X series XNO-A8084R





Network **Bullet**

XNO-A8084R

5MP AI IR Bullet Camera

Key Features

- 3.3~9.3mm (2.8x) motorized varifocal
- Dual NPU for AI-based Image enhancement
- Analytics events based on AI engine :

Object detection (Person/Face/Vehicle/License plate),

IVA (Virtual line/Area, Enter/Exit, Loitering, Direction, Intrusion),

Slip&Fall detection, Face mask detection,

Social distancing detection, Motion detection

• Business intelligence based on AI engine :

People/Vehicle/Crowd counting, Queue management, Heatmap

- Support BestShot and full attributes
- Support Dynamic Privacy Masking
- extremeWDR, WiseNR II (Based on AI engine),

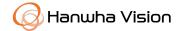
WiseStream(Based on AI engine)

- WiseIR: IR viewable length 40 m (131.23 ft)
- IP66, IP67, NEMA4X, IK10
- NEMA TS-2 (2.2.7.2-8, 2.2.8, 2.2.9)
- Support Wisepower (Power monitoring, ECO mode)
- Device certificate(Hanwha Vision Root CA),

Secure storage

(Secure element with FIPS 140-3 level3/CC EAL6+ certified), SBOM





XNO-A8084R

5MP AI IR Bullet Camera







Specifications

Video	
Imaging Device	1/2.8" CMOS
Resolution	2560x1920, 2560x1440, 1920x1080, 1600x1200, 1280x960, 1280x720, 1024x768, 800x600, 640x480, 640x360, 320x240, 320x180
Max. Framerate	H.265/H.264: Max. 30fps/25fps(60Hz/50Hz) MJPEG: Max. 30fps(@5MP Max. 5fps)
Min. Illumination	Color: 0.04Lux(F1.3, 1/30sec, 30IRE) BW: 0.004Lux(F1.3, 1/30sec, 30IRE), OLux(IR LED on)
Video Out	USB: Micro USB Type C for installation
Lens	
Focal Length (Zoom Ratio)	3.3~9.3mm(2.8x) motorized varifocal
Max. Aperture Ratio	F1.3(Wide)~F2.3(Tele)
Angular Field of View	H: 99°(Wide)~31°(Tele) V: 71°(Wide)~23°(Tele) D: 133°(Wide)~39°(Tele)
Min. Object Distance	0.5m(1.64ft)
Focus Control	Simple focus, manual
Lens Type	P-iris(IR corrected)
Pan / Tilt / Rotate	
Pan / Tilt / Rotate Range	0°~350° / 0°~90° / 0°~350°
Operational	
Camera Title	Displayed up to 85 characters
Day & Night	Auto(ICR)
Backlight Compensation	BLC, HLC, WDR, SSDR
Wide Dynamic Range	120dB
Digital Noise Reduction	SSNR V , WiseNR II (Based on AI engine)
Digital Image Stabilization	Support
Defog	Support
Motion Detection	8ea, 8point polygonal zones
Privacy Masking	32ea, 8point polygonal zones - Color: gray/green/red/blue/black/white/purple/yellow - Mosaic Dynamic Privacy Mask(Based on Al engine) - Color: gray/green/red/blue/black/white/purple/yellow - Mosaic
Gain Control	Off / Max Gain / Manual
White Balance	ATW / NarrowATW / AWC / Manual / Indoor / Outdoor
LDC	Support(Fill/Stretch mode)
Electronic Shutter Speed	Minimum / Maximum / Anti flicker(2~1/30,000sec) Prefer shutter control(Based on Al engine)
Doctor and execitivations are subject to	change without notice. The latest product information / specification can be found at Hanyba Vision com

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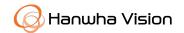




Video Rotation	Flip, mirror, hallway view(90°/270°)
Analytics	Classified object type: Person/Face/Vehicle(Type: car/bus/truck/motorcycle/bicycle)/License plate Attributes: Person(Gender, Clothing top/bottom color, Bag), Face(Age, Gender, Mask, Glasses), Vehicle(Type: car/bus/truck/motorcycle/bicycle, Color) Support BestShot
	Analytics events based on AI engine - Motion detection, Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear), Slip & fall detection, Face mask detection, Social distancing detection
	Analytics events - Defocus detection, Tampering, Shock detection, Audio detection
Business Intelligence	Based on Al engine: People/Vehicle/Crowd counting, Queue management, Heatmap
Alarm I/O	2 configurable I/O ports *Support extra alarm I/O via optional I/O box
Alarm Triggers	$Analytics, Network\ disconnection, Alarm\ input, Time\ schedule, MQTT\ subscription, Day/Night, Storage\ disruption$
Alarm Events	When alarm trigger occurred - 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(WAV, MP3) - MQTT: publication
Audio In	Selectable(mic in/line in)
Audio Out	Line out
Light Type	IR LED
Light Viewable Length	WiseIR 40m(131.23ft)
IR Wavelength	850nm
IR Wavelength Network	850nm
	850nm Metal shielded RJ-45(10/100BASE-T)
Network	
Network Ethernet	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High
Network Ethernet Video Compression	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps)
Network Ethernet Video Compression Audio Compression	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps)
Network Ethernet Video Compression Audio Compression Smart Codec	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps) WiseStream(Based on Al engine) H.264/H.265: CBR or VBR
Network Ethernet Video Compression Audio Compression Smart Codec Bitrate Control	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps) WiseStream(Based on AI engine) H.264/H.265: CBR or VBR MJPEG: VBR Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles, 3 virtual channel support) IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTPS, SSL/TLS, DHCP,
Network Ethernet Video Compression Audio Compression Smart Codec Bitrate Control Streaming	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps) WiseStream(Based on Al engine) H.264/H.265: CBR or VBR MJPEG: VBR Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles, 3 virtual channel support) IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour,
Network Ethernet Video Compression Audio Compression Smart Codec Bitrate Control Streaming Protocol	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps) WiseStream(Based on Al engine) H.264/H.265: CBR or VBR MJPEG: VBR Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles, 3 virtual channel support) IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog ONVIF Profile S/G/T/M SUNAPI(HTTP API)
Network Ethernet Video Compression Audio Compression Smart Codec Bitrate Control Streaming Protocol Application Programming Interface	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps) WiseStream(Based on Al engine) H.264/H.265: CBR or VBR MJPEG: VBR Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles, 3 virtual channel support) IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog ONVIF Profile S/G/T/M SUNAPI(HTTP API)
Network Ethernet Video Compression Audio Compression Smart Codec Bitrate Control Streaming Protocol Application Programming Interface Security	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps) WiseStream(Based on Al engine) H.264/H.265: CBR or VBR MJPEG: VBR Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles, 3 virtual channel support) IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform
Network Ethernet Video Compression Audio Compression Smart Codec Bitrate Control Streaming Protocol Application Programming Interface Security OS / Firmware Protect	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps) WiseStream(Based on Al engine) H.264/H.265: CBR or VBR MJPEG: VBR Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles, 3 virtual channel support) IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform
Network Ethernet Video Compression Audio Compression Smart Codec Bitrate Control Streaming Protocol Application Programming Interface Security OS / Firmware Protect User authentication	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps) WiseStream(Based on Al engine) H.264/H.265: CBR or VBR MJPEG: VBR Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles, 3 virtual channel support) IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform Encrypted Firmware, Secure boot, Signed Firmware Digest Authentication, Prevent brute-force attack
Network Ethernet Video Compression Audio Compression Smart Codec Bitrate Control Streaming Protocol Application Programming Interface Security OS / Firmware Protect User authentication Network authentication	Metal shielded RJ-45(10/100BASE-T) H.265/H.264: Main/Baseline/High MJPEG G.711(PCM): 8kHz(64Kbps) G.726(ADPCM): 8kHz(16/24/32/40Kbps) AAC-LC: 16kHz(48Kbps) OPUS: 48kHz(64Kbps) WiseStream(Based on Al engine) H.264/H.265: CBR or VBR MJPEG: VBR Unicast(20 users) / Multicast Multiple streaming(Up to 5 profiles, 3 virtual channel support) IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP/SFTP, SMTP(StartTLS), ICMP, IGMP, SMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, SRTP(TCP, UDP Unicast), CDP, MQTT, Syslog ONVIF Profile S/G/T/M SUNAPI(HTTP API) Hanwha Vision Open Platform Encrypted Firmware, Secure boot, Signed Firmware Digest Authentication, Prevent brute-force attack 802.1X Authentication(EAP-TLS, EAP-LEAP, EAP-PEAP MSCHAPv2)

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Device Certificate(Hanwha vision Root CA) Secure element, SDcard partition encrypt(AES-256) SBOM ETSI EN 303 645, Secure element(FIPS 140-3 level3, CC EAL6+) English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Micro SD/SDHC/SDXC 1slot 1TB 4GB RAM, 8GB eMMC -40°C~+60°C(-40°F~+140°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing) Humidity control with AIR vent
SBOM ETSI EN 303 645, Secure element(FIPS 140-3 level3, CC EAL6+) English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Micro SD/SDHC/SDXC 1slot 1TB 4GB RAM, 8GB eMMC -40°C~+60°C(-40°F~+140°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing)
ETSI EN 303 645, Secure element(FIPS 140-3 level3, CC EAL6+) English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Micro SD/SDHC/SDXC 1slot 1TB 4GB RAM, 8GB eMMC -40°C~+60°C(-40°F~+140°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing)
English, Korean, Simplified Chinese, Traditional Chinese, French, Italian, Spanish, German, Japanese, Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Micro SD/SDHC/SDXC 1slot 1TB 4GB RAM, 8GB eMMC -40°C~+60°C(-40°F~+140°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing)
Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Micro SD/SDHC/SDXC 1slot 1TB 4GB RAM, 8GB eMMC -40°C~+60°C(-40°F~+140°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing)
Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Micro SD/SDHC/SDXC 1slot 1TB 4GB RAM, 8GB eMMC -40°C~+60°C(-40°F~+140°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing)
Russian, Portuguese, Czech, Polish, Turkish, Dutch, Hungarian, Greek Micro SD/SDHC/SDXC 1slot 1TB 4GB RAM, 8GB eMMC -40°C~+60°C(-40°F~+140°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing)
4GB RAM, 8GB eMMC -40°C~+60°C(-40°F~+140°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing)
-40°C~+60°C(-40°F~+140°F) +74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing)
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+74°C(+165°F)(MAX) based on NEMA-TS 2(2.2.7) * Start up should be done at above -30°C 0~100%RH(Condensing)
-50°C~+60°C(-58°F~+140°F) / 0~90% RH
0.02 m²
IP66/IP67, NEMA4X, IK10, NEMA-TS 2(2.2.7.2-8, 2.2.8, 2.2.9)
PoE(IEEE802.3af, Class3)
PoE: Max. 9.4W, typical 7.0W Support Wisepower - Power monitoring(Max./Current/Avg.) - ECO mode
out to 1 at 1
White / Aluminum Hard-coated window
RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018) REACH(Regulation (EC) No. 1907/2006) Conflict mineral policy(Section 1502 of US Dodd Frank Act)
RAL9003
ø93.4x276.6mm(3.68x10.89"), 1,630g(3.59lb)
Single, double, 4" octagon, 4" square
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
UL 62368-1, CAN/CSA C22.2 NO. 62368-1 IEC/EN 62471
IEC/EN 63000 IEC/EN 60529 IP66/IP67, IEC/EN 62262 IK10, NEMA 250 Type 4X, NEMA-TS 2(2.2.7.2-8, 2.2.8, 2.2.9) IEC 60068-2-1, IEC 60068-2-2, IEC 60068-2-6, IEC 60068-2-14, IEC 60068-2-27, IEC 60068-2-78
SBP-160HMW1
Included
SBP-150CMI, SBP-300CMI, SBP-300CMW1, SBP-900CMW, SBP-300CMTW, SBP-300CMTS
SBP-180CMB, SBP-140CMB, SBP-180CMS, SBP-900CMP, SBP-300CMP, SBP-150CMP, SBP-C15P, SBI
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Wall Mount	SBP-160WMW1, SBP-400WMW, SBP-250WMW, SBP-300WMW, SBP-300WMW1
Pole Mount	SBD-180PMW, SBP-300PMW2
Corner Mount	SBP-156KMW, SBP-300KMW1
Parapet Mount	SBP-156LMW1, SBP-300LMW
Cabinet	SBP-150NBW, SBP-300NBW
Conduit Adaptor	SBP-060BA
Interface Box	SPM-4210
Other Compatible Models	SPP-C7400, SBP-115PFA
DORI (EN62676-4 standard)	
Detect (25PPM/ 8PPF)	Wide: 43.7m(143.47ft) / Tele: 184.6m(605.71ft)
Observe (63PPM/ 19PPF)	Wide: 17.5m(57.39ft) / Tele: 73.8m(242.29ft)
Recognize (125PPM/ 38PPF)	Wide: 8.7m(28.69ft) / Tele: 36.9m(121.14ft)
Identify (250PPM/ 76PPF)	Wide: 4.4m(14.35ft) / Tele: 18.5m(60.57ft)

X series XNO-A8084R



XNO-A8084R

5MP AI IR Bullet Camera







CAD Unit:mm [inch]

