X series XND-A9084RV









XND-A9084RV

8MP AI IR Dome Camera











- 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)
- IP52, IK10
- 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"
	Туре	CMOS
Resolution		320x240, 1920x1080, 2592x1944, 2688x1512, 640x360, 640x480, 320x180, 3072x1728800x600, 3328x1872, 3840x2160, 2560x1440, 1600x1200, 1024x768, 1280x960, 1280x720
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		Simple focus, Manual
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)
Baddish Communities		THIS DIS CODD WDD

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HLC, BLC, SSDR, WDR

Backlight Compensation





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





Analytics		
Analytics Events	Based on Al Engine	Social distancing detection, Face mask detection, Motion detection, Virtual area(Loitering/Intrusion/Enter/Exit/Appear/Disappear), Virtual line(Crossing/Direction) Slip & fall detection, Object detection
	Normal	Defocus detection, Audio detection, Shock detection, Tampering
Business Intelligence	Based on AI Engine	Crowd counting, People counting, Queue management, Heatmap, Vehicle 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), OPUS: 48KHz(64Kbps), AAC-LC: 16KHz(48Kbps)
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		QoS, 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, DDNS, IGMP, HTTP, SFTP, Syslog, UPnP, CDP, LLDP, MQTT, RTSP, ICMP, SRTP(TCP, UDP Unicast)
Application	ONVIF	M, S, G, T
Programming Interface	Others	Hanwha Vision Open Platform, SUNAPI(HTTP API)
Direct Cloud Connection		Support
Security		
OS / Firmware Protect		Signed firmware, Encrypted firmware, Secure boot
User authentication		Prevent brute-force attack, Digest authentication
Network authentication		IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
Secure Communication		SRTP, WSS(WebSocket Secure), HTTPS
Access Control		Auto logout, MAC-based access control, IP-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		Secure element, SDcard partition encrypt(AES-256)
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	-10°C~+50°C(+14°F~+122°F)
	Humidity	0~100% RH(condensing)
	Others	Humidity control with AIR vent
Storage Condition	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
EPA(Effective Projected Area)		0.02 m²
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 dome , PC(Polycarbonate)
Material Management	Declaration	REACH(Regulation (EC) No. 1907/2006), RoHS(EU RoHS directive 2011/65/EU and IEC/EN 63000:2018), Conflict mineral policy(Section 1502 of US Dodd Frank Act)
	Recycle Rate	Recycled plastic: 10.63%
RAL Code		RAL9003
Product Dimensions		ø160x118mm(6.30x4.65")
Product Weight		1,020g(2.25lb)
Compatible Conduit Hole		12.7mm(1/2")(M20)
Compatible Gang Box		4" Octagon, Double, Square, Single
Certifications & Sta	ndards	
EMC		KS C 9832 Class A, KS C 9835, RCM AS-NZS CISPR 32 Class A, CE/UKCA - EN55032 Clas A, EN 50130-4, EN 61000-3-2, EN 61000-3-3, ICES-3(A)/NMB-3(A), FCC 47 CFR 15 Subpart B Class A, VCCI CISPR 32 Class A
Safety		UL 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
Environment		IEC 60529 IP52, IEC/EN 63000, IEC 60068-2-2, IEC 60068-2-27, IEC 60068-2-78, IEC 60068-2-1, IEC 60068-2-6, IEC 60068-2-14, 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]

