



Network

Dome

QND-C8023R

5MP IR Indoor Dome AI camera



Key Features

- 5MP Image Resolution
- 4mm Focal Length
- 30fps Max. Framerate
- 30m IR Length
- Wisenet Q network indoor dome camera
- CloudConnector Compatible – Connects easily with [HealthPro](#), [OnCloud](#), [SightMind](#)
- 5MP @ 30fps, fix lens 4mm (H:80°/V: 59°)
- triple codec H.265/H.264/MJPEG with Wisestream III (Based on AI engine)
- WiseNR II (Based on AI engine)
- WDR 120dB, IR viewable length 30m(98.42ft)
- Built-in Mic
- WiseMD based on AI engine
- Classified object type: Person/Vehicle (vehicle type: car/bus/truck/motorcycle/bicycle)
- IVA events based on AI engine: Virtual line (Crossing/Direction)
- Virtual area (Loitering/Intrusion/Enter/Exit/(Dis)Appear)
- defocus detection
- hallway View
- built-in SD card slot (1x256GB)
- video analytics
- USB for easy installation, open platform
- PoE
- Operating temperature -10°C~+45°C(+14°F ~ +113°F)
- white color
- * Alarm I/O is supported through an optional cable (SPP-C7200)

QND-C8023R

5MP IR Indoor Dome AI camera



Specifications

Video

Imaging Device	Size	1/2.8"
	Type	CMOS
Resolution		2592x1944, 2560x1440, 1920x1080, 1280x960, 1280x720, 800x600, 800x448, 720x576, 720x480, 640x480, 640x360, 320x240
Max. Framerate	H.265/H.264	30fps/25fps(60Hz/50Hz)
	MJPEG	30fps(@5MP Max. 5fps)
Min. Illumination (Lux)	Color(1/30sec, 30IRE)	0.05
	BW(1/30sec, 30IRE)	0.005
Video Out		USB: Micro USB Type B. Preview and installation ONLY. Requires WiFi dongle.

Lens

Focal Length (mm)		4.0
Max Aperture Ratio (F number)	Wide	1.6
Angular Field of View	Horizontal	80°
	Vertical	59°
	Diagonal	102°
Min. Object Distance		0.5m(1.64ft)
Focus Control		Fixed
Lens Type		Fixed iris
Mount Type		M12

Pan / Tilt / Rotate

Pan / Tilt / Rotate Range	Pan	0°~355°
	Tilt	0°~75°
	Rotate	0°~355°

Operational

Day & Night	Auto(ICR)
Backlight Compensation	BLC, WDR, SSDR
Wide Dynamic Range (dB)	120

Operational

Digital Noise Reduction		WiseNR II (Based on AI engine), SSNR V
Motion Detection	Quantity	8ea
	Shape	8point Polygonal zones
Privacy Masking	Quantity	32ea
	Shape	4point Quadrangle zones
	Color / Option	Gray, Green, Red, Blue, Black, White
	Dynamic Privacy Masking: Color / Option	Mosaic
Gain Control		Low, Middle, High
White Balance		ATW, AWC, Manual, Indoor, Outdoor
LDC		Support
Electronic Shutter	Mode	Minimum, Maximum, Anti flicker, Prefer shutter control(Based on AI engine)
	Speed Range	1/5~1/25,000sec
Video Rotation		Flip, Mirror, Hallway view(90°/270°)
Alarm Interface	In/Out	Input 1ea, Output 1ea
	Others	Support alarm I/O through an optional cable
Alarm Triggers		Analytics, Network disconnect, Alarm input, MQTT subscription
Alarm Events When Alarm Trigger Occurred		File upload(image): e-mail/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		Built-in mic
Light Type		IR LED
Light Viewable Length	IR	30m(98.42ft)
IR Wavelength		850nm

Analytics

Classified Object Type		Person, Vehicle
Attributes	Person	Upper/Lower clothes color
	Vehicle	Type(car, bus, truck, motorcycle, bicycle), Color
Thumbnail		BestShot
Analytics Events	Based on AI Engine	Object detection, Virtual line(Crossing/Direction), Virtual area(Loitering/Intrusion/Enter/Exit), Motion detection
	Normal	Defocus detection, Tampering, Virtual area(Appear/Disappear)
Business Intelligence	Based on AI Engine	People counting, Queue management, Heatmap, Vehicle counting

Network

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

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, WiseStreamIII
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
Protocol		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
Application Programming Interface	ONVIF	S, G, T, M
	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		SDcard partition encrypt(AES-256)

General

Memory	RAM	2GB
	Flash	1GB
Edge Storage	Micro SD/SDHC/SDXC	Max. 256GB x 1slot
Edge Storage(OnCloud)	Micro SD/SDHC/SDXC	Max. 1TB x 1slot *Hanwha Vision branded microSD cards have been certified and recommended for OnCloud edge recording.

Environmental & Electrical

Operating Condition	Temperature	-10°C~+45°C(+14°F~+113°F)
	Humidity	0~95% RH(non-condensing)
Storage Condition	Temperature	-30°C~+60°C(-22°F~+140°F)
	Humidity	0~95% RH(non-condensing)
Input Voltage		PoE(IEEE802.3af, Class3)
Power Consumption	PoE	Max. 8.1W, typical 4.0W

Mechanical

Color	White
Material	Plastic, Hard-coated dome
RAL Code	RAL9003
Product Dimensions	ø110x90mm(ø4.33x3.54")
Product Weight	317g(0.70 lb)
Compatible Gang Box	Support compatibility via optional plate

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 62368-1, CAN/CSA C22.2 NO. 62368-1, IEC 62471
Environment	IEC/EN 63000

DORI (EN62676-4 standard)

Detect (25PPM/ 8PPF)	Wide	61.8m(202.7ft)
Observe (63PPM/ 19PPF)	Wide	24.7m(81.1ft)
Recognize (125PPM/ 38PPF)	Wide	12.4m(40.5ft)
Identify (250PPM/ 76PPF)	Wide	6.2m(20.3ft)

QND-C8023R

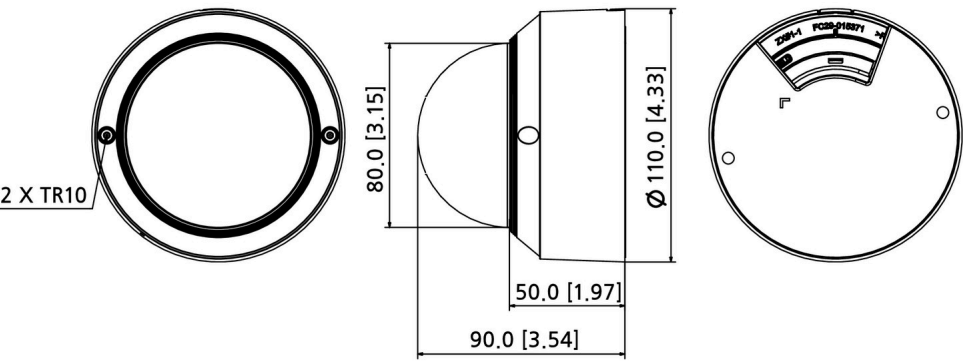
5MP IR Indoor Dome AI camera



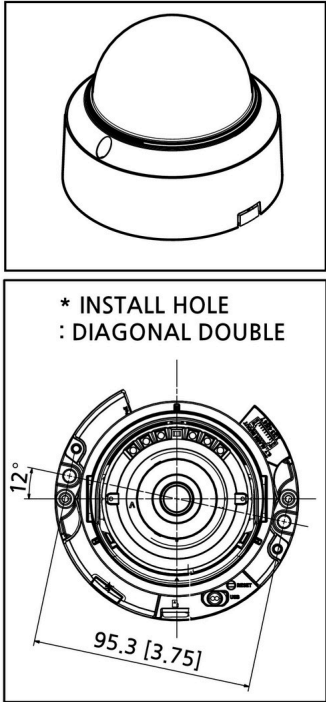
CAD

Unit: mm [inch]

QND-C8013R/C8023R INDOOR DOME CAMERA



Reference image



Revision	V1.0
Revision Date	24/12/20
Paper Size	A2
Unit	mm [inch]
Scale	1:1

© Hanwha Vision Co., Ltd. All right reserved.