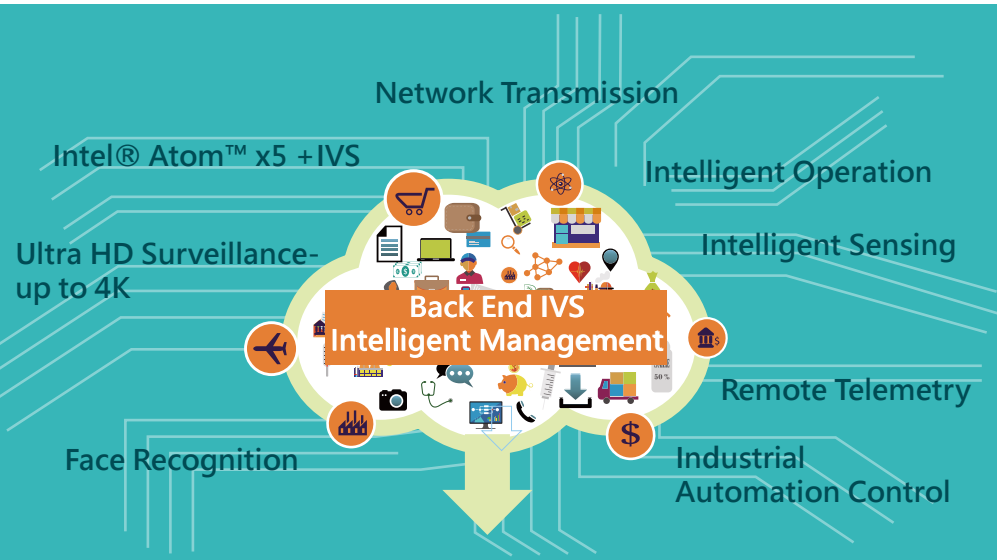


Network Camera Selection Guide

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

SHANY



2018

Network Camera

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IoT Camera	Thermal Camera	1080P 60fps Triple Streaming	5M Professional	3M Professional	2MP Starlight Series Key Features
SIC-WD2201MSF	SNC-WDL8D010F SNC-1T0319F SNC-51T0319F SNC-50T0319F	SNC-WD73M2020	SNC-WDL6503M SNC-WDL65043M SNC-WDL65033MS	SNC-WD6332M(V) SNC-WDL6333M(V) SNC-WDL63343M(V)	

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2MP Starlight Series Key Features	2M 3.5X / 10X Zoom	2MP Starlight Motorized	2MP Professional Motorized	2MP Professional Varifocal	2MP Professional Varifocal
	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	SNC-WD2202MV-II SNC-WDL2202MV-II SNC-WDL2203MV-II SNC-WDL22043MV-II	SNC-WD2201M-II SNC-WD2202-II SNC-WDL220205 SNC-WD22035	SNC-WD2202M-II SNC-WDL2202M-II SNC-WDL2203M-II SNC-WDL22043M-II

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2M Speed Dome & Zoom	1.3MP Starlight Motorized	1.3MP Starlight Varifocal	NVR KIT	Standalone NVR	PC NVR
SNC-WDL93M2020GS NZC-WD2020GSB SNC-WDL93M2030G NZC-WDL2030GB SNC-WD84M2020 SNC-WD92M2020 SNC-WDL93M2020	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	KN-1604A	SNVR-8004ST-1 SNVR-8008ST-2 SNVR-8016ST-8A SNVR-8032ST-8A	SNVR-IVS-II

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CMS	Bracket
SCMS-2001PCPRO	MTB-201 MTB-413 MTB-504 G-142 MTB-414S

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Box	
	• Software - Defined Smart IoT Camera • Open Platform OS Window 10 / Linux / Android • End-to-End Video Solutions  ICR 120dB  
SIC-WD2201MSF	
Image Sensor	1/2.8" SONY 2.0 Megapixel STARVIS DOL CMOS Sensor
Video Frame Rate (Maximum)	30/25fps (1920 × 1080, 1280 × 960, 1280 × 720)
Minimum Illumination	Color: 0.001Lux@F1.2, B/W: 0.0001Lux@F1.2
Wide Dynamic Range	120dB
Mechanical IR Cut Filter (ICR)	Yes
Day & Night Mode	Color / B&W / Auto
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 Overlap WDR)
DNR	DNR: High / Middle / Low / Off
Language	English
Image Flip	H-Flip (mirror) / V-Flip / HV-Flip / Off
Defog (Fog Reduction)	Support
Image Setting: Face Detection	Brightness / Contrast / Sharpness / Hue / Color; Support
Browser	IE10 or above
Ethernet; Bit Rate	Gigabit Ethernet 10/100/1000Base-TX; 64 up to 16,000 Kbps
Protocols	TCP, UDP, HTTP, DNS, DHCP, PPPoE, ARP, RTSP, RTP
Video Streaming; Users	H.264, M-JPEG; Support 9 Users
Connector	Audio , RJ45, DC Power, DI / DO / RS422, Reset Button, Micro SD Slot, HDMI, Micro USB 3.0
Automatic IRIS	DC IRIS
Lens Mount	CS / C Mount
Power Supply	12VDC / 24VAC / PoE+ 25W
Operation; Storage Temp.	-10°C ~ 55°C; -40°C ~ 85°C
Operation; Storage Humidity	Maximum: RH90%
Dimensions; Net Weight	67(W) x 61(H) x 160(D)mm; 500g
HDMI 1.4b	Up to 4K (3840x2160)

Thermal Camera

Model	SNC-WD8D010FB	SNC-1T0319F	SNC-50T0319F	SNC-51T0319F	SNC-WD94M2030T03
	 80x60	 640x480	 640x480 IP66	 640x480 IP66	 640x480 IP66
Type	Dual lens Thermal IP Cube Camera	Thermal IP Box Camera	Thermal PAN/TILT Camera	Thermal PAN/TILT Camera	Dual lens Thermal IP Speed Dome (6')
Thermal Video					
Image Sensor	Uncooled VOx Microbolometer				
Resolution; Pixel Size	80×60, Progressive Scan; 17 μm	640x480; 17 μm			
Spectral Range	Longwave infrared, 8 μm to 14 μm	7.5 - 13.5 μm; 19mm F=1 32°x29° (Option)			
Angle of View	H: 51°, V: 38°, D: 64°	H: 32°	H: 32°	H: 62° /34° /32°	N/A
Full Frame Rates; Thermal Display	30 fps (NTSC); 25 fps (PAL); B&W/Color/Reverse				
Temperature Detection (Option)	Center & Max. Temperature (MAX 3M / Tol. ±2°C or ±2%)	Center & Max. Temperature (MAX 20m/Tol. ±2°C)			
Temperature Alarm (Option)	Support (Adjustable)				
Visible Video					
Image Sensor	1 / 2.8" Sony 2M Exmor CMOS	N/A	N/A	N/A	1/2.8" Exmor CMOS
Video Resolution	200 Megapixel; 1920x1080P@30fps				200 Megapixel; 1920x1080P
Minimum Illumination	Color: 0.1Lux@F1.2, B/W: 0.01Lux@F1.2, Sense-up: 0.001Lux@F1.2				Color: 0.1Lux@F1.4, B/W: 0.001Lux@F1.4
Optical zoom; Focus; Fog Reduction	N/A; Support; Support				30X Optical zoom; 4.4mm to 132mm; Support; Support
Lens; WDR; ICR	f6.0mm; Support; Support				Support; Support
Aperture; OSD Menu	f4.0mm; English , Japanese,Traditional Chinese, Simplified Chinese and so on.				Auto/Manual; English , Japanese,Traditional Chinese
IR LED ; Working Distance	7 Units ; Max 10 Meter	N/A			
General					
TV System; Video Compression	PAL/NTSC; H.264. MPEG4, M-JPG				
Browser; Ethernet	IE 10 or Above; 10/100M Auto Negotiation				
Bit Rate ; ONVIF	64 up to 12,000 Kbps; Support ONVIF(Profile S)				
Protocols	TCP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, RTSP, RTP, SNMP, TRAP, ONVIF, Ethernet (RJ-45 Wired 10/100 Base-TX)				
Audio Broadcast	N/A	Two-way Audio; G.711 (μLaw), 8KHz/16KHz Sample Rate			
User; Security	Support 9 Users; ID / Password Protection				
Alarm Trigger	File Upload via FTP and Email/Notification via Email, HTTP, External Digital Output Activation	File Upload via FTP and Email/Notification via Email, HTTP, External Digital Output Activation, micro SD Recording			
Multicast; APP (IOS / Android)	Support Multicast Function; Support	Support Multicast Function; N/A			
Analog Video Output	N/A	Compositex1, F/BNC Connector			
Connector	RJ45, DC Power, Reset Button	N/A			
Alarm In / Out	DI / DO				
Rotate Range	N/A	N/A	H: 0 ~ 360°; V: -40 ~ +60°	H: 0 ~ 355°; V: -70° ~ +20°	H: 0 ~ 360°; V: 0 ~ +90°
Rotate Speed	N/A	N/A	0.1°~60°/ s; 0.1°~20°/ s	H: 5.6°/s; V: 3.6°/s	0.1~180°/s; 0.1~120°/s
Presets; Cruise	N/A; N/A	256; N/A	256; 8 patterns, 32 presets per pattern	127; 1 pattern	128
Scan	N/A	N/A	8 patterns, (Right/Left border setting supported)	1 pattern	1 pattern
PT Positioning; Waterproof	N/A; N/A	N/A; N/A	Support; IP66	Support; IP66	Support; IP66
Power Supply ; Consumption	12Vdc; 4W	DC12V;Max. 20W	DC12V; Max.20W	AC24V	DC12V/5A; <36W
Temp.; Humidity	-10° C ~ 50° C ; -20° C ~ 60° C	-10°C~50°C; Humidity Range<95%	-10°C~50°C; Humidity Range<95%	-30°C~50°C; Humidity Range<95%	-30°C~60°C; 0%~90%
Dimensions; Net Weight	71.6(W)x117.5(H)x35.5(D)mm; 450g	118(L)x 62(W) x 58(H) mm; 400g	380(L) ×128(W) ×262(H)mm; 2.5Kg	N/A	N/A

1080P 60fps Triple Streaming

IP | HD-SDI | HDMI

	20X 1080P / 60fps PTZ
	
	SNC-WD73M2020
Image Sensor	1/3" High Quality HD CMOS Sensor
Video Signal (SDI & HDMI)	1080p@60/50/30/25, 1080i60/50, 720p60/50
Minimum Illumination	1.0Lux
Active Pixel	16:9, 2.1Mega Pixel
Audio	Line In / Line Out 3.5mm
S/N Ratio	>50dB
Shutter; HD Video Interface	Auto; HDMI, HD-SDI(3G), RJ45
White BalanceControl Signal Interface	Auto; 8-pin min DIN
Control Signal Format	Start Bit: 1, Data Bit: 8, Stop Bit: 1; Baud rate: 9600 / 4800 / 2400bps
Power Interface	HEC3800 Power Plug
Language	English / Chinese
E-Zoom	12X
Pan & Tilt Range	±170°; -30~90°
Pan & Tilt Speed	0.1~100° / sec; 0.1~60° / sec,
Preset Speed	Pan: 100° / sec; Tilt: 60° / sec,
Preset Accuracy	0.05°
Preset Positions	255
Browser	IE 6.0 or Above
Coding Format	H.265 Main Profile, H.264 Baseline Profile, Main Profile, High profile, MJPEG
Video Resolution	Main Stream: 1920*1080@60/30fps, 1280*720@60/30fps
Sub Stream	Sub Stream: 720*576@60/30fps, 640*480@60/30fps
Protocols	TCP / IP, UDP, RTP, RTSP, RTCP, HTTP, DNS, DDNS, DHCP, FTP, NTP, PPPOE, SMTP, UPNP
Video Compression Rate	32Kbps-16Mbps continuous adjustable; Support CBR/VBR
Subtitle Overlay	Support channel name, Date, Code stream information overlay, Overlay place adjustable
Data Storage	Video/Picture files
Storage Mechanism	Manual, Auto (Cycle, Fixed time, Alarm switch, Motion detection)
ONVIF Protocol	Standard ONVIF
Mobile Support	iPhone, iPad, Android platform
Focus	Auto / Manual
IRIS	Auto / Manual
Zoom Lens	20X Optical Zoom f4.7~94mm
Lens Angle of View	55.4°(Wide) ~ 2.9°(Tele)
Water Resistance	N/A
Max. Breaking Strength	N/A
Power Supply; Consumption	12Vdc; 18W
Operation; Storage Temp.	0°C ~ 45°C; -10°C ~ 60°C
Operation; Storage Humidity	Maximum :RH80%; RH90%
Dimensions; Net Weight	175.5x156.4x190mm; 1000g
Operating Environment	Indoor

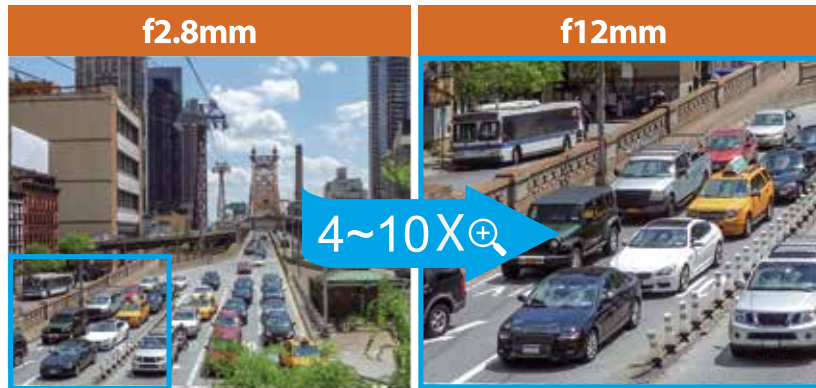
	IR Dome	IR Bullet	Fisheye	Fisheye
Model	 ICR IK10 IP66	 ICR IP66	 ICR	 ICR
Name	SNC-WDL6503M	SNC-WDL65043M	SNC-WDL65033MS	SNC-WDL65033M
Image Sensor	1/3" OV 5.0 Megapixel CMOS Sensor		1/1.8" SONY 5.0 Megapixel CMOS	1/3.2" OV 5.0 Megapixel CMOS Sensor
Video Frame Rate (Maximum)	2592x1520@30fps, 2048x1520@30fps, 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, IR On: 0Lux@F1.2		Color: 0.001Lux@F1.2, IR On: 0Lux@F1.2	Color: 0.6Lux@F1.2, B/W: 0.02Lux@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	3 Units ; 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	N/A
Alarm Trigger	File Upload via FTP and Email / Notification via Email, HTTP, External Digital Output Activation			
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	Built-in Fisheye Lens
Lens	f2.8~12mm		f1.05mm	f1.05mm
Power Supply; Consumption	12Vdc / PoE; 3W , IR On: 8W	12Vdc / PoE; 3W , IR On: 8W	12Vdc; 3.4W, LED On: 10.8W	12Vdc ; 3.4W, LED On: 9W
Water Resistance; Max. Breaking Strength	IP66; IK10	IP66	N/A	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	

3M Professional

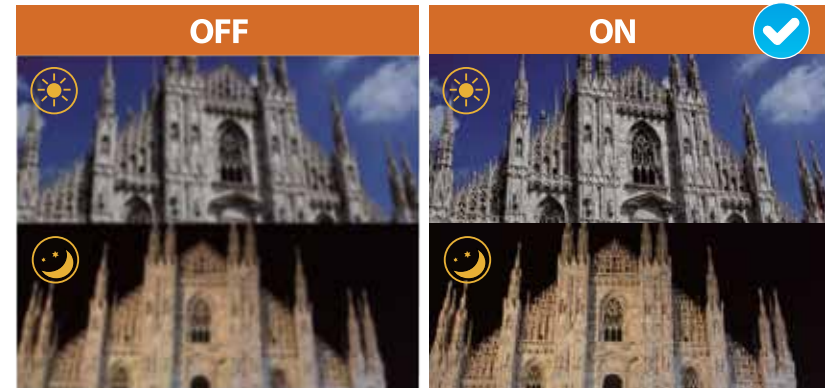
H.265 | Defog

	Dome	IR Dome	IR Bullet
Model	 ICR	 ICR IK10 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; 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	89(DIA)x168(H)mm
Net Weight	500g	550g	700g

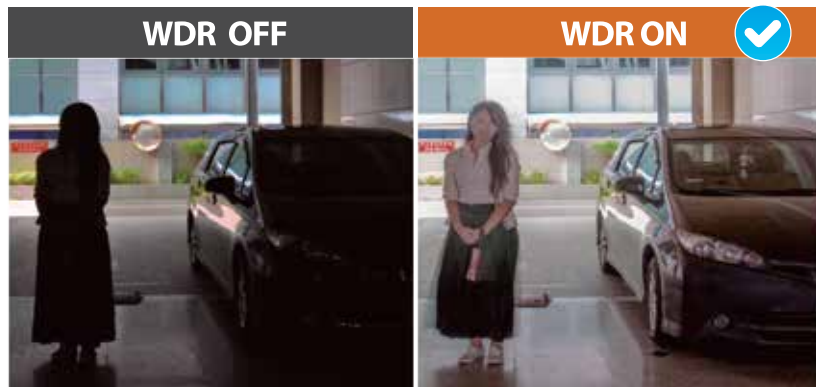
2MP Starlight Series Key Features



Built-in f2.8~12mm Motorized Lens makes zoom & focus adjustment easy



Auto Focus works when Day/Night mode switches

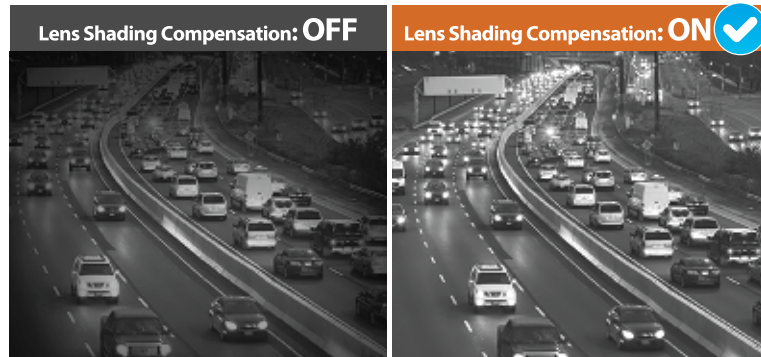


True WDR up to 120dB achieves proper exposure for the best result of images



Adjustable LED light level is made possible with the help of IR Optimizer

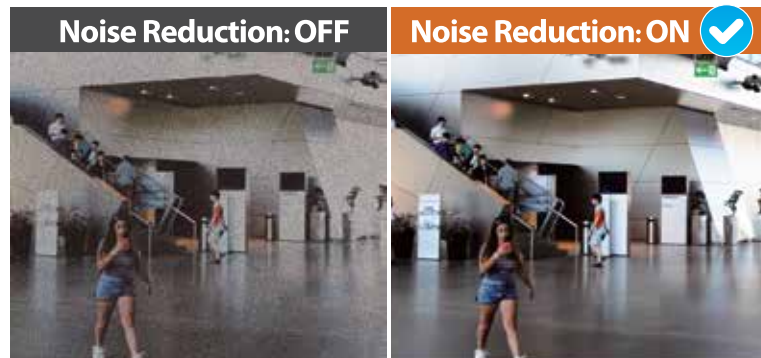
2MP Starlight Series Key Features



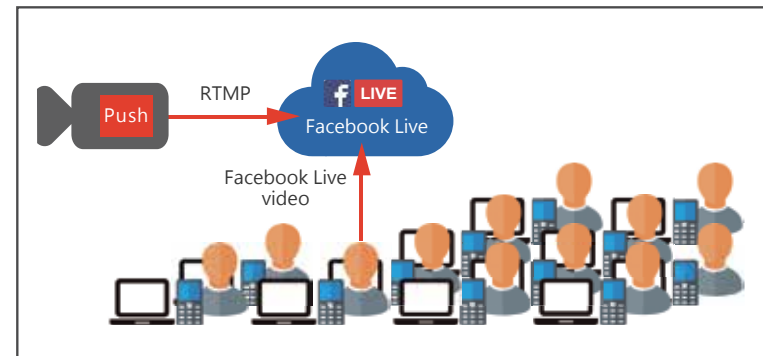
Lens Shading Compensation: Corners are brightened without affecting brightness in the center when enabled



Auto/Manual mode of Fog Reduction helps display better pictures when visibility gets low



2D/3D Noise Reduction & Sense up optimize live image quality under different lighting conditions



IP cam direct push streaming to Facebook Live (Option)

	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 2.24Megapixel Exmor CMOS Sensor		1/2.8" Sony 2.16 Megapixel STARVIS CMOS Sensor	1/2.8" SONY 2.16 Megapixel 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, DI / DO / RS485, Reset Button			Audio, RJ45, DC Power, BNC, DI / DO / RS485, Reset Button, MicroSD Slot		Audio, RJ45, DC Power, BNC, DI / 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), F1.7			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		89(DIA)x168(H)mm	89(DIA)x168(H)mm
Net Weight	640g			400g		700g	700g

2MP Starlight Motorized

Starlight | HDR | D/N Focus

	Indoor Dome		Vandal Dome		IR Bullet
Model	 ICR	 ICR	 ICR IK10 IP66	 ICR IK10 IP66	 ICR IP66
Name	SNC-WD2202MSV-II	SNC-WDL2202MSV-II	SNC-WD2203MSV-II	SNC-WDL2203MSV-II	SNC-WDL22043MSV-II
Image Sensor	1/2.8" Sony 2.16 Megapixel 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, 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	
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				
Sense up	On (x2, x4, x8 ,x16, x32) / 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, MicroSD Slot				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, f7~22mm (Option)				
Water Resistance; Max. Breaking Strength	N/A	N/A	IP66; IK10	IP66; IK10	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	550g	950g	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	SNC-WDL22043MV-II
Image Sensor	1/ 2.9" SONY 2.24 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	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	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, MicroSD Slot			Audio, RJ45, DC Power, BNC, 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 (Option)			
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

2MP Professional Varifocal

WDR

	Box	Indoor Dome	Mini Dome	
Model	 ICR			 IK10 IP67
Name	SNC-WD2201M-II	SNC-WD2202-II	SNC-WD22025	SNC-WD22035
Image Sensor	1/2.9" SONY 2.24 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: 0.1Lux@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, MicroSD Slot		RJ45 / PoE, DC Power, MicroSD Slot	
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

Specifications are subject to change without notice.

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	1/2.9" SONY 2.24 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, MicroSD Slot			Audio, RJ45, DC Power, BNC, DI / DO / RS485
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

2M Speed Dome & Zoom

20x / Starlight			20x			30x	
	AutoTracking Speed Dome	Zoom	AutoTracking Speed Dome			AutoTracking Speed Dome	Zoom
Model	Starlight  IP66 ICR	Starlight  ICR	 IP66 ICR	 IP66 ICR	 IP66 ICR	 IP66 ICR	 ICR
Name	SNC-WDL93M2020GS	NZC-WD2020GSB	SNC-WD84M2020	SNC-WD92M2020	SNC-WDL93M2030G	NZC-WDL2030GB	SNC-WD84M2020
Image Sensor	1/2.8" SONY 2.0M Starvis CMOS Sensor		1/2.8" Sony 2.0 M CMOS Sensor			SONY 1/2.8" 2.48M CMOS Sensor	
Video Frame Rate (Maximum)	1920x1080p@25/30fps, 1280x720p@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:0.5Lux@F1.4, B/W:0.1Lux@F1.4, Sense-up:0.005Lux@F1.4		Color:0.5Lux@F1.4, B/W:0.1Lux@F1.4, IR On:0.005Lux@F1.4	Color:0.1Lux@F1.4, B/W:0.001Lux@F1.4	Color:0.1Lux@F1.4, B/W:0.001Lux@F1.4
Video Output	1.0Vp-p Composite, 75Ω (BNC)	SDI	1.0Vp-p Composite, 75Ω (BNC)				
IR LED ; Working Distance (Meter)	10 LEDs ; Max. 120M	N/A	N/A	N/A	10 LEDs; Max. 120M	10 LEDs; Max. 120M	N/A
Day&Night Mode	On / Off / Auto		Color / B&W / Auto / External			On / Off / Auto	
Auto Electronic Shutter	1/30~1/120000sec NTSC ; 1/25~1/120000sec PAL		1/100,000 to 1/2 sec.			1/30~1/120000sec NTSC ; 1/25~1/120000sec PAL	
Manual Electronic Shutter	1/25(30), 1/50(60)(flickerless), 1/100, 1/120, 1/150, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1,000,		1/2, 1/4, 1/8, 1/15, 1/30, 1/60, 1/120, 1/250, 1/500, 1/750,1/1,000, 1/10,000, 1/100,000 sec.			1/25(30), 1/50(60)(flickerless), 1/100, 1/120, 1/150, 1/180, 1/250, 1/350, 1/500, 1/750, 1/1,000,	
White Balance	Auto / ATW / AWB (Push Lock)		Auto_wide / Auto_normal / Outdoor / Indoor Lamp/FL1/FL2			Auto / ATW / AWB (Push Lock)	
WDR & BLC Functions	Off / Low / Mid / High		N/A			Off / Low / Mid / High	
DNR	Yes						
Language	English / Japanese / Chinese (Traditional, Simplified) / Russian / Hungarian / German / Persian / Spanish / Polish / Dutch						
Image Setting	Brightness / Contrast / Saturation / Sharpness / NR / EV Compensation / Auto White Balance/ WDR / Rotate / Exposure Mode / Exposure Sequence / IRIS Control		Brightness / Contrast / Saturation / SharpnessEV Compensation / AWB / WDR / Rotation / Exposure Mode /Exposure Priority / Auto IRIS / BLC			Brightness / Contrast / Saturation / Sharpness / NR / EV Compensation / Auto White Balance/ WDR / Rotate / Exposure Mode / Exposure Sequence / IRIS Control	
Motion Detection	Yes						
Bit Rate	64 up to 12,000 Kbps						
Protocols	TCP IP, UDP, HTTP, SMTP, FTP, NTP, DNS, DHCP, PPPoE, ARP, UPnP, QoSRTSP, RTP, SNMP, TRAP, Ethernet (RJ-45 Wired 10/100M Base-TX)						
Video Streaming	H.264, MPEG4 and M-JPEG Dual/Triple Streaming						
Audio Broadcast	Two-way Audio						
Alarm Trigger	File Upload via FTP and Email/Notification via Email, HTTP, External Digital Output Activation						
Multicast	Support Multicast Function						
Connector	Audio, RJ45, DC Power, BNC, Reset Button	Audio, RJ4, PoE, Power, BNC, Reset, RS485, Micro SD	Audio, RJ45, DC Power, BNC, Reset Button	Audio, RJ45, DC Power, BNC, Reset Button	Audio, RJ45, DC Power, BNC, Reset Button	Audio, RJ45, DC Power, BNC, Reset Button	Audio, RJ45, PoE, Power, BNC,Reset, RS485, Micro SD
Lens	20X Optical Zoom f4.7mm(Wide)~94.0mm(Tele)		20X Optical Zoom f4.7mm(Wide)~94.0mm(Tele)			30X Optical Zoom f4.4mm(Wide)~132mm(Tele)	
Power Supply ; Consumption	12Vdc ; 50W	12Vdc / PoE ; 7.8W	12Vdc ; 50W			12Vdc ; 50W	12Vdc / PoE ; 7.8W
Operation ; Storage Temp	-10° C ~ 50° C ; -20° C ~ 60° C						
Operation ; Storage Humidity	Maximum: RH80% ; RH90%						
Dimension	235x350mm	67(W)x72(H)x170(L)mm	224x380mm	230x300mm	235x350mm	235x350mm	67(W)x72(H)x170(L)mm
Net Weight	4.43kg	660g	3.65kg	2.46kg	4.43kg	4.43kg	660g

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, DI / DO / RS485, MicroSD Slot			Audio, RJ45, DC Power, BNC, 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	 ICR 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, DI / DO / RS485, Reset Button, MicroSD Slot				Audio, RJ45, DC Power, BNC, 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

Kit Model Number	KN-1604A
Description	4 Channel NVR with 4 PoE Ports
	
Operation System	Embedded Linux OS
Operation Interface	Graphical user interface(GUI), Mouse, Remote Control, Touch Button
Image Compression	H.264
Video Input	4CH 960P (PoE)
Video Output	HDMI: 1920*1080P, VGA: 1280*1024
Recording Mode	Manual, Schedule, Alarm, Motion Detection
Recording Frame Rate	NTSC 30fps / PAL 25fps
Recording Resolution	1280 x 960
Playback Resolution	4CH x 960P @30fps
Network Interface	1 RJ45 Ethernet Interface, Support 10M / 100M Adaptive; TCP / PPPoE / DHCP / DDNS / UPnP, Network Protocol
Remote Connection	Support Android, iPhone, Web Browser
Hard Disk	SATA 3.5" x 1, up to 4TB
PoE Power	RJ45 x 4 (LAN with PoE)
USB interface	Rear Panel: 2 x USB 2.0
Alarm Input / Output	N/A
Power	DC15V, 4A
Dimension	257(W) x 40(H) x 208(D) mm
Net Weight	750g
Description	960P Bullet IPC with PoE
Operation System	Embedded Linux
Image Sensor	1/3 CMOS Sensor AR0131
DSP	HI3518 V200
Build in Lens	3.6mm
Resolution	Main-stream: 1280 X 960 (Recording Resolution); Sub-stream: 640 X 360
Video Frame Rate	Main-stream:1-30 fps; Sub-stream: 1-30 fps
IR LEDS	36pcs LEDS
IR Distance (Meter)	15M
IP Rating	IP66
Network Interface	1 RJ45 Etherface, 10 / 100M Adaptive
Network Protocols	HTTP / TCP / APP / RTSP / RTP / RTCP / DHCP / DNS / DDNS / IPV4 / NTP / ONVIF Protocol
Dimension	178(W)x70(D) mm
Net Weight	300g
18 Meter Male/Male LAN Cable	4
Kit Carton Size	440(W)x 320(H)x200(D) mm

Standalone NVR

H.264

	4ch	8ch	16ch	32ch
Model				
Name	SNVR-8004ST-1	SNVR-8008ST-2	SNVR-8016ST-8A	SNVR-8032ST-8A
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
Video Compression	H.264			
Recording Performance	1080P: 4Mbps~6Mbps, 720P: 2Mbps~4Mbps Sub-stream: 1Mbbps, Max 20Mbps	1080P:1Mbps~6Mbps, 720P:500Kbps~1Mbps Sub-stream: 1Mbbps, Max 40Mbps	3M:6Mbps~8Mbps,1080P: 4Mbps~6Mbps, 720P: 2Mbps~4Mbps Sub-stream: 1Mbbps, Max 100Mbps	3M:6Mbps~8Mbps,1080P: 4Mbps~6Mbps, 720P: 2Mbps~4Mbps Sub-stream: 1Mbbps, Max 128Mbps
Audio & Video Recording	Audio and Video Recording in Synchronization (Depends on IP Camera)			
Alarm In	4CH	4CH	4CH	4CH
Alarm Out	1CH	1CH	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
Recording Resolution; Speed	1080P: 25/30fps, 720P: 25/30fps	1080P: 30fps, 720P: 30fps	1080P: 25/30fps, 720P: 25/30fps	1080P: 25/30fps, 720P:25/30fps
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 / 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
USB Interface	USB 2.0 x 3			
Video Output	VGA x1, HDMI x1, BNC 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
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
Net Weight	2.5kg	2.5kg	6.5kg	6.5kg



Name		SNVR-IVS-II
Smart Functions	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.
	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
Software Features	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, support up to 5MP IP Camera, 2MP@30fps, 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 5MP IP Camera, 2MP@30fps, 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 "JPEG" 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
	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
Hardware Requirements	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
	CPU	Recommended Intel, 16-way capture card or 32-way IPCAM above recommended Intel I7-4790 or more
Software Requirements	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

	Dome Bracket					Bullet Bracket
Model	 Plastic	 Meta				
Name	MTB-201	MTB-413	MTB-423	MTB-504	G-142	MTB-414S
Mount	Indoor Wall Mount	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 Starlight: SNC-WD2132MS(V)-II, SNC-WDL2132MS(V)-II	2M Starlight: SNC-WDL2203MS(V)-II 2M Professional: SNC-WDL2203M(V)-II 1.3M Starlight: SNC-WDL2133MS(V)-II	2M Starlight (STARVIS): SNC-WDL223MSZ-II 2M Professional: SNC-WDL223MZ-II SNC-WDL223ML-II 1.3MP Starlight: SNC-WDL213MS-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 Starlight: SNC-WD2132MS(V)-II, SNC-WDL2132MS(V)-II, SNC-WDL2133MS(V)-II	This bracket used to mount following indoor dome camera 2M Starlight: SNC-WD2202MS(V)-II 2M Professional: SNC-WD2202-II SNC-WDL2202MS(V)-II 1.3M Starlight: 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 Starlight: SNC-WDL21343MS(V)-II
Apply to (Housing)	  	 		 	 	  MTB-423

Specifications are subject to change without notice.



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