



Network

Dome

XNV-A9084R

8MP AI IR Vandal Dome Camera



Key Features

- 4.4~9.3mm (2.1x) 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)
- Use recycled plastic
- 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 number)	Wide	1.3
	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°~360°
	Tilt	0°~75°
	Rotate	0°~355°
Operational		
Day & Night		Auto(ICR)
Backlight Compensation		BLC, SSDR, WDR, HLC

Operational

Wide Dynamic Range (dB)		120
Digital Noise Reduction		WiseNR II (Based on AI 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 AI 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	Upper/Lower clothes color, Gender, Bag
	Vehicle	Color, Type(car, bus, truck, motorcycle, bicycle)
	Face	Face mask, Age, Glasses, Gender
Thumbnail		BestShot

Analytics

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

Network

Ethernet		Metal shielded RJ-45(10/100BASE-T)
Video Compression		H.265/H.264: Main/Baseline/High, MJPEG
Audio Compression		AAC-LC: 16KHz(48Kbps), G.726(ADPCM): 8KHz(16/24/32/40Kbps), G.711(PCM): 8KHz(64Kbps), 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		SSL/TLS, RTP(UDP), SRTP(TCP, UDP Unicast), IPv4, HTTPS, FTP, NTP, TCP/IP, ARP, DHCP, SMTP(StartTLS), RTCP, IPv6, UPnP, CDP, LLDP, MQTT, RTSP, UDP/IP, Bonjour, DNS, SNMPv1/v2c/v3(MIB-2), RTP(TCP), ICMP, QoS, DDNS, IGMP, HTTP, SFTP, Syslog
Application Programming Interface	ONVIF	T, G, M, S
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
Direct Cloud Connection		Support

Security

OS / Firmware Protect		Encrypted firmware, Signed firmware, Secure boot
User authentication		Digest authentication, Prevent brute-force attack
Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication		SRTP, HTTPS, WSS(WebSocket Secure)
Access Control		IP-based access control, MAC-based access control, Auto logout
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

Environmental & Electrical

Operating Condition	Temperature	-40°C~+50°C(-40°F~+122°F)
	Humidity	0~100% RH(condensing)
	Others	Start up should be done at above -30°C, Humidity control with AIR vent, +74°C(+165°F) (Max) based on NEMA-TS 2(2.2.7)
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. 11.2W, typical 8.4W
Wisepower		Power monitoring, ECO mode

Mechanical

Color		White
Material		Aluminum, Hard-coated dome
Material Management	Declaration	RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018), Conflict mineral policy(Section 1502 of US Dodd Frank Act), REACH(Regulation (EC) No. 1907/2006)
	Recycle Rate	Recycled plastic: 4.49%
RAL Code		RAL9003
Product Dimensions		ø160x118mm(6.30x4.65")
Product Weight		1,220g(2.69lb)
Compatible Conduit Hole		12.7mm(1/2")(M20)
Compatible Gang Box		Square, 4" Octagon, Single, Double

Certifications & Standards

EMC	FCC 47 CFR 15 Subpart B Class A, VCCI CISPR 32 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, ICES-3(A)/NMB-3(A)
Safety	UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
Environment	NEMA TS 2-2013 (2.2.7, 2.2.8, 2.2.9), IEC/EN 63000, IEC 60529 IP66, IEC 60068-2-2, IEC 60068-2-27, IEC 60068-2-78, 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 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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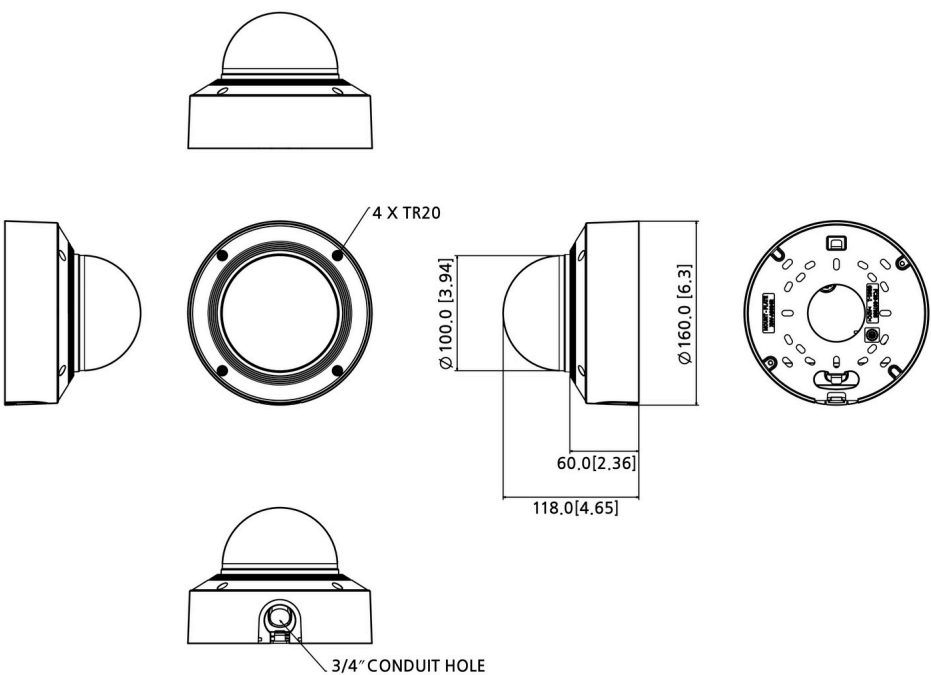
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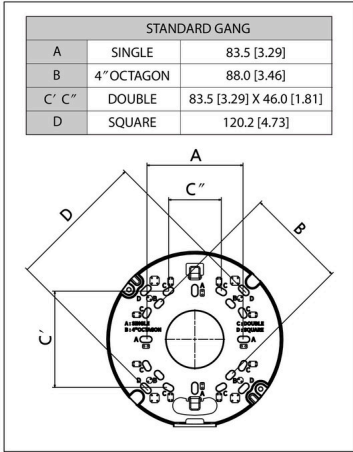
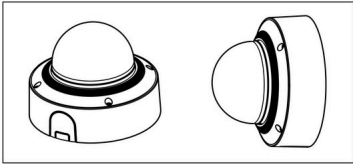
CAD

Unit: mm [inch]

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Reference image



Revision	V1.0
Revision Date	25/05/30
Paper Size	A0
Unit	mm [inch]
Scale	1:1

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