



Network

XNO-6123R

2MP AI IR Bullet Camera



Key Features

Maximum 2MP resolution

- Color: 0.03 Lux (F1.6, 1/30 sec, 30IRE), 0 Lux (IR LED on)
- Maximum 120 fps (H.265/H.264)
- Maximum IR viewable length : WiseIR 90m(295.28ft)
- Day & Night (ICR), extremeWDR (150 dB)
- WiseNR II (Based on AI engine), WiseStreamIII (Based on AI engine)
- DIS with built-in Gyro sensor
- Analytics events based on AI engine (NPU) : Object detection (Person/Face/Vehicle car, truck, bus, bicycle, motorcycle/License plate),
- IVA (Virtual line/Area, Enter/Exit, Loitering, Direction, Intrusion)
- Analytics events : Defocus detection, Motion detection, Tampering, Fog detection
- Audio detection, Sound classification, Shock detection, Appear/Disappear
- Certification : IP66/IP67, NEMA4X, IK10

Compatible Accessories (Optional) SBP-900CMW SBP-300CMTW SBP-160HMW1 SBP-150CMI SBP-300CMI SBP-300CMW1 SBP-300CMTS

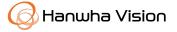
SBP-300WMW SBP-300WMW1 SBP-390WMW2 SBP-160WMW1 SBD-180PMW







SBP-300LMW







Specifications

Video	
Imaging Device	1/2.8" CMOS
Resolution	1920x1080, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264: Max. 120fps/100fps(60Hz/50Hz)(WDR off) Max. 60fps/50fps(60Hz/50Hz)(WDR on) MJPEG: Max. 30fps
Min. Illumination	Color: 0.03Lux(F1.6, 1/30sec, 30IRE) BW: 0.003Lux(F1.6, 1/30sec, 30IRE), 0Lux(IR LED on), 30/25fps
	Color: 0.06Lux(F1.6, 1/60sec, 30IRE) BW: 0.006Lux(F1.6, 1/60sec, 30IRE), 0Lux(IR LED on), 60/50fps
	Color: 0.12Lux(F1.6, 1/120sec, 30IRE) BW: 0.012Lux(F1.6, 1/120sec, 30IRE), 0Lux(IR LED on), 120/100fps
Video Out	CVBS: 1.0 Vp-p / 75Ω composite, 720x480(N), 720x576(P) for installation USB: Micro USB Type B, 1280x720 for installation
Lens	
Focal Length (Zoom Ratio)	5.2~62.4mm(12x) zoom(digital 32x, total 384x zoom)
Max. Aperture Ratio	F1.6(Wide)~F3.0(Tele)
Angular Field of View	H: 55-(Wide)~5-(Tele) V: 33-(Wide)~3-(Tele) D: 62-(Wide)~6-(Tele)
Min. Object Distance	1.5m(4.92ft)
Focus Control	Oneshot AF, Focus save
Lens Type	DC auto iris
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~360° / 0°~90° / 0°~360°
Sequence	Preset(300ea)
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSDR
Wide Dynamic Range	extremeWDR(150dB)
Digital Noise Reduction	WiseNR II (Based on AI engine), SSNR V
Digital Image Stabilization	Support(built-in gyro sensor)
Defog	Support
Motion Detection	8ea, 8point Polygonal zones
Privacy Masking	32ea, 4point Quadrangle zones - Color: Gray/Green/Red/Blue/Black/White - Mosaic

XNO-6123R



White Balance ATW / NarrowATW / AWC / Manual / Indoor / Outdoor LDC SupportIIII/stretch mode) Electronic Shutter Speed Minimur / Matin Kicke/2 - 1/12.000acc) Video Rotation Filp. Miron: Lalking video/90 / 2707) Analytics Classified biject type: Porton/Face/Vibied (Pipe: car/Dual track/motorcycle/bicycle/License plate. Shutpoor Detection/Shut / Minicur / Mating video/90 / 2707) Analytics Classified biject type: Porton/Face/Vibied (Pipe: car/Dual track/motorcycle/bicycle/License plate. Shutpoor Detection/Shut / Minicur / Shutpoor Detection/Shutpoor Detection/	Gain Control	Off / Max Gain / Manual
Electronic Shutter Speed Maximum / Maximum / Anti Hicker (2-1/12.00.0sec) Video Rotation FID, Mirror / Hallway Vex/69/12/071 Analytics Cassified Object type: Person/Face/Vehicler[Upre: car/hus/truck/motorcycle/bicycle]/License plate Artbritus: Vex/Hold (Type: car/bus/truck/motorcycle/bicycle) Analytics Cassified Object type: Person/Face/Vehicler[Upre: car/hus/truck/motorcycle/bicycle] Analytics vex/Hold (Type: car/hus/truck/motorcycle/bicycle) Support Detection Shade on A tengine - Defocus detection Analytics vex/Hold (Type: car/hus/truck/motorcycle/bicycle) - Defocus detection Analytics vex/Hold (Type: car/hus/truck/Hold (Type: car/	White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor
prefer shutter controllisated on Al engine) Video Rotation Filp, Mirror, Hallway view(90/270') Analytics Classified object type: Person/Stace/WhiteleType: car/bus/truck/motorcycle/bicycle/License plate Arthobures: whicelic Type: Person/Stace/WhiteleType: car/bus/truck/motorcycle/bicycle/ Support Decetionship Analytics Doject detection, Tima gripe - object detection, Tima line(Crossing/Direction), Virtual areal, oitering/Intrusion/Enter/Exit, Motior detection Alarm V/O 2 configurable io Oports, D CLY output/Max. SomA) Alarm V/O 2 configurable io Oports, D CLY output/Max. SomA) Alarm V/O 2 configurable io Oports, D CLY output/Max. SomA) Alarm V/O 2 configurable io Oports, D CLY output/Max. SomA) Alarm V/O 2 configurable io Oports, D CLY output/Max. SomA) Alarm V/O 2 configurable io Oports, D CLY output/Max. SomA) Alarm V/O 2 configurable io Oports, D CLY output/Max. SomA) Alarm V/O 2 configurable io Oports, D CLY output/Max. SomA) Alarm V/O 2 configurable io Oports, D CLY output/Max. DomA) Alarm Output -File uploade Alarm Output -File uploade Alarm Output -File uploade Alarm Output -File uploade Audio Cu Line out Alarm Output -File uploade Audio Cu Line out Rotal Shieledel RJ-45(10/100/1000BASE-T)	LDC	Support(Fill/stretch mode)
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Alarm Triggers Analytics. Network disconnect. Alarm input. App event. Time schedule, MQTT subscription Alarm Events When alarm trigger occurred File upolad(indge): email(FFP/SFTP - Notification: e-mail / FP/SFTP - Notification: e-mail / FP/SFTP - Notification: e-mail / FP/SFTP - Audio In Selectable(mic in/line in) Audio In Selectable(mic in/line in) Audio In Selectable(mic in/line in) Audio In Visel 90m(295.28ft) - Work	Analytics	Attributes: Vehicle(Type: car/bus/truck/motorcycle/bicycle) Support DetectionShot Analytics events based on AI engine - Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection Analytics events - Defocus detection, Tampering, Fog detection, Audio detection, Sound classification, Shock
dut Hen alarm trigger occurred Alarm Events When alarm trigger occurred File updad/ide of inage: e-mail/FP/SFP File updad/ide of inage: e-mail/FP/SFP File updad/ide of inage: e-mail/FP/SFP Network Audio In Selectable/ini/in Audio Qut Line out Rivewable Length WeselR 90m(295.28ft) Network Ethernet Network Video Compression A.25/H 2.64: Main/Baseline/High. M.JPEG Audio Cout Video Compression C.272: 16KBpz. 24Kbps. 32KBps. 40Kbps AvAC-LC: 48Kbps at 16KHz Smart Codec Manual(Sea area). WiseStreamIII(Based on Al engine) Bitrate Control M.265/H 2.64: CR or VBR Muttple streaming(Up to 10 profiles) Protocol Muttple streaming(Up to 10 profiles) Protocol Christ Strutter Streaming Onicast(20 users) / Multicast Muttple streaming(Up to 10 profiles) CPEP, Profiles) Protocol CPS/FTP.SKTP(CPU, PRTCPCP), RTCP(CP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, CPP, CFP, STPT) CVP. Unicast, MOTT <t< td=""><td>Alarm I/O</td><td>2 configurable I/O ports, DC 12V output(Max. 50mA)</td></t<>	Alarm I/O	2 configurable I/O ports, DC 12V output(Max. 50mA)
- File upload/ideo (Di): FTP/STP - Notification: e-mail e-Rocording: SD/SDHC/SXC or NAS recording at event triggers - Alarm output - Alarm output 	Alarm Triggers	Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription
Audio Out Line out IR Viewable Length WiselR 90m(295.28ft) Network Metal shielded RJ-45(10/100/1000BASE-T) Ethernet Metal shielded RJ-45(10/100/1000BASE-T) Video Compression H.265/H.264: Main/Baseline/High, MJPEG Audio Compression G.711 ur-law /G.726 Selectable G.726(ADPCM) 0KHz, G.711 BKHz G.726: Jokbps, 24Kbps, 32Kbps, 40Kbps Arc-LC: 48Kbps at 16KHz Smart Codec Manual(Sea area), WiseStreamIII(Based on Al engine) Bitrate Control Mainela K-264'H.265: CBR or VBR Multiple streaming(Up to 10 profiles) Streaming Nuiciast20 users) / Multicast Multiple streaming(Up to 10 profiles) Protocol IPv4, IPv6, TCP/IP, UDP/IP, RTP(ICDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, INTP, IMTP, IMTP, HTTP, SSL/TLS, DHCP, FTP/SFTP, SMTP, IMTP, IMTP, IMTP, HTTP, SSL/TLS, DHCP, FTP/SFTP, SMTP, IMTP, IMP, IGWP3, SMP41/v2C/v3(MIB-2), ARP, DNS, DDNS, QOS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT Application Programming Interface NNIF Profile S/G/TM Wisenet open platform Security Encrypted Firmware, Secure boot, Signed Firmware OS / Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware User authentication Digest Authenticaton, Prevent brute-force attacks Network authentication IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2) Scure	Alarm Events	 File upload(image): e-mail/FTP/SFTP File upload(video clip): FTP/SFTP Notification: e-mail Recording: SD/SDHC/SDXC or NAS recording at event triggers Alarm output Handover: PTZ preset, send message by HTTP/HTTPS/TCP Audio clip playback
R Viewable Length WiseIR 90m(295.28ft) Network Ethernet Ethernet Metal shielded RJ-45(10/100/1000BASE-T) Video Compression H.265/H.264: Main/Baseline/High, MJPEG Audio Compression G.711 u-law /G.726 Selectable Audio Compression G.711 u-law /G.726 Selectable Smart Codec Manual(Sea area), WiseStreamIII(Based on AI engine) Bitrate Control H.264/H.265: CBR or VBR MUPEG: VBR MUPEG: VBR Streaming Huckat/Quiser) / Multicast Multiple streaming(Up to 10 profiles) Protocol Protocol IPV4, IPV6, TCP/IP, UDP/IP, RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ITCMP, IGMP, SMMP4/V22/V3(MIB-2), ARP, DNS, DDNS, QoS, UPNP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT Application Programming Interface ONVIF Profile S/G/T/M Witsent UDP Unicast, MQTT Security Solvan Pitrut PaPi) OS / Firmware Protect Encrypted Firmware, Secure boot, Signed Firmware Secure Communication Digest Authenticaton, Prevent brute-force attacks Network authentication IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPV2) Secure Communication HTTPS, WSS(WebSocket Secure), SRTP Access Control IP-based access control	Audio In	Selectable(mic in/line in)
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MJPEG: VBRStreamingUnicast(20 users) / Multicast Multiple streaming(Up to 10 profiles)ProtocolIPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, IUDP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CP, SRTP(TCP, UDP Unicast), MQTTApplication Programming InterfaceONVIF Profile S/G/T/M 	Smart Codec	Manual(5ea area), WiseStreamIII(Based on AI engine)
Multiple streaming(Up to 10 profiles)ProtocolIPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP, ICMP, IGMP, SMMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTTApplication Programming InterfaceONVIF Profile S/G/T/M SUNAPI(HTTP API) Wisenet open platformSecurityOS / Firmware ProtectEncrypted Firmware, Secure boot, Signed FirmwareUser authenticationDigest Authenticaton, Prevent brute-force attacksNetwork authenticationIEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)Secure CommunicationHTTPS, WSS(WebSocket Secure), SRTPAccess ControlIP-based access controlData ProtectEncryption Credentials, Encrypt compress for live recording file exportAuditAccess / System / Event Log management	Bitrate Control	
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Secure CommunicationHTTPS, WSS(WebSocket Secure), SRTPAccess ControlIP-based access controlData ProtectEncryption Credentials, Encrypt compress for live recording file exportAuditAccess / System / Event Log management	User authentication	Digest Authenticaton, Prevent brute-force attacks
Access ControlIP-based access controlData ProtectEncryption Credentials, Encrypt compress for live recording file exportAuditAccess / System / Event Log management	Network authentication	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Data ProtectEncryption Credentials, Encrypt compress for live recording file exportAuditAccess / System / Event Log management	Secure Communication	HTTPS, WSS(WebSocket Secure), SRTP
Audit Access / System / Event Log management	Access Control	IP-based access control
	Data Protect	Encryption Credentials, Encrypt compress for live recording file export
Device ID Device certificate(Hanwha Vision Root CA)	Audit	Access / System / Event Log management

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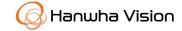


Secure Storage	TPM, HTPM(Hanwha trusted platform module), SDcard partition encrypt
Security Certificate	TPM with FIPS 140-2 level 2
General	
Webpage Language	English, Korean, Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek
Edge Storage	Micro SD/SDHC/SDXC 2slot Max. 1TB(512GBx2)
Memory	2GB RAM, 512MB Flash
Environmental & Electrical	
Operating Temperature / Humidity	-40°C~+60°C(-40°F~+140°F)
Operating remperature / humuny	* Start up should be done at above -30°C 0~100% RH(condensing) Humidity control /w AIR vent
Storage Temperature / Humidity	-50°C~+60°C(-58°F~+140°F) / 0~90% RH
Certification	IP66/67, IK10, NEMA4X, NEMA-TS 2(2.2.8, 2.2.9)
Input Voltage	PoE+(IEEE802.3at type2, Class4), 12VDC
Power Consumption	PoE+: Max 19.5W, typical 15.5W 12VDC: Max 16.5W, typical 13.1W Power redundancy failover
Mechanical	
Color / Material	White / Aluminum Window: Hard-coated window
RAL Code	RAL9003
Product Dimensions / Weight	ø93.4x298.4mm(ø3.68x11.75"), 2300g(5.07 lb)
Compatible Conduit hole / Gangbox	19.1mm(3/4")(M25) single, double, 4" octagon, 4" square
Hanging Mount (Dome)	SBP-160HMW1
Backbox	Included
Ceiling Mount (Assy)	SBP-150CMI/300CMI, SBP-300CMW1/900CMW, SBP-300CMTW, SBP-300CMTS
Wall Mount	SBP-300WMW/WMW1, SBP-390WMW2, SBP-160WMW1
Pole Mount	SBD-180PMW, SBP-300PMW2
Parapet Mount	SBP-300LMW, SBP-156LMW1
Corner Mount	SBP-300KMW1
Cabinet	SBP-300NBW
Certifications & Standards	
EMC	FCC 47 CFR 15 Subpart B Class A ICES-3(A)/NMB-3(A) CE/UKCA - EN 55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3 VCCI CISPR 32 Class A RCM AS/NZS CISPR 32 Class A KS C 9832 Class A, KS C 9835
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471
Environment	IEC/EN 63000 IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10 NEMA TS 2-2013(2.2.8, 2.2.9) NEMA 250 type 4X
DORI (EN62676-4 standard)	
DORI (EN62676-4 standard) Detect (25PPM/ 8PPF)	Wide: 73.8m(242.01ft) / Tele: 879.5m(2885.51ft)

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Recognize (125PPM/ 38PPF)

Identify (250PPM/ 76PPF)

Wide: 14.8m(48.40ft) / Tele: 175.9m(577.10ft) Wide: 7.4m(24.20ft) / Tele: 88.0m(288.55ft)



XNO-6123R 2MP AI IR Bullet Camera

CAD

Unit:mm [inch]

