

RDO7442H-ZFR

4MP AI IR Dome Network Camera



- 4MP, 1/1.8" CMOS image sensor, low illuminance, high image definition
- Max outputs 4MP(2688x1520)@50fps/60fps
- H.265 & H.264 coding, high compression ration
- Wide dynamic, Day/Night, 3D Noise Reduction, AWB, HLC, BLC
- ROI, SVC, SMART H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- With deep learning algorithm, it supports people counting, face recognition, perimeter protection etc.
- Alarm: 3 in, 2 out; audio: 1 in, 1 out; RS-485; BNC; supports max. 256 GB SD Card
- 24VAC / PoE / 12VDC power support
- Five streams for three-channel HD video
- IP67, IK10 protection grade
- 12V DC power output, max. current 165mA , easy for installation

System Overview

With advanced deep learning algorithm, Ultra AI series network camera supports various intelligent functions and satisfies the requirements in different scenes. The camera can accurately detect person, vehicle, and non-motor vehicle, face, and liveness. This series camera has ultra-starlight night version effect, and works with ultra-low stream. It supports dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10.

Functions

People Counting

With deep learning algorithm, People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with management platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

Video Metadata

With deep learning algorithm, Video Metadata technology can detect, track, capture vehicle, non-motor vehicle and people, and select the best images, and extract attributes.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

ePoE

ePoE technology provides a new way to accomplish long distance transmission between IP camera and network switch. It allows more flexible surveillance system design, improves reliability and saves construction and wiring cost.

Perimeter Protection

With deep learning algorithm, Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

Face Recognition

Face Recognition technology extracts the features of captured faces and compares them with that in face database to recognize the person identity.

Privacy Protection

Privacy Protection technology can mask the detected face and human body to protect the privacy of some special targets.



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Technical Specification

Camera

Image Sensor	1/1.8" 4Megapixel progressive scan CMOS
Effective Pixels	2688(H) x 1520(V)
ROM	16GB
RAM	2GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 – 1/100,000s
Minimum Illumination	0.001Lux@F1.2
IR Distance	Distance up to 40m (131.23ft)
IR On/Off Control	Auto
IR LEDs Number	3 (IR LEDs)
Pan / Tilt / Rotation Range	Pan: 0° - 355° Tilt: 0° - 80° Rotation: 0° - 355°

Lens

Lens Type	Motorized vari-focal				
Mount Type	Module interface				
Focal Length	2.7mm - 12mm				
Max. Aperture	F1.2				
Field of View	Horizontal: 114°(W) - 47°(T) Vertical: 59°(W) - 27°(T) Diagonal: 141°(W) - 55°(T)				
Iris Type	Auto aperture				
Close Focus Distance	W: 1m (3.28ft) T: 2.5m (8.20ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	60.1m (187.19ft)	24m (78.74ft)	12m (39.37ft)	6m (19.69ft)
	T	128.6m (421.92ft)	51.4m (168.64ft)	25.7m (84.32ft)	12.8m (41.99ft)

Smart Event

General IVS Analytics	Abandoned object, Moving object
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Professional, Intelligent

IVS (Perimeter Protection)	Tripwire, intrusion, fast moving (the three functions support the classification and accurate detection of vehicle and human); parking detection, loitering detection and people gathering.
Face Recognition	Face recognition, track, priority, snapshot, face enhancement, face exposure, face attribute extract, 6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), mask, beard Face matting setting: face, single inch photo Two snapshot strategies: priority snapshot, recognition Face angle filter Priority time setting Management of 5 group face libraries Single person register and person register in batch Face recognition and similarity setting Max supports face contrast in face library with 200,000 faces
People Counting	People counting (count the entry number, exit number and pass number), display and output daily/monthly/annual statistics, No. in area
Video Metadata	Support human body, human face, motor vehicle and non-vehicle image capture and attribute extraction.
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.

Video

Video Compression	H.265, H.264, H.264H, H.264B, MJPEG(only supported by sub stream)
Smart Codec	Smart H.265+/ Smart H.264+
Video Frame Rate	Main Stream: 2688 × 1520 (1–50/60 fps) Sub stream 1: 704 × 576 (1–25/30 fps), 704x480 (1-30fps) Third stream 2: 1920 × 1080 (1–25/30 fps) Fourth stream 3: 1920 × 1080 (1–25/30 fps) fifth stream 4: 704 × 576 (1–25/30 fps), 704x480 (1-30fps)
Stream Capability	5 streams
Resolution	4M (2688 × 1520), 3M (2304 × 1296), 1080p (1920 × 1080), 1.3M (1280 × 960), 720p (1280 × 720), D1 (704 × 576/704 × 480), VGA (640 × 480), CIF (352 × 288/352 × 240)
Bit Rate Control	CBR/VBR
Bit Rate	H.264: 32 - 10240Kbps H.265: 12 - 10240Kbps
Day/Night	ICR Switch
BLC	Yes
WDR	140dB
White Balance	Auto / Natural / Street Lamp / Outdoor / Manual / Regional Custom
Gain Control	Auto / Manual
Noise Reduction	3D DNR
Motion Detection	Off / On (4 areas, Rectangular)
Region of Interest	Yes (4 areas)
Electronic Image Stabilization (EIS)	Yes
Smart IR	Yes
Defog	Yes
Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution or below)
Mirror	Yes
Privacy Masking	4 Areas

Audio

Compression	G.711a; G.711Mu; G.726; AAC; G.723
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Network

Ethernet	1 RJ-45 (10/100/1000 Base-T)
SDK & API	Yes
Protocol	HTTP; Https; 802.1x; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; SNMP; QoS; UPnP; NTP; SFTP; RTMP; Genetec; Bonjour ; Multicast
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec; P2P;RTMP
User / Host	20 (Total bandwidth: 80M)
Edge Storage	FTP, Micro SD card (256GB), NAS, SFTP
Browser	IE: Versions later than IE9 Chrome: Versions later than Chrome 42 Firefox: Versions later than Firefox 48.0.2
Smart Phone	iOS, Android

Certifications

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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Port

RS-485	1 (Bit rate: 1200 bps–115200 bps)
Audio Input	Audio Interface: 1/1 channel In/Out
Audio Output	
Alarm Input	3 channel In: 5mA 5V DC
Alarm Output	2 channel Out: 1000mA 30V DC/500mA 50V AC

Power

Power Supply	12VDC / 24VAC / PoE+ (802.3at)
Power Consumption	<16.7W

Environmental

Operating Conditions	-30°C ~ 60°C (-22°F ~ +140°F) / Less than 95% RH
Operating Conditions	-30°C ~ 60°C (-22°F ~ +140°F) / Less than 95% RH
Protection Grade	IP67, IK10

Structure

Casing	Metal + Plastic
Dimensions	129.1mm x Φ 157.9mm (5.08" x Φ 6.22") (L x W x H)
Net Weight	1500g (3.31lb)
Gross Weight	1600g (3.53lb)

Accessories

Optional:



RPFA773
Wall Mount



RPFB210W
Pole Mount



RPFA152-E
Pole Mount

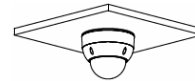


RPFA101
Ceiling Mount



RPFB300C
Ceiling Mount

Junction Mount



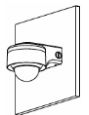
Wall Mount

RPFA773



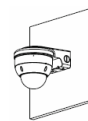
Ceiling Mount

RPFB210W



Junction Mount

RPFB210W



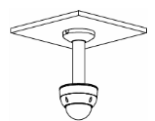
Wall Mount

RPFB210W + RPFA152-E



Ceiling Mount

RPFB300C + RPFA101



Dimensions (mm[inch])

