







XNO-A9084R

8MP AI IR Bullet Camera



- 4.4~9.3mm (2.1x) motorized varifocal
- 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

• Business intelligence based on AI engine :

People/Vehicle/Crowd counting, Queue management, Heatmap

- Support BestShot and full attributes
- Support Dynamic Privacy Masking
- AI-based Image enhancement
- $\bullet \ \text{extremeWDR, WiseNR II (Based on Al engine), WiseStream (Based on Al engine)}\\$
- 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	1/1.8"
	Type	CMOS
Resolution		1280x960, 1280x720, 320x240, 2592x1944, 2688x1512, 640x360, 640x480, 320x180, 3072x1728, 800x600, 3328x1872, 3840x2160, 2560x1440, 1024x768, 1600x1200, 1920x1080
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@8MP 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)		4.4~9.3
Zoom Ratio	Optical	2.1x
Max Aperture Ratio (F	Wide	1.3
number)	Tele	2.15
Angular Field of View	Horizontal	113°~47°
	Vertical	58°~26°
	Diagonal	138°~54°
Min. Object Distance		0.5m(1.64ft)
Focus Control		Manual, Simple focus
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)

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BLC, SSDR, WDR, HLC

Backlight Compensation





Operational		
Wide Dynamic Range (dB)		120
Digital Noise Reduction		WiseNR II (Based on Al engine), SSNR V
Digital Image Stabilization		Support
Defog		Support
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	8point Polygonal zones
	Color / Option	Yellow, Green, Mosaic, Purple, White, Black, Gray, Blue, Red
	Dynamic Privacy Masking: Color / Option	Gray, Green, Red, Mosaic, Black, Blue, Yellow, White, Purple
Gain Control		Off, Manual, Max gain
White Balance		AWC, ATW, Manual, NarrowATW, Outdoor, Indoor
LDC		Support(Fill/stretch mode)
Electronic Shutter	Mode	Prefer shutter control(Based on Al engine), Anti flicker, Maximum, Minimum
	Speed Range	2~1/30,000sec
Video Rotation		Hallway view(90°/270°), Flip, Mirror
Alarm Interface	In/Out	2 configurable I/O ports
	Others	Support extra alarm I/O via optional I/O box
Alarm Triggers		Time schedule, MQTT subscription, Analytics, Alarm input, Storage disruption, Day/Night, Network disconnect
Alarm Events When Alarm Trigger Occurred		File upload(image): e-mail/FTP/SFTP, Audio clip playback, Alarm output, Notification: e-mail, Handover: PTZ preset, send message by HTTP/HTTPS/TCP, MQTT: publication, File upload(video clip): FTP/SFTP, 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		Face, Vehicle, Person, License plate
Attributes	Person	Gender, Bag, Upper/Lower clothes color
	Vehicle	Type(car, bus, truck, motorcycle, bicycle), Color
	Face	Gender, Face mask, Glasses, Age
Thumbnail		BestShot





Analytics		
Analytics Events	Based on Al Engine	Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear), Motion detection, Social distancing detection, Virtual line(Crossing/Direction), Slip & fall detection, Object detection, Face mask detection
	Normal	Shock detection, Tampering, Defocus detection, Audio detection
Business Intelligence	Based on AI Engine	People counting, Heatmap, Queue management, Vehicle counting, Crowd counting
Network		
Ethernet		Metal shielded RJ-45(10/100BASE-T)
Video Compression		H.265/H.264: Main/Baseline/High, MJPEG
Audio Compression		G.711(PCM): 8KHz(64Kbps), G.726(ADPCM): 8KHz(16/24/32/40Kbps), 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	3 virtual channel support, Up to 5 profiles
Protocol		ARP, RTP(UDP), IPv4, HTTPS, FTP, NTP, TCP/IP, 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, CDP, LLDP, MQTT, RTSP, ICMP, SRTP(TCP, UDP Unicast)
Application	ONVIF	M, T, G, S
Programming Interface	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		Support
Security		
OS / Firmware Protect		Encrypted firmware, Secure boot, Signed firmware
User authentication		Digest authentication, Prevent brute-force attack
Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication		WSS(WebSocket Secure), HTTPS, SRTP
Access Control		IP-based access control, Auto logout, MAC-based access control
Data Protect		Encryption credentials, Encrypt compress for live recording file export
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

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Environmental & El	ectrical	
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)		0.02m²
Input Voltage		PoE(IEEE802.3af, Class3)
Power Consumption	PoE	Max. 11.2W, typical 8.4W
Wisepower		ECO mode, Power monitoring
Mechanical		
Color		White
Material		Aluminum, Hard-coated window
Material Management	Declaration	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)
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		4" Octagon, Square, Single, Double
Certifications & Sta	ndards	
EMC		VCCI CISPR 32 Class A, FCC 47 CFR 15 Subpart B Class A, KS C 9832 Class A, KS C 9835, CE/UKCA - EN55032 Class A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, ICES-3(A)/NMB-3(A), RCM AS-NZS CISPR 32 Class A
Safety		UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
Environment		IEC/EN 63000, IEC 60529 IP66, NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9), IEC 60068-2-2, IEC 60068-2-7, IEC 60068-2-7, IEC 60068-2-1, IEC 60068-2-6, NEMA 250 type 4X, IEC 60068-2-14, IEC 60529 IP67, IEC 62262 IK10
DORI (EN62676-4 s	standard)	
Detect (25PPM/8PPF)	Wide	50.8m(166.77ft)
	Tele	176.6m(579.49ft)
Observe (63PPM/ 19PPF)	Wide	20.3m(66.71ft)
	Tele	70.7m(231.80ft)
Recognize (125PPM/ 38PPF)	Wide	10.2m(33.35ft)
	Tele	35.3m(115.90ft)
Identify (250PPM/ 76PPF)	Wide	5.1m(16.68ft)
	Tele	17.7m(57.95ft)

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CAD Unit: mm [inch]

