-TX)		
Video Streaming	H.265, H.264 and M-JPEG Dual Streaming		
Audio Broadcast	Two-way Audio ; G.711 (uLaw), G.726, 8KHz / 16KHz Sample Rate		N/A
Alarm Trigger	File Upload via FTP and Email / Notification via Email, HTTP, External Digital Output Activation, micro SD Recording		
Multicast	Support Multicast Function		
Connector	Audio, RJ45, DC Power, BNC, Reset, DI / DO / RS485		RJ45, DC Power, BNC, Reset Button
Lens Adapter	Built-in Varifocal Lens		Built-in Fisheye Lens
Lens	f2.8~12mm		f1.05mm
Power Supply; Consumption	12Vdc / PoE; 3W , IR On: 8W	12Vdc / PoE; 3W , IR On: 8W	12Vdc; 3.4W, LED On: 10.8W
Water Resistance; Max. Breaking Strength	IP66; 656.1kgf	IP66	N/A
Operation; Storage Temp.	-10° C ~ 50° C ; -20° C ~ 60° C		
Operation; Storage Humidity	Maximum: RH80% ; RH90%		
Dimension	140(DIA)x112(H)mm	89(DIA)x168(H)mm	120.5(DIA)x68mm
Net Weight	500g	700g	380g

	Dome	IR Dome	IR Bullet
Model	 ICR	 ICR 656.9kgf IP66	 ICR IP66
Name	SNC-WD6332M(V)	SNC-WDL6333M(V)	SNC-WDL63343M(V)
Image Sensor	1/3" OV 3.0 Megapixel CMOS Sensor		
Video Frame Rate (Maximum)	2592x1520@30fps, 2048x1520@30fps, 1920x1080@30fps, 704x576@30fps, 640x480@30fps, 640x352@30fps, 320x240@30fps		
Video Compression	H.265, H.264, MPEG4 and M-JPEG		
Minimum Illumination	Color: 0.05Lux@F1.2, B/W:0.01Lux@F1.2, Sense-up:0.001Lux@F1.2	Color: 0.05Lux@F1.2, B/W:0.01Lux@F1.2, Sense-up:0.001Lux@F1.2, IR On: 0Lux@F1.2	
Wide Dynamic Range	120dB		
IR LED; Working Distance (Meter)	N/A	30 Units(4pcs High Power); 20~25M	30 Units (6pcs High Power); 25~30M
Day & Night Mode	Color / B&W / Auto / External		
Auto Electronic Shutter	1/25 ~ 1/8000 Seconds		
Manual Electronic Shutter	1/25, 1/50, 1/100, 1/150, 1/200, 1/250, 1/300, 1/400, 1/500, 1/1000,1, 2000/1/4000, 1/6000, 1/8000 sec.		
White Balance	Auto/Manual		
DNR ; Sense-up	3D DNR ; Yes		
Language	English / Japanese / Traditional Chinese / Simplified Chinese / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch		
Image Setting	Brightness / Contrast / Saturation / Hue / Sharpness / Gamma / Auto White Balance / WDR / Mirror / Rotation / Defog		
Integrated Video Detection	Motion Detection / Video Loss / Lost Focus		
Camera Control Interface	Pelco D, Pelco P, Customized		
Ethernet	10/100M Auto Negotiation		
Bit Rate	32 up to 16,384 Kbps		
Protocols	TCP IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP, Ethernet (RJ-45 Wired 10/100 Base-TX)		
Video Streaming	H.265, H.264 and M-JPEG Dual Streaming		
Audio Broadcast	Two-way Audio ; G.711 (uLaw), G.726, 8KHz / 16KHz Sample Rate		
Alarm Trigger	File Upload via FTP and Email / Notification via Email, HTTP, External Digital Output Activation, micro SD Recording		
Multicast	Support Multicast Function		
Connector	Audio, RJ45, DC Power, BNC, Reset, DI / DO / RS485		RJ45, DC Power, BNC, Reset
Lens Adapter	Built-in Varifocal Lens		
Lens	f3.0~10mm	f2.8~12mm / f7~22mm	f2.8~12mm
Power Supply; Consumption	12Vdc / PoE; 3W	12Vdc / PoE (15W Switch) ; 3W , IR On: 8W	
Water Resistance; Max. Breaking Strength	N/A	IP66; 656.1kgf	IP66
Operation; Storage Temp.	-10° C ~ 50° C ; -20° C ~ 60° C		
Operation; Storage Humidity	Maximum: RH80% ; RH90%		
Dimension	140(DIA)x112(H)mm	140(DIA)x112(H)mm	89(DIA)x168(H)mm
Net Weight	550g	500g	700g

2M 3.5X /10X Zoom

HDR | Smart Zoom | LPR

	IR Bullet	IR Bullet	Box	LPR	IR Bullet	LPR	
Model	 ICR IP66 90dB	 ICR IP66 120dB	 ICR 120dB	 ICR 120dB	 ICR IP66 120dB	 ICR IP66 120dB	
Name	SNC-WDL224MZ-II		SNC-WDL224MSZ-II	SNC-WD2201MSZ-II	SNC-WD2201MSZ-II-C	SNC-WDL22043MSZ-II	SNC-WDL22043MSZ-II-C
Image Sensor	1/2.9" Sony 2.12M Exmor CMOS Sensor		1/2.8" Sony 2.13M STARVIS CMOS Sensor	1/2.8" SONY 2.0M Starvis CMOS Sensor			
Video Frame Rate (Maximum)	1920x1080@30fps(1080P), 1280x1024@30fps, 1280x960@30fps, 1280x720@30fps, 720x480@30fp			1920x1080@25/30fps, 1280x1024@25/30fps, 1280x720@25/30fps, 720x480@25/30fps			
Video Compression	H.264, MPEG4, M-JPEG			H.264, MPEG4 and M-JPEG			
Minimum Illumination	Color: 0.08 Lux, B/W: 0.02 Lux, IR On: 0 Lux @F1.7		Color: 0.02 Lux, B/W: 0.005 Lux, IR On: 0 Lux @F1.7	Color: 0.02Lux@F1.2, B/W: 0.005Lux@F1.2, Sense-up: 0.001Lux@F1.2		Color: 0.02Lux@F1.2, B/W: 0.005Lux@F1.2, IR On: 0Lux@F1.2	
Wide Dynamic Range	90dB		120dB	120dB			
Video Output	1.0Vp-p Composite, 75Ω (BNC)						
IR LED; Working Distance (Meter)	30pcs Hi-Bright (OSRAM LEDs), 20-25M			N/A	N/A	30 Units (6pcs High Power) ; 25~30M	30 Units (6pcs High Power); 25~30M
Day & Night Mode	Color / B&W / Auto / External						
Auto Electronic Shutter	1/25(30)~1/30,000 sec ; Flickerless						
Manual Electronic Shutter	1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000 sec						
White Balance	ATW / AWB / PWB (Push Lock) / Manual						
WDR & BLC Functions	D-WDR / WDR / BLC / HLC						
Fog Reduction; DNR	Auto / Manual / Off; Level: High / Middle / Low; High / Middle / Low / Off						
Language	English / Japanese / Traditional Chinese / Simplified Chinese / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch						
Image Setting	Sharpness / Mirror / Flip						
E-Zoom; Privacy Zone Masks	1.0X ~ 8.0X (step 0.1); 16 Zones Programmable						
Motion Detection	On: Sensitivity, Area Program / Off						
Lens Shading Compensation	On / Off						
Bit Rate	64 up to 12,000 Kbps						
Protocols	TCP IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP, SNMP, TRAP, Ethernet (RJ-45 Wired 10/100 Base-TX)						
Video Streaming	H.264, MPEG4 and M-JPEG Dual / Triple Streaming						
Audio Broadcast	Two-way Audio; G.711 (uLaw), 8KHz / 16KHz Sample Rate						
Alarm Trigger; Multicast	File Upload via FTP and Email / Notification via Email, HTTP; Support Multicast Function						
Focusing System	Smart Zoom & Auto Focus; Day / Night Focus Preset			Zoom & Auto Focus	Zoom & Auto Focus; D/N Preset	Zoom & Auto Focus	Zoom & Auto Focus; D/N Preset
Connector	Audio, RJ45, DC Power, BNC, DO / RS485, Reset Button			Audio, RJ45, DC Power, BNC, DI / DO / RS485, Reset Button, MicroSD Slot		Audio, RJ45, DC Power, BNC, DO / RS485, Reset Button	
Alarm In / Out	DI / DO						
Lens Adapter	Built-in Zoom Lens						
Lens	3.5X Optical Zoom f3.0mm(Wide)~10.5mm(Tele), F1.6			10X Optical Zoom f5mm (Wide) ~ 50mm (Tele), F1.8 to F3.0			
Power Supply; Consumption	12Vdc/PoE:8.4W, LED On: 12W			12Vdc / PoE; 4W	12Vdc / PoE; 4W	12Vdc / PoE; 7.2W, LED On: 10.8W	
Water Resistance; Max. Breaking Strength	IP66			N/A	N/A	IP66	IP66
Operation Storage Temp/Humidity	-10° C ~ 50° C ; -20° C ~ 60° C; Maximum: RH80% ; RH90%						
Dimension	101.4x87.3x280.3mm			118(L)x58(H)x62(W)mm	118(L)x58(H)x62(W)mm	89(DIA)x168(H)mm	89(DIA)x168(H)mm
Net Weight	640g			400g	400g	700g	700g

	Indoor Dome	Vandal IR Dome	Indoor Dome	Vandal IR Dome	IR Bullet
Model	 ICR	 ICR	 ICR	 ICR IK10 IP66	 IP66
Name	SNC-WD2202MSV-II	SNC-WDL2202MSV-II	SNC-WD2203MSV-II	SNC-WDL2203MSV-II	SNC-WDL22043MSV-II
Image Sensor	1/2.8" Sony 2.0M Starvis CMOS Sensor				
Video Frame Rate (Maximum)	1920x1080@25/30fps, 1280x1024@25/30fps, 1280x720@25/30fps, 720x480@25/30fps				
Video Compression	H.264, MPEG4 and M-JPEG				
Minimum Illumination	Color: 0.02Lux@F1.2, B/W: 0.005Lux@F1.2, Sense-up: 0.001Lux@F1.2	Color: 0.02Lux@F1.2, B/W: 0.005Lux@F1.2, Sense-up: 0.001Lux@F1.2, IR On: 0Lux@F1.2	Color: 0.02Lux@F1.2, B/W: 0.005Lux@F1.2	Color: 0.02Lux@F1.2, B/W: 0.005Lux@F1.2, IR On: 0Lux@F1.2	
Wide Dynamic Range	120dB				
IR LED; Working Distance(Meter)	N/A	24 Units; 12~15M	N/A	Standard:24 pcs Hi-Bright:12~15M Option: 24 Units(6pcs High Power),15~20M	Standard:30 pcs Hi-Bright:20~25M Option: 30 Units(6pcs High Power):25~30M
Day & Night Mode	Color / B&W / Auto / External				
Auto Electronic Shutter	1/25(30)~1/30,000 sec ; Flickerless				
Manual Electronic Shutter	1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000 sec				
White Balance	ATW / AWB / PWB (Push Lock) / Manual				
WDR & BLC Functions	D-WDR / WDR / BLC / HLC				
Fog Reduction	Auto / Manual / Off; Level: High / Middle / Low				
DNR	High / Middle / Low / Off				
Language	English / Japanese / Traditional Chinese / Simplified Chinese / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch				
E-Zoom	1.0X ~ 8.0X (step 0.1)				
Image Setting	Sharpness / Mirror / Flip				
Privacy Zone Masks	16 Zones Programmable				
Motion Detection	On: Sensitivity, Area Program / Off				
Lens Shading Compensation	On / Off				
Bit Rate	64 up to 12,000 Kbps				
Protocols	TCP IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP, SNMP, TRAP, Ethernet (RJ-45 Wired 10/100 Base-TX)				
Video Streaming	H.264, MPEG4 and M-JPEG Dual / Triple Streaming				
Audio Broadcast	Two-way Audio; G.711 (uLaw), 8KHz / 16KHz Sample Rate				
Alarm Trigger	File Upload via FTP and Email / Notification via Email, HTTP				
Multicast	Support Multicast Function				
Connector	Audio, RJ45, DC Power, BNC, DI / DO / RS485, Reset Button				
Alarm In / Out	DI / DO	DI / DO	DI / DO	DI / DO	DI / DO
Lens Adapter	Built-in Motorized Lens				
Lens	f2.8~12mm	f2.8~12mm, f7~22mm (Option)			
Water Resistance; Max. Breaking Strength	N/A	IP66; IK10	IP66; IK10	N/A	IP66
Power Supply; Consumption	12Vdc / PoE; 4W	12Vdc / PoE; 4W, LED On: 9W	12Vdc / PoE; 4W	12Vdc / PoE; 4W, LED On: 9W	12Vdc / PoE; 4W, LED On: 9W
Operation; Storage Temp.	-10° C ~ 50° C ; -20° C ~ 60° C				
Operation; Storage Humidity	Maximum: RH80% ; RH90%				
Dimension	140(DIA)x112(H)mm	140(DIA)x112(H)mm	140(DIA)x112(H)mm	140(DIA)x112(H)mm	89(DIA)x168(H)mm
Net Weight	500g	500g	550g	1000g	700g

2MP Professional Motorized

WDR | D/N Focus

	Indoor Dome		Vandal IR Dome		IR Bullet	
Model	 ICR	 ICR	 ICR IK10 IP66	 ICR IP66		
Name	SNC-WD2202MV-II		SNC-WDL2202MV-II		SNC-WDL2203MV-II	
Image Sensor	1/3" SONY 2.4 Megapixel Progressive CMOS Sensor					
Video Frame Rate (Maximum)	1920x1080@25/30fps, 1280x1024@25/30fps, 1280x720@25/30fps, 720x480@25/30fps					
Video Compression	H.264, MPEG4, M-JPEG					
Minimum Illumination	Color: 0.05Lux@F1.2, B/W: 0.02Lux@F1.2, Sense-up: 0.001Lux@F1.2		Color: 0.05Lux@F1.2, B/W: 0.02Lux@F1.2, IR On: 0.001Lux@F1.2			
Wide Dynamic Range	90dB					
Mechanical IR Cut Filter (ICR)	Yes		Yes		Yes	
IR LED; Working Distance (Meter)	N/A		24 Units, 12~15M		Standard:24 pcs Hi-Bright:12~15M Option: 24 Units (6pcs High Power), 15~20M	
Day & Night Mode	Color / B&W / Auto / External					
Auto Electronic Shutter	1/25(30)~1/30,000 sec ; Flickerless					
Manual Electronic Shutter	1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000 sec					
White Balance	ATW / AWB / PWB(Push Lock) / Manual					
WDR & BLC Functions	D-WDR / WDR / BLC / HLC					
Fog Reduction	Auto / Manual / Off; Level: High / Middle / Low					
DNR	High / Middle / Low / Off					
Language	English / Japanese / Traditional Chinese / Simplified Chinese / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch					
E-Zoom	1.0X ~ 8.0X (step 0.1)					
Image Setting	Sharpness / Mirror / Flip					
Privacy Zone Masks	16 Zones Programmable					
Motion Detection	On:Sensitivity, Area Program / Off					
Lens Shading Compensation	On / Off					
Bit Rate	64 up to 12,000 Kbps					
Protocols	TCP IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP, SNMP, TRAP, Ethernet (RJ-45 Wired 10/100 Base-TX)					
Video Streaming	H.264, MPEG4 and M-JPEG Dual / Triple Streaming					
Audio Broadcast	Two-way Audio; G.711 (uLaw), 8KHz / 16KHz Sample Rate					
Alarm Trigger	File Upload via FTP and Email / Notification via Email, HTTP					
Multicast	Support Multicast Function					
Connector	Audio, RJ45, DC Power, BNC, DI / DO / RS485, Reset Button					
Alarm In / Out	DI / DO		DI / DO		DI / DO	
Lens Adapter	Built-in Motorized Lens					
Lens	f2.8~12mm, f7~22mm (Option)					
Water Resistance; Max. Breaking Strength	N/A		N/A		IP66; IK10	
Power Supply; Consumption	12Vdc / PoE; 4W		12Vdc / PoE; 4W, LED On: 9W		12Vdc / PoE; 4W, LED On: 9W	
Operation; Storage Temp.	-10° C ~ 50° C ; -20° C ~ 60° C					
Operation; Storage Humidity	Maximum: RH80% ; RH90%					
Dimension	140(DIA)x112(H)mm		140(DIA)x112(H)mm		140(DIA)x112(H)mm	
Net Weight	500g		550g		1000g	
					89(DIA)x168(H)mm	
					700g	

	Box	Indoor Dome	Mini Dome	
Model	 ICR			 IK10 IP67
Name	SNC-WD2201M-II	SNC-WD2202-II	SNC-WD22025	SNC-WD22035
Image Sensor	1/3" SONY 2.4 Megapixel Progressive CMOS Sensor		1/2.8" Sony 2.0 Megapixel Progressive Exmor CMOS Sensor	
Video Frame Rate (Maximum)	1920x1080@25/30fps, 1280x1024@25/30fps, 1280x720@25/30fps, 720x480@25/30fps			
Video Compression	H.264, MPEG4, M-JPEG			
Minimum Illumination	Color: 0.05Lux@F1.2, B/W: 0.02Lux@F1.2, Sense-up: 0.001Lux@F1.2		Color: 0.1Lux@F1.2, B/W: 0.01Lux@F1.2, Sense-up: 0.001Lux@F1.2	
Wide Dynamic Range	90dB		Yes	
Mechanical IR Cut Filter (ICR)	Yes	N/A	N/A	N/A
IR LED; Working Distance (Meter)	N/A	N/A	N/A	N/A
Day & Night Mode	Color / B&W / Auto / External			
Auto Electronic Shutter	1/25(30)~1/30,000 sec; Flickerless			
Manual Electronic Shutter	1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000 sec			
White Balance	ATW / AWB / PWB (Push Lock) / Manual			
WDR & BLC Functions	D-WDR / WDR / BLC / HLC			
Fog Reduction	Auto / Manual / Off; Level: High / Middle / Low			
DNR	High / Middle / Low / Off			
Language	English / Japanese / Traditional Chinese / Simplified Chinese / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch			
E-Zoom	1.0X ~ 8.0X (step 0.1)			
Image Setting	Sharpness / Mirror / Flip			
Privacy Zone Masks	16 Zones Programmable			
Motion Detection	On: Sensitivity, Area Program / Off			
Lens Shading Compensation	On / Off			
Bit Rate	64 up to 12,000 Kbps			
Protocols	TCP IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP, SNMP, TRAP, Ethernet (RJ-45 Wired 10/100 Base-TX)			
Video Streaming	H.264, MPEG4 and M-JPEG Dual / Triple Streaming			
Audio Broadcast	Two-way Audio; G.711 (uLaw), 8KHz / 16KHz Sample Rate			
Alarm Trigger	File Upload via FTP and Email / Notification via Email, HTTP			
Multicast	Support Multicast Function			
Connector	Audio, RJ45, DC Power, BNC, DI / DO / RS485, Reset Button		RJ45 / PoE, DC Power, Reset Button	
Alarm In / Out	DI / DO	DI / DO	DI / DO	DI / DO
Lens Adapter	N/A	Built-in Varifocal Lens	Built-in Board Lens	
Lens	N/A	f2.8~12mm, f7~22mm (Option)	f2.8mm	
Water Resistance; Max. Breaking Strength	N/A	N/A	N/A	IP67; IK10
Power Supply; Consumption	12Vdc / PoE; 4W	12Vdc / PoE; 4W	12Vdc / PoE (15W Switch ; 4W)	12Vdc / PoE (15W Switch ; 4W)
Operation; Storage Temp.	-10° C ~ 50° C ; -20° C ~ 60° C			
Operation; Storage Humidity	Maximum: RH80% ; RH90%			
Dimension	62(W) x 56(H) x 120(L)mm	140(DIA)x112(H)mm	110(DIA)x57(H)mm	110(DIA)x57(H)mm
Net Weight	350g	550g	350g	500g

2MP Professional Varifocal

WDR

	Indoor Dome		Vandal IR Dome	IR Bullet
Model	 ICR	 ICR	 ICR IK10 IP66	 ICR IP66
Name	SNC-WD2202M-II	SNC-WDL2202M-II	SNC-WDL2203M-II	SNC-WDL22043M-II
Image Sensor	1/3" SONY 2.4 Megapixel Progressive CMOS Sensor			
Video Frame Rate (Maximum)	1920x1080@25/30fps, 1280x1024@25/30fps, 1280x720@25/30fps, 720x480@25/30fps			
Video Compression	H.264, MPEG4, M-JPEG			
Minimum Illumination	Color: 0.05Lux@F1.2, B/W: 0.02Lux@F1.2, Sense-up: 0.001Lux@F1.2	Color: 0.05Lux@F1.2, B/W: 0.02Lux@F1.2, Sense-up: 0.001Lux@F1.2, IR On: 0Lux@F1.2	Color: 0.05Lux@F1.2, B/W: 0.02Lux@F1.2, IR On: 0Lux@F1.2	
Wide Dynamic Range	90dB			
Mechanical IR Cut Filter (ICR)	Yes	Yes	Yes	Yes
IR LED; Working Distance (Meter)	N/A	30 Units, 15~20M	Standard: 30pcs Hi-Bright, 15~20M Option: 4pcs Hi-Power + 26pcs Hi-Bright, 20~25M	30 Units(30pcs Hi-Bright), 20-25M Option: 6pcs Hi-Power, 24pcs Hi-Bright, 25~30M
Day & Night Mode	Color / B&W / Auto / External			
Auto Electronic Shutter	1/25(30)~1/30,000 sec; Flickerless			
Manual Electronic Shutter	1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000 sec			
White Balance	ATW / AWB / PWB(Push Lock) / Manual			
WDR & BLC Functions	D-WDR / WDR / BLC / HLC			
Fog Reduction	Auto / Manual / Off; Level: High / Middle / Low			
DNR	High / Middle / Low / Off			
Language	English / Japanese / Traditional Chinese / Simplified Chinese / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch			
E-Zoom	1.0X ~ 8.0X (step 0.1)			
Image Setting	Sharpness / Mirror / Flip			
Privacy Zone Masks	16 Zones Programmable			
Motion Detection	ON:Sensitivity, Area Program / Off			
Lens Shading Compensation	On / Off			
Bit Rate	64 up to 12,000 Kbps			
Protocols	TCP IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP, SNMP, TRAP, Ethernet (RJ-45 Wired 10/100 Base-TX)			
Video Streaming	H.264, MPEG4 and M-JPEG Dual / Triple Streaming			
Audio Broadcast	Two-way Audio; G.711 (uLaw), 8KHz / 16KHz Sample Rate			
Alarm Trigger	File Upload via FTP and Email / Notification via Email, HTTP			
Multicast	Support Multicast Function			
Connector	Audio, RJ45, DC Power, BNC, DI / DO / RS485, Reset Button			
Alarm In / Out	DI / DO	DI / DO	DI / DO	DI / DO
Lens Adapter	Built-in Varifocal Lens			
Lens	f2.8~12mm			
Water Resistance; Max. Breaking Strength	N/A	N/A	IP66; IK10	IP66
Power Supply; Consumption	12Vdc / PoE; 4W	12Vdc / PoE; 4W, LED On: 9W	12Vdc / PoE; 4W, LED On: 9W	12Vdc / PoE; 4W, LED On: 9W
Operation; Storage Temp.	-10° C ~ 50° C ; -20° C ~ 60° C			
Operation; Storage Humidity	Maximum: RH80% ; RH90%			
Dimension	140(DIA)x112(H)mm	140(DIA)x112(H)mm	140(DIA)x112(H)mm	89(DIA)x168(H)mm
Net Weight	500g	550g	1000g	700g

1.3MP Starlight Motorized

Starlight | WDR | D/N Focus

	Indoor Dome		Vandal Dome	IR Bullet
Model	 ICR	 ICR	 ICR IK10 IP66	 ICR IP66
Name	SNC-WD2132MSV-II	SNC-WDL2132MSV-II	SNC-WDL2133MSV-II	SNC-WDL21343MSV-II
Image Sensor	1/3" Sony 1.3M Progressive Exmor CMOS Sensor			
Video Frame Rate (Maximum)	1280x1024@25/30fps, 1280x960@25/30fps, 1280x720@25/30fps, 720x480@25/30fps			
Video Compression	H.264, MPEG4, M-JPEG			
Minimum Illumination	Color: 0.02Lux@F1.2, B/W: 0.005Lux@F1.2	Color: 0.02Lux@F1.2, B/W: 0.005Lux@F1.2, IR On: 0Lux@F1.2		
IR LED; Working Distance (Meter)	N/A	24 Units:12~15M	Standard:24 pcs Hi-Bright, 12~15M Option: 24 Units(6pcs High Power), 15~20M	Standard:30 pcs Hi-Bright, 20~25M Option: 30 Units(6pcs High Power), 25~30M
Day & Night Mode	Color / B&W / Auto / External			
Auto Electronic Shutter	1/25(30)~1/30,000 sec ; Flickerless			
Manual Electronic Shutter	1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000 sec			
White Balance	ATW / AWB / PWB(Push Lock) / Manual			
WDR ; BLC	D-WDR / WDR / BLC / HLC			
Fog Reduction	Auto/Manual/Off ; Level: High / Middle / Low			
DNR ; Sense-up	High / Middle / Low / Off ; On (x2,x4,x8,x16,x32) / Off			
eZoom	1.0X ~ 8.0X (step 0.1)			
Language	English / Japanese / Traditional Chinese / Simplified Chinese / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch			
Image Setting	Sharpness / Mirror / Flip ; Lens Shading Compensation: On / Off			
Motion Detection	On: Sensitivity, Area Program / Off			
Privacy Zone Masks	12 Zones Programmable (4x3)			
Bit Rate	64 up to 12,000 Kbps			
Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP			
Video Streaming	H.264, MPEG4 and M-JPEG Dual / Triple Streaming			
Audio Broadcast	Two-way Audio; G.711 (uLaw), 8KHz / 16KHz Sample Rate			
Alarm Trigger	File Upload via FTP and Email / Notification via Email, HTTP			
Multicast	Support Multicast Function			
Connector	Audio, RJ45, DC Power, BNC, Reset Button, DI / DO / RS485			
Alarm In / Out	DI / DO	DI / DO	DI / DO	DI / DO
Lens Adapter	Built-in Motorized Lens			
Lens	f2.8~12mm / f7~22mm(Optional)			
Power Supply ; Consumption	12Vdc / PoE (15W Switch) ; 4W	12Vdc / PoE (15W Switch) ; 4W, LED On: 9W	12Vdc / PoE (15W Switch) ; 4W, LED On: 9W	12Vdc / PoE (15W Switch) ; 4W, LED On: 9W
Water Resistance; Max. Breaking Strength	N/A	N/A	IP66; IK10	IP66
Operation; Storage Temp.	-10° C ~ 50° C ; -20° C ~ 60° C			
Operation; Storage Humidity	Maximum: RH80% ; RH90%			
Dimension	140(DIA)x112(H)mm	140(DIA)x112(H)mm	140(DIA)x112(H)mm	89(DIA)x168(H)mm
Net Weight	500g	550g	1000g	700g

Specifications are subject to change without notice.

1.3MP Starlight Varifocal

Starlight | WDR

	Box	Indoor Dome		Vandal IR Dome	IR Bullet
Model	 ICR	 ICR	 ICR	 ICR IK10 IP66	 IP66
Name	SNC-WD2131MS-II	SNC-WD2132MS-II	SNC-WDL2132MS-II	SNC-WDL2133MS-II	SNC-WDL21343MS-II
Image Sensor	1/3" Sony 1.3M Progressive Exmor CMOS Sensor				
Video Frame Rate (Maximum)	1280x1024@25/30fps, 1280x960@25/30fps, 1280x720@25/30fps, 720x480@25/30fps				
Video Compression	H.264, MPEG4, M-JPEG				
Minimum Illumination	Color: 0.02Lux@F1.2, B/W: 0.005Lux@F1.2		Color: 0.02Lux@F1.2, B/W: 0.005Lux@F1.2, IR On: 0Lux@F1.2		
IR LED; Working Distance (Meter)	N/A	N/A	30 Units; 15~20M	Standard: 30pcs Hi-Bright, 15~20M Option: 4pcs Hi-Power + 26pcs Hi-Bright, 20~25M	30 Units(30pcs Hi-Bright), 20-25M Option: 6pcs Hi-Power, 24pcs Hi-Bright, 25~30M
Day & Night Mode	Color / B&W / Auto / External				
Auto Electronic Shutter	1/25(30)~1/30,000 sec ; Flickerless				
Manual Electronic Shutter	1/25(30), 1/50(60), 1/100(120), 1/240, 1/500, 1/1000, 1/2000, 1/4000, 1/8000, 1/16000, 1/30000 sec				
White Balance	ATW / AWB / PWB(Push Lock) / Manual				
WDR ; BLC	D-WDR / WDR / BLC / HLC				
Fog Reduction	Auto/Manual/Off ; Level: High / Middle / Low				
DNR ; Sense-up	High / Middle / Low / Off ; On (x2,x4,x8,x16,x32) / Off				
eZoom	1.0X ~ 8.0X (step 0.1)				
Language	English / Japanese / Traditional Chinese / Simplified Chinese / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch				
Image Setting	Sharpness / Mirror / Flip ; Lens Shading Compensation: On / Off				
Motion Detection	On: Sensitivity, Area Program / Off				
Privacy Zone Masks	12 Zones Programmable (4x3)				
Bit Rate	64 up to 12,000 Kbps				
Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP				
Video Streaming	H.264, MPEG4 and M-JPEG Dual / Triple Streaming				
Audio Broadcast	Two-way Audio; G.711 (uLaw), 8KHz / 16KHz Sample Rate				
Alarm Trigger	File Upload via FTP and Email / Notification via Email, HTTP				
Multicast	Support Multicast Function				
Connector	Audio, RJ45, DC Power, BNC, Reset Button, DI / DO / RS485				
Alarm In / Out	DI / DO	DI / DO	DI / DO	DI / DO	DI / DO
Lens Adapter	CS / C mount (With Adaptor Ring)	Built-in Varifocal Lens			
Lens	N/A; Option: f2.8~12mm, SHV-3M2812A-IR/f5-60mm, SHV-1M0560A-IR	f2.8~12mm / f7~22mm(Option)			
Power Supply ; Consumption	12Vdc / PoE (15W Switch) ; 4W	12Vdc / PoE (15W Switch) ; 4W	12Vdc / PoE (15W Switch) ; 4W, LED On: 9W	12Vdc / PoE (15W Switch) ; 4W, LED On: 9W	12Vdc / PoE (15W Switch) ; 4W, LED On: 9W
Water Resistance ; Max. Breaking Strength	N/A	N/A	N/A	IP66; IK10	IP66
Operation ; Storage Temp.	-10° C ~ 50° C ; -20° C ~ 60° C				
Operation ; Storage Humidity	Maximum: RH80% ; RH90%				
Dimension	62(W)x56(H)x120(L)mm	140(DIA)x112(H)mm	140(DIA)x112(H)mm	140(DIA)x112(H)mm	89(DIA)x168(H)mm
Net Weight	350g	500g	550g	1000g	700g

	4ch	8ch	16ch	32ch	36ch
Model					
Name	SNVR-8004ST-1	SNVR-8008ST-2	SNVR-8016ST-8A	SNVR-8032ST-8A	SNVR-8036ST-8A-II
CPU	SoC				
Operating System	Embedded Linux OS				
Language	Traditional Chinese, Simplified Chinese, English, Japanese, Thai, Korean, Russian, French, German, Italian, Portuguese, Spanish, Dutch, Turkish, Hungarian, Persian, Polish, Hebrew, Kazakh, Czech, Romanian				
System Update	Update Firmware via USB /Ethernet				
Recording Cameras	4ch 1080P / 4ch 720P	8ch 1080P / 8ch 720P	16ch 3M, 25ch 720P	16ch 5M, 16ch 3M, 25ch 1080P, 36ch 720P	36ch 3M, 36ch 1080P, 36ch 720P
Video Compression	H.264				H.264 / H.265
Recording Performance	1080P: 4Mbps~6Mbps, 720P: 2Mbps~4Mbps Sub-stream: 1Mbps, Max 20Mbps	1080P:1Mbps~6Mbps, 720P:500Kbps~1Mbps Sub-stream: 1Mbps, Max 40Mbps	3M:6Mbps~8Mbps,1080P: 4Mbps~6Mbps, 720P: 2Mbps~4Mbps Sub-stream: 1Mbps, Max 100Mbps	3M:6Mbps~8Mbps,1080P: 4Mbps~6Mbps, 720P: 2Mbps~4Mbps Sub-stream: 1Mbps, Max 128Mbps	3M:16Mbps,1080P: 4Mbps 720P:4Mbps Sub-stream:4Mbps, Max 576Mbps
Audio & Video Recording	Audio and Video Recording in Synchronization (Depends on IP Camera)				
Alarm In	4CH	4CH	4CH	4CH	4CH
Alarm Out	1CH	1CH	4CH	4CH	4CH
Menu	Can be set via browser or local control ; Local Control				
Split screen	1, 4	1, 4, 6, 8, 9	1, 4, 6, 8, 9, 16	1, 4, 6, 8, 9, 16, 25, 36	1, 4, 6, 8, 9, 16, 20, 25, 36
Recording Resolution; Speed	1080P: 25/30fps, 720P: 25/30fps	1080P: 30fps, 720P: 30fps	1080P: 5/30fps, 720P: 25/30fps	1080P: 25/30fps, 720P:25/30fps	1080P:25fps, 720P:25fps
Record Mode	Scheduled Record, Manual Record, Dynamic Detection, Alarm Trigger				
Video Search	Time Line Search, Event Search				
Remote Live View Control	Live View, Preset / Go, Remote I/O, Snapshot, Multi-view, 15X Digital PTZ				
Video Playback	1080P: 1ch, 720P: 4ch simultaneous playback		Any 4ch playback simultaneously		
Video Backup	USB Backup (Flash Drives, USB Hard Disk)				
Browser	IE 8~10				
Ethernet	10/100M Auto Negotiation x1				
Supported Protocols	TCP/IP, PPPoE, DHCP, DNS, RTSP, HTTP, SMTP				
Video Streaming	4ch 1080P / 4ch 720P	8ch 1080P / 8ch 720P	8ch 3M, 16ch 2M, 16ch 1M	16ch 3M / 25ch 2M / 25ch 1M	36ch 3M, 36ch 2M, 36ch 1M
Audio Streaming	Standard Compression G.711				
User	Support 4 Simultaneous Users	Support 5 Simultaneous Users	Support 2 Simultaneous Users		
Security	ID/Password Protection, User Access Log				
Alarm Event	Event Event Type: Video Loss, Sensor Triggered, Motion Detection Triggered				
Mobile Surveillance	Android, iOS(iPhone/iPad), Windows Mobile, Blackberry, Symbian				
Control; Network Interface	RS485 x1; RJ45 x 1			RS485 x1; RJ45 x 2	RS485 x1; RJ45 x 1
USB Interface	USB 2.0 x 3				USB 2.0 x 3, USB 3.0 x 1
Video Output	VGA x1, HDMI x1, BNC x1				VGA x1, HDMI x1
Audio	Audio In (RCA) x1 ; Audio Out (RCA) x1				
Hard Disk Drive	SATA x1, Max. 4TB	SATA x2, Max. 4TB	SATA x8, eSATAx1, each Max 4TB	SATA x8, eSATAx1, each Max 4TB	SATA x4, each Max 4TB
Power Supply	12Vdc 2.6A		110~220Vac 250W 50~60Hz		
Operation Temperature	-10° C~55° C				
Storage Temperature	-10° C~60° C				
Operation Humidity	10%~90%				
Dimensions	260(W)x43(H)x220(D)mm	345(W)x55(H)x300(D)mm	440(W)x90(H)x450(D)mm	440(W)x90(H)x450(D)mm	440(W)x90(H)x450(D)mm
Net Weight	2.5kg	2.5kg	6.5kg	6.5kg	6.5kg

IVS-II		
		
SNVR-IVS-II		
Smart Functions	Name	
	Thermal Imaging Camera	• Dual-camera module for the temperature of the object and clear display of its traits • Temperature range can be configured for alarm triggering • Frequently used on fever detection, server temperature, kitchen temperature etc., immediately checking the patient's condition, controlling temperature and avoiding catching fire
	Fisheye Panoramic	• 360° Full Panoramic View, 180° Dual View and Quad View for detailed surveillance • De-wrap real-time video or recordings from fisheye IP cameras
	CMS & Matrix	• Manage and monitor event notifications from multiple DVR/NVR sites • Archive event logs for further searching • Map display and live video display
	Seamless Cloud Storage	• Cache video recordings while confronting abnormal network traffic to avoid data loss • Auto-recycle & easy video search on external storage • Extend storage space to NAS/SAN/DAS for large data
	IP Optimization	• Auto connect & Setup IP Cameras in LAN with One Step(certain models only) • 64CH megapixel IP Camera connection • Local display, setup and video search • Dual-stream support • One-click camera setup
	Playback	Able to customize split-screen layout, and loop display camera video on the customized screen.
Software Features	Snapshot	64/56/49/48/36/30/25/24/20/16/12/9/6/4/1 split screen display, full screen display and customized screen layout
	Monitor	• Support up to 5 million pixel high-resolution IP Camera, 2 million cameras can reach 30 per second • Support ONVIF and RTSP protocol add camera, can be almost all the market brand camera, and use the camera Web set the video number, stream and resolution • Users can control the status of the local server, the remaining video space, the camera list, and their connection status through the screen • 1/4/6/9/10/13/16/25/36/49/64 divided screen • System supports platform function, can adjust the platform time, so that users can clearly see the single channel image full screen • Support bidirectional monitoring function (can be turned off), but does not affect the video. Network Time Auto-Calibration (NTP)
	Audio & Video Recording	• Support up to 5 million pixel high-resolution IP Camera, 2 million cameras can reach 30 per second • H.264 / MPEG-4 / M-JPEG (depends on IP Camera) • Intelligent video mode: Scheduled scheduling video, alarm video, appointment plus alarm • Support for motion detection alarm, camera shelter, according to user needs, the division of a number of different warning areas, and can support multi-level detection sensitivity level • Support Watermark
	Playback	• Support one screen & multiscreen playback at the same time. It can display 4, 6, 9, 16, 25, and 36 channels on a single screen • Support calendar input, time input and timeline click search playback • Forward playback at 1/16x, 1/8x, 1/4x, 1/2x, 1x, 2x, 4x, 8x, 16x, 32x, 64x, 100x. 200x • Take a snapshot of the recording in JPEG/BMP format or export a section of the video in "AVI" and "JEPG" format • Provide video screen special effects processing, such as picture mosaic, screen rotation • Continuous playback can be set to take pictures (1~999) • Search for 5 types of different analytics events, digital PTZ and video enhancement tool are all available in playback • Support simultaneous playback / Intelligent playback system
	Alarm	• Alarm record : Displacement detection, IO Alarm, IVS Alarm • Support Pre-Alarm 0~150 Sec & after alarm record 5~120 Sec
	Alarm with Actions	• Alarm with actions can be edited in accordance with the type of alarm, the source location of the action, the corresponding picture capture the four order, to define their own linkage mapping can be a single event source. For example, camera 1 generates a motion detection event, and snapshot the camera 2 & 5 and start recording • Actions include: video recording, alarm screen and even voice-activated camera PTZ preset point, E-mail, single-screen zoom • Events like motion detection, sensor triggering, video loss & HDD damage can be specifically assigned to different corresponding voice files by alarms and channel videos as well as sending email or text messages to users by configurations.
	Recording	• Continuous record, record by digital input, motion record, event recording, boosting recording, record by schedule, manual record • Operation rights can be divided into storage management, user equipment video scheduling displacement detection network management, system settings log alarm linkage management, edit the lens arrangement order password change PTZ operation control, playback function photo browse E-map Close NVR system, allowing remote log in NVR and allow the number of cameras to monitor the screen and other permissions to distinguish
Hardware Requirements	Automatic Backup	• To set their own backup work cycle, such as: month, day or a single execution • To specify the data backup time and need to be included in the camera screen • Supports local hard disk, external hard disk, network disk, NAS, FTP Server, disk array, tape drive U, USB flash drive, CD / DVD burner Machine, SD, CF, MMC, XD and other memory card backup
	Memory	4GB or more (more than 16 - way card or IPCAM 32 - way recommended more than 8GB)
	Graphics Card	Graphics card memory is greater than 1GB, TV-OUT graphics need to support overlay (D1 capture card) function
Software Requirements	CPU	Recommended Intel, 16-way capture card or 32-way IPCAM above recommended Intel I7-4790 or more
	OS	• Windows 7 32 or 64 bit(Limit the capture card or IP CAM) • Windows 8 32 or 64 bit(pure IPCAM) NTFS system file format is recommended • DirectX 9.0c or more(Graphics card driver or onboard chip driver included) • Net Framework 2.0(HVR software will automatically determine the installation) • Microsoft Visual C++ 2008 x86 or x64(HVR software will automatically determine the installation) • The latest graphics driver
	Recommended Equipment	• 8 CH: Intel I 3,8GB memory, IVS camera for 2 • 16 CH: Intel I5 4460,8GB memory, IVS camera for 3 • 32 CH: Intel I7-4790,8GB memory, IVS camera for 8 • 64 CH: Intel I7-4790,16GB memory, IVS camera for 8

	CMS
	
Name	SCMS-2001PCPRO
TV Mode	NTSC / PAL (Follow To Device)
Video Compression	H.264 / MPEG4 / MJPEG (Follow To Device)
Detect Remote Device	Check Remote Device Running Status
Device Manage Interface(DMI)	Tree Type
Quicksearch Dmi	Search device by ip and location
Support Remote Drive Relay	Support (Follow To Device)
E-mail Alarm	Support
Alarm Sound	WAV
Import/Export System Setting	Support
Linkage Data Setting	IP / Port / Account Password (Follow To Device)
Instant Video Receive	Support (Follow To Device)
Recording File Download	Support (Follow To Device)
Alarm Receive	I/O Event
Max Channel	Unlimited
Max Display Channel	64ch Of D1 Resolution At 30fps
Channel Split	4 / 6 / 8 / 9 / 10 / 16 / 25 / 36 /64
Max Resolution At Single Channel	1080P
Video Drag And Drop	Drag device from list to grid to display video
Video Group Search	Support
Support Manual Recording	Click and record in grid display
Remote Video Download	Support (Follow To Device)
Video Display	Display Video In Map / Drag Map To Display
Alarm Drive	Indicators on Maps
Snappoint	Drag device to map as snappoint
Auto Popup	Display error message and focus on top
Handle Log	Handle Time / Handle Person
Search Condition Setting	User Account / Time / Event Type
Log List Output	CSV Output
Rotation	8 Direction (Follow To Device)
Adjust Iris	Support (Follow To Device)
Adjust Focus	Support (Follow To Device)
Zoom In/Out	Support (Follow To Device)
Default Point	Support (Follow To Device)
Patrol	Support (Follow To Device)
Synchronize Playback	Support (Follow To Device)
Time Search	Support (Follow To Device)
Playback	Pause / Frame By Frame / Fast Forward / Slow Forward / Skip To Next / Skip To Last
Snapshot	Save As JPG File
Management	Support Password & Permission group

Bracket

	Dome Bracket				Bullet Bracket
Model	 Plastic	 Meta			
Name	MTB-201	MTB-413	MTB-504	G-142	MTB-414S
Mount	Indoor Wall Mount	Wall Mount	Ceiling Mount	Adapter Plate Of Fixed Dome For Pendant Bracket	Pole Mount
Apply to (Model)	2M Starlight: SNC-WD2202MS(V)-II SNC-WDL2202MS(V)-II 2M Professional SNC-WD2202-II SNC-WD2202MV-II SNC-WDL2202M(V)-II 1.3M StarLightl: SNC-WD2132MS(V)-II, SNC-WDL2132MS(V)-II	2M Starlight: SNC-WDL2203MS(V)-II 2M Professional: SNC-WDL2203M(V)-II 1.3M StarLightl: SNC-WDL2133MS(V)-II	2M Starlight: SNC-WD2202MS(V)-II SNC-WDL2202MS(V)-II SNC-WDL2203MS(V)-II 2M Professional SNC-WD2202-II, SNC-WD2202MV-II SNC-WDL2203M(V)-II 1.3M StarLightl: SNC-WD2132MS(V)-II, SNC-WDL2132MS(V)-II, SNC-WDL2133MS(V)-II	This bracket used to mount folLow indoor Dome camera 2M Starlight: SNC-WD2202MS(V)-II 2M Professional SNC-WD2202-II SNC-WDL2202MS(V)-II 1.3M StarLightl: SNC-WD2132MS(V)-II, SNC-WDL2132MS(V)-II	2M Starlight: SNC-WDL22043MS(V)-II SNC-WDL22043MSZ-II SNC-WDL22043MSZ-II-C SNC-WDL22043MLZ-II SNC-WDL22043MLZ-II-C 2M Professional SNC-WDL22043M(V)-II 1.3M StarLightl: SNC-WDL21343MS(V)-II
Apply to (Housing)					

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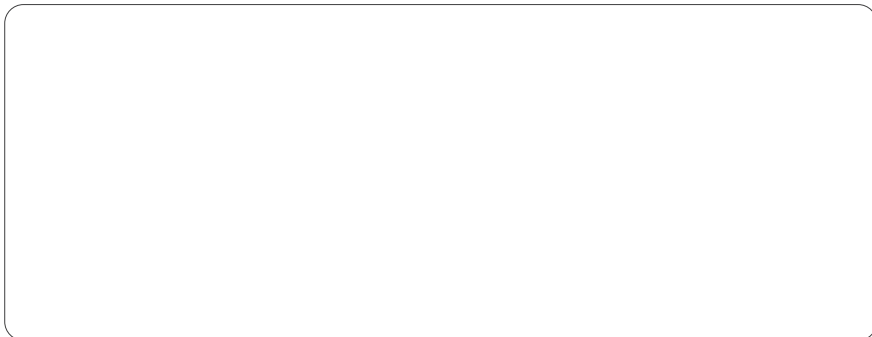
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