



Network

Bullet

XNO-A8084R

5MP AI IR Bullet Camera

EAC

UL
LISTED

CE

FC

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

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Specifications

Video		
Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution		1280x960, 1280x720, 1920x1080, 640x360, 640x480, 320x180, 800x600, 2560x1440, 1600x1200, 1024x768, 320x240, 2560x1920
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@5MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.04
	BW(1/30sec, 30IRE)	0.004
Video Out		USB: Micro USB Type C
Lens		
Focal Length (mm)		3.3~9.3
Zoom Ratio	Optical	2.8x
Max Aperture Ratio (F number)	Wide	1.3
	Tele	2.3
Angular Field of View	Horizontal	99°~31°
	Vertical	71°~23°
	Diagonal	133°~39°
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	Pan	0°~350°
	Tilt	0°~90°
	Rotate	0°~350°
Operational		
Day & Night		Auto(ICR)
Backlight Compensation		WDR, BLC, HLC, SSDR

Operational

Wide Dynamic Range (dB)		120
Digital Noise Reduction		SSNR V , WiseNR II (Based on AI engine)
Digital Image Stabilization		Support
Defog		Support
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	8point Polygonal zones
	Color / Option	Blue, Purple, Mosaic, Gray, Black, White, Green, Yellow, Red
	Dynamic Privacy Masking: Color / Option	Blue, Red, Mosaic, Black, Gray, Green, Yellow, Purple, White
Gain Control		Max gain, Off, Manual
White Balance		Outdoor, ATW, Indoor, Manual, NarrowATW, AWC
LDC		Support(Fill/stretch mode)
Electronic Shutter	Mode	Prefer shutter control(Based on AI engine), Maximum, Anti flicker, Minimum
	Speed Range	2~1/30,000sec
Video Rotation		Flip, Hallway view(90°/270°), Mirror
Alarm Interface	In/Out	2 configurable I/O ports
	Others	Support extra alarm I/O via optional I/O box
Alarm Triggers		Analytics, Storage disruption, MQTT subscription, Alarm input, Day/Night, Network disconnect, Time schedule
Alarm Events When Alarm Trigger Occurred		Handover: PTZ preset, send message by HTTP/HTTPS/TCP, MQTT: publication, Notification: e-mail, Audio clip playback, File upload(image): e-mail/FTP/SFTP, File upload(video clip): FTP/SFTP, Alarm output, Recording: SD/SDHC/SDXC or NAS recording at event triggers
Audio In		Selectable(mic in/line in)
Audio Out		Line out
Light Type		IR LED
Light Viewable Length	IR	WiseIR 40m(131.23ft)
IR Wavelength		850nm

Analytics

Classified Object Type		License plate, Face, Person, Vehicle
Attributes	Person	Gender, Bag, Upper/Lower clothes color
	Vehicle	Type(car, bus, truck, motorcycle, bicycle), Color
	Face	Gender, Glasses, Face mask, Age
Thumbnail		BestShot

Analytics

Analytics Events	Based on AI Engine	Face mask detection, Slip & fall detection, Motion detection, Social distancing detection, Virtual line(Crossing/Direction), Object detection, Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear)
	Normal	Audio detection, Shock detection, Tampering, Defocus detection
Business Intelligence	Based on AI Engine	Crowd counting, Heatmap, Queue management, Vehicle counting, People counting

Network

Ethernet		Metal shielded RJ-45(10/100BASE-T)
Video Compression		H.265/H.264: Main/Baseline/High, MJPEG
Audio Compression		G.726(ADPCM): 8KHz(16/24/32/40Kbps), G.711(PCM): 8KHz(64Kbps), AAC-LC: 16KHz(48Kbps), OPUS: 48KHz(64Kbps)
Smart Codec		WiseStream(Based on AI engine)
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 5 profiles, 3 virtual channel support
Protocol		CDP, RTP(UDP), IPv4, HTTPS, FTP, NTP, TCP/IP, ARP, DHCP, SMTP(StartTLS), RTCP, IPv6, UDP/IP, Bonjour, DNS, SNMPv1/v2c/v3(MIB-2), RTP(TCP), SSL/TLS, QoS, DDNS, IGMP, HTTP, SFTP, Syslog, UPnP, LLDP, MQTT, RTSP, ICMP, SRTP(TCP, UDP Unicast)
Application Programming Interface	ONVIF	M, G, S, T
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		Support

Security

OS / Firmware Protect		Secure boot, Signed firmware, Encrypted firmware
User authentication		Digest authentication, Prevent brute-force attack
Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication		SRTP, WSS(WebSocket Secure), HTTPS
Access Control		IP-based access control, Auto logout, MAC-based access control
Data Protect		Encrypt compress for live recording file export, Encryption credentials
Audit		Access / System / Event Log management
Device ID		Device certificate(Hanwha Vision Root CA)
Secure Storage		SDcard partition encrypt(AES-256), Secure element
Supply Chain Security		SBOM
Security Certificate		ETSI EN 303 645, Secure element(FIPS 140-3 level3, CC EAL6+)

General

Memory	RAM	4GB
	Flash	8GB eMMC
Edge Storage	Micro SD/SDHC/SDXC	Max. 1TB x 1slot

Environmental & Electrical

Operating Condition	Temperature	-40°C~+60°C(-40°F~+140°F)
	Humidity	0~100% RH(condensing)
	Others	+74°C(+165°F)(Max) based on NEMA-TS 2(2.2.7), Humidity control with AIR vent, Start up should be done at above -30°C
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
EPA(Effective Projected Area)		0.02m ²
Input Voltage		PoE(IEEE802.3af, Class3)
Power Consumption	PoE	Max. 9.4W, typical 7.0W
Wisepower		Power monitoring, ECO mode

Mechanical

Color		White
Material		Hard-coated window, Aluminum
Material Management	Declaration	Conflict mineral policy(Section 1502 of US Dodd Frank Act), REACH(Regulation (EC) No. 1907/2006), RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018)
RAL Code		RAL9003
Product Dimensions		ø93.4x276.6mm(3.68x10.89")
Product Weight		1,630g(3.59lb)
Compatible Conduit Hole		Support conduit compatibility via optional adaptor
Compatible Gang Box		Double, Single, 4" Octagon, Square

Certifications & Standards

EMC	VCCI CISPR 32 Class A, ICES-3(A)/NMB-3(A), FCC 47 CFR 15 Subpart B Class A, RCM AS-NZS CISPR 32 Class A, CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, KS C 9832 Class A, KS C 9835
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
Environment	IEC 60068-2-1, IEC 60068-2-6, NEMA 250 type 4X, IEC/EN 63000, IEC 60068-2-27, IEC 60068-2-78, IEC 60068-2-14, IEC 60529 IP67, IEC 62262 IK10, IEC 60529 IP66, NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9), IEC 60068-2-2

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)

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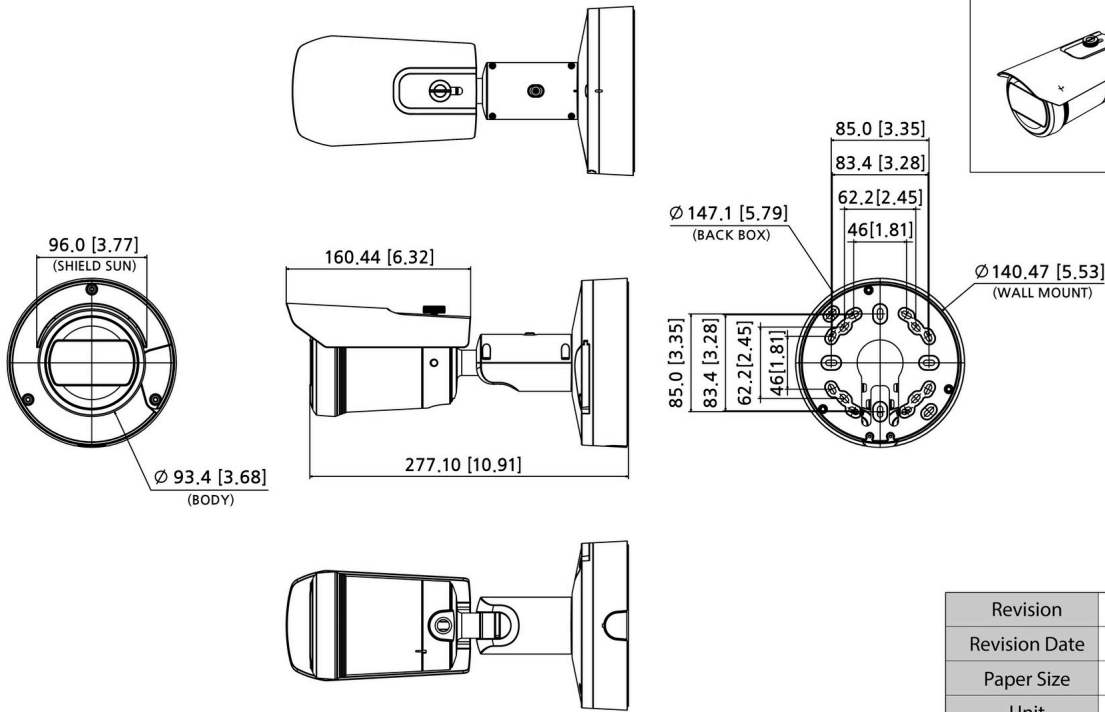
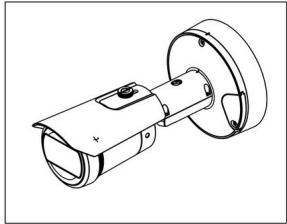


CAD

Unit: mm [inch]

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Reference image



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Revision	V1.0
Revision Date	25/04/28
Paper Size	A0
Unit	mm [inch]
Scale	1:1