



Network

Dome

# XND-9082RF

4K IR Dome Camera



## Key Features

- 4K resolution
- 2.8~8.4mm(3x) motorized varifocal
- 0.05Lux@F1.2 (Color), 0Lux (B/W, IR LED on)
- Max.30fps@4K (H.265/H.264)
- IR viewable length 40m
- Day & Night (ICR), extreme WDR (120dB)
- DIS with built-in Gyro sensor
- Video Analytics  
(Defocus, Directional detection, Audio detection, Shock detection, Face/Upper body detection)
- Dual SD slots (Max. 1TB)
- Modular structure, PoE support
- IP52, Plenum rate, IK10

## Compatible Devices



SPB-FCD85W

## XND-9082RF

4K IR Dome Camera



### Specifications

Video		
Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution	3840x2160, 3328x1872, 3072x1728, 2688x1520, 2592x1944, 1920x1080, 1600x1200, 1280x1024, 1280x960, 1280x720, 1024x768, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240	
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@8MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.05
	BW(1/30sec, 30IRE)	0.005
Video Out	CVBS: 1.0 Vp-p / 75Ω composite for installation. USB: Micro USB Type B	
Lens		
Focal Length (mm)	2.8~8.4	
Zoom Ratio	Optical	3x
Max Aperture Ratio (F number)	Wide	1.2
	Tele	2.8
Angular Field of View	Horizontal	114°~40°
	Vertical	62°~22°
	Diagonal	133°~46°
Min. Object Distance	0.7m(2.23ft)	
Focus Control	Simple focus	
Lens Type	DC auto iris(IR corrected), P iris(IR corrected)	
Pan / Tilt / Rotate		
Pan / Tilt / Rotate Range	Pan	0°~360°
	Tilt	0°~85°
	Rotate	0°~355°
Operational		
Day & Night	Auto(ICR)	

## Operational

<b>Backlight Compensation</b>		BLC, HLC, WDR, SDR
<b>Wide Dynamic Range (dB)</b>		120
<b>Digital Noise Reduction</b>		SSNR V
<b>Digital Image Stabilization</b>		Support(built-in gyro sensor)
<b>Defog</b>		Support
<b>Motion Detection</b>	Quantity	8ea
	Shape	8point Polygonal zones
<b>Privacy Masking</b>	Quantity	32ea
	Shape	4point Quadrangle zones
	Color / Option	Gray, Green, Red, Blue, Black, White, Mosaic
<b>Gain Control</b>		Off, Max gain, Manual
<b>White Balance</b>		ATW, NarrowATW, AWC, Manual, Indoor, Outdoor
<b>LDC</b>		Support(Fill/stretch mode)
<b>Electronic Shutter</b>	Mode	Minimum, Maximum, Anti flicker, Prefer shutter control
	Speed Range	2~1/12,000sec
<b>Video Rotation</b>		Flip, Mirror, Hallway view(90°/270°)
<b>Alarm Interface</b>	In/Out	2 configurable I/O ports
<b>Alarm Triggers</b>		Analytics, Network disconnect, Alarm input, App event, Time schedule, MQTT subscription
<b>Alarm Events When Alarm Trigger Occurred</b>		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, MQTT: publication
<b>Audio In</b>		Selectable(mic in/line in)
<b>Audio Out</b>		Line out
<b>Light Type</b>		IR LED
<b>Light Viewable Length</b>	IR	WiseIR 40m(131.23ft)
<b>IR Wavelength</b>		850nm

## Analytics

<b>Analytics Events</b>	Normal	Defocus detection, Motion detection, Tampering, Fog detection, Face/upper body detection, Audio detection, Sound classification, Shock detection, Virtual area(Lotering, Intrusion, Enter/Exit, Appear/Disappear), Virtual line(Crossing, Direction) , Digital auto tracking
<b>Business Intelligence</b>	Normal	People counting, Queue management, Heatmap

## Network

<b>Ethernet</b>	Metal shielded RJ-45(10/100/1000BASE-T)
<b>Video Compression</b>	H.265/H.264: Main/Baseline/High, MJPEG

## Network

<b>Audio Compression</b>		G.711 u-law /G.726 selectable,G.726(ADPCM) 8kHz,G.711 8kHz, G.726: 16kbps,24kbps,32kbps,40kbps, AAC-LC: 48kbps at 16kHz
<b>Smart Codec</b>		Manual, WiseStream II
<b>Bitrate Control</b>		H.265/H.264: CBR or VBR, MJPEG: VBR
<b>Streaming</b>	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 10 profiles
<b>Protocol</b>		IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, SMTP, ICMP, IGMP, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT
<b>Application Programming Interface</b>	ONVIF	S, G, T
	Others	SUNAPI(HTTP API), Hanwha Vision Open Platform
<b>Direct Cloud Connection</b>		Support

## Security

<b>OS / Firmware Protect</b>	Encrypted firmware, Secure boot, Signed firmware
<b>User authentication</b>	Digest authentication, Prevent brute-force attack
<b>Network authentication</b>	IEEE 802.1X(EAP-TLS, EAP-LEAP, EAP-PEAP, MSCHAPv2)
<b>Secure Communication</b>	HTTPS, WSS(WebSocket Secure), SRTP
<b>Access Control</b>	IP-based access control
<b>Data Protect</b>	Encryption credentials, Encrypt compress for live recording file export
<b>Audit</b>	Access / System / Event Log management
<b>Device ID</b>	Device certificate(Hanwha Vision Root CA)
<b>Secure Storage</b>	HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt(AES-256)
<b>Security Certificate</b>	CyberSecurity assurance program UL CAP(UL 2900-2-3 L2)

## General

<b>Memory</b>	RAM	4GB
	Flash	512MB
<b>Edge Storage</b>	Micro SD/SDHC/SDXC	Max. 512GB x 2slot(Total 1TB)
<b>Edge Storage(OnCloud)</b>	Micro SD/SDHC/SDXC	Max. 1TB x 2slots (Total 2TB) *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording.

## Environmental & Electrical

<b>Operating Condition</b>	Temperature	-25°C~+60°C(-13°F~+140°F)
	Humidity	0~95% RH(non-condensing)
<b>Storage Condition</b>	Temperature	-50°C~+60°C(-58°F~+140°F)
	Humidity	0~90% RH(non-condensing)
<b>Input Voltage</b>		PoE(IEEE802.3af, Class3), 12VDC

### Environmental & Electrical

Power Consumption	PoE	Max. 12.95W, typical 10.7W
	12VDC	Max. 11.5W, typical 9W

### Mechanical

Color	White
Material	Aluminum, Hard-coated dome
RAL Code	RAL9003
Product Dimensions	ø205x163mm(8.07x6.42")
Product Weight	1,950g(4.29lb)
Compatible Conduit Hole	19.1mm(3/4")(M25), 12.7mm(1/2")(M20)

### Certifications & Standards

EMC	FCC 47 CFR 15 Subpart B Class A, ICES-3(A)/NMB-3(A), CE/UKCA - EN55032 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
Safety	UL 60950-1, CAN/CSA C22.2 NO. 60950-1, IEC 62471
Environment	IEC/EN 63000, IEC 60529 IP52, IEC 62262 IK10

### DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	49.9m(163.63ft)
	Tele	211.0m(692.28ft)
Observe (63PPM/ 19PPF)	Wide	19.9m(65.45ft)
	Tele	84.4m(276.91ft)
Recognize (125PPM/ 38PPF)	Wide	10.0m(32.73ft)
	Tele	42.2m(138.46ft)
Identify (250PPM/ 76PPF)	Wide	5.0m(16.36ft)
	Tele	21.1m(69.23ft)

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**CAD**

Unit: mm [inch]

