Hanwha Vision



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

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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. Preview and installation ONLY. Requires WiFi dongle.

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)

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Operational

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

Analytics Events	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
Business Intelligence	Normal	People counting, Queue management, Heatmap

Network

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

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Network

Audio Compression		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
Smart Codec		Manual, WiseStream II
Bitrate Control		H.265/H.264: CBR or VBR, MJPEG: VBR
Streaming	Unicast	Up to 20 users
	Multicast	Support
	Multiple Streaming	Up to 10 profiles
Protocol		IPv4, IPv6, TCP/IP, UDP/IP, RTP(UDP), RTP(TCP), RTCP, RTSP, NTP, HTTP, HTTPS, SSL/TLS, DHCP, FTP, SFTP, SMTP, ICMP, IGMPv2, SNMPv1/v2c/v3(MIB-2), ARP, DNS, DDNS, QoS, UPnP, Bonjour, LLDP, CDP, SRTP(TCP, UDP Unicast), MQTT
Application Programming Interface	ONVIF	S, G, T
	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	HTTPS, WSS(WebSocket Secure), SRTP
Access Control	IP-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	HTPM(Hanwha Trusted Platform Module), SDcard partition encrypt(AES-256)
Security Certificate	CyberSecurity assuarance program UL CAP(UL 2900-2-3 L2)

General

Memory	RAM	4GB
	Flash	512MB
Edge Storage	Micro SD/SDHC/SDXC	Max. 512GB x 2slot(Total 1TB)
Edge Storage(OnCloud)	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

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

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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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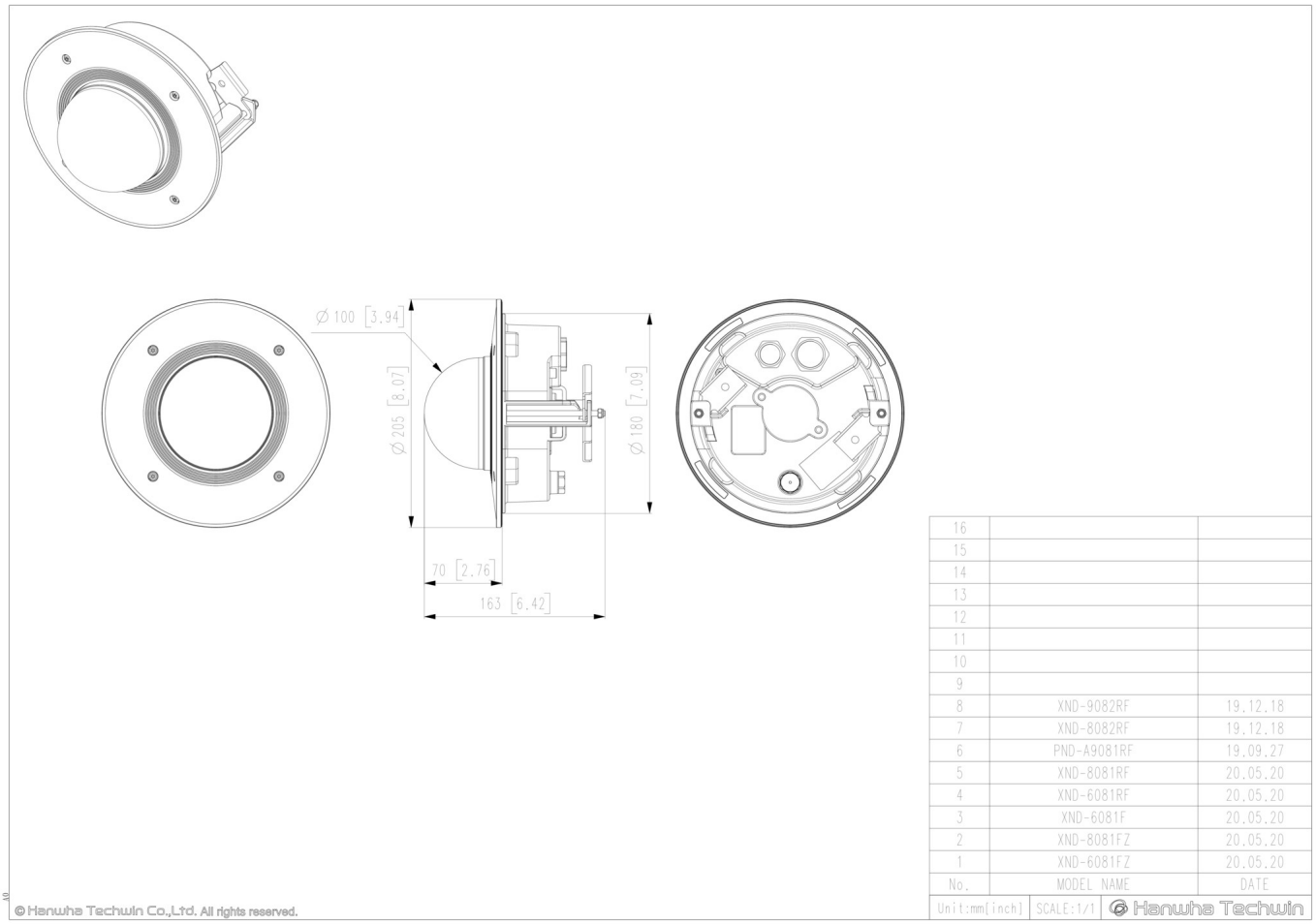
CAD

Unit: mm [inch]



No.	MODEL NAME	DATE
16		
15		
14		
13		
12		
11		
10		
9		
8	XND-9082RF	19.12.18
7	XND-8082RF	19.12.18
6	PND-A9081RF	19.09.27
5	XND-8081RF	20.05.20
4	XND-6081RF	20.05.20
3	XND-6081F	20.05.20
2	XND-8081FZ	20.05.20
1	XND-6081FZ	20.05.20

Unit:mm[inch] | SCALE:1/1 | Hanwha Techwin

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Compatible Devices



SPB-FCD85W

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