



RDO2431F-AS-S2

4MP IR Fixed-focal Dome Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560x1440)@25/30fps, max. supports 4MP (2688×1520)@20 fps
- H.265 codec, high compression rate, low bit rate
- Built-in IR LED, max. IR distance: 30m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, scene changing, audio abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Alarm: 1 in, 1 out; Built-in Mic; Supports max. 256 G Micro SD card
- 12V DC/POE power support
- IP67, IK10 protection

System Overview

With upgraded H.265 encoding technology, the camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better colorful image in the environment of low illumination. It supports SD card storage, waterproof function, dust-proof function, complying with the standards of IP67.

Functions

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.

WDR

With advanced Wide Dynamic Range (WDR) technology, network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Starlight

With advanced image processing technology and optical technology, Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

IVS

With advanced video algorithm, the camera supports intelligent detection, such as tripwire and intrusion and so on.

Cyber Security

The network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading the device. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, the network camera better meets the demands of cyber security and privacy protection.

Protection (IP67, IK10, wide voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can works normal after soaking in 1 m deep water for 30 minutes.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 m (Impact energy is 20J). Wide voltage: The camera allows ±30% input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.







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Camera					
Image Sensor		1/3" 4Mega	pixel Progressi	ve CMOS	
Effective Pixels		2688(H) x 15	2688(H) x 1520(V		
ROM		128MB	128MB		
RAM		128MB	128MB		
Scanning System		Progressive	Progressive		
Electronic Shutter Speed		Auto/Manua	al 1/3 s-1/100	,000 s	
Minimum Illumination		0.008Lux@F	0.008Lux@F1.6		
S/N Ratio		>56dB	>56dB		
Illuminator Distan	ce	30m (98.4ft	30m (98.4ft)		
Illuminator On/Of	f Control	Auto/ Manu	Auto/ Manual		
Illuminator LEDs N	lumber	3 (IR LED)			
Pan / Tilt / Rotation Range		Vertical: 0°-	Horizontal: -30°–30° Vertical: 0°–80° Rotation: 0°–360°		
Lens					
Lens Type		Fixed-focal	Fixed-focal		
Mount Type		M12	M12		
Focal Length		2.8mm 3.6mm			
Max. Aperture		F1.6	F1.6		
Field of View			2.8mm: Horizontal: 102°, Vertical: 55°, Diagonal: 121 3.6mm: Horizontal: 84°, Vertical: 45°, Diagonal: 100°		
Iris Type		Fixed			
Close Focus Distar	nce	2.8mm: 0.9r 3.6mm: 1.6r			
	Lens	Detect	Observe	Recognize	Identify
DORI Distance	2.8mm	56m (183.73ft)	22.4m (73.49ft)	11.2m (36.75ft)	5.6m (19.37ft)
	3.6mm	80m (262.47ft)	32m (104.99ft)	16m (52.49ft)	8m (26.25ft)
Smart Event					
General IVS Analy	TICS	Tripwire; int	rusion		
Video		⊔ 265. ⊔ 26	1. □ 264B. MII	DEG (only supp	orted by
Compression		the sub stre	H.265; H.264; H.264B; MJPEG (only supported by the sub stream Main stream:		
Smart Codec		2688 × 1520 2560 × 1440 Sub stream: 704 × 576 (1	2688 × 1520 (1 fps-20 fps) 2560 × 1440 (1 fps-25/30 fps) Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)		
Video Frame Rate			Main stream: 1920×1080 (1–25/30 fps) Sub stream: 704x576 / 704x480 (1–25/30 fps)		
Streaming Capabi	ity	2 Streams			
Resolution		1296 (2304	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 144 1296 (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		
Video Bit Rate	H.264: 32K - 6144Kbps H.265: 12K - 6144Kbps		
Day/Night	Auto(ICR) / Color / B/W		
BLC	Yes		
HLC	Yes		
WDR	120dB		
White Balance	Auto / Natural / Street Lamp / Outdoor / Manual / Regional custom		
Gain Control	Auto / Manual		
Noise Reduction	3D NR		
Motion Detection	Off / On (4 Areas, Rectangular)		
Region of Interest (ROI)	Yes (4 Areas)		
Smart IR	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution.)		
Mirror	Yes		
Privacy Masking	4 Areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711a; G.711Mu; G.726		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; motion detection; video tampering; tripwire; intrusion; illegal access; voltage detection; safety exception		
Network			
Ethernet	RJ-45 (10/100Base-T)		
SDK and API	Yes		
Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade		
Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Bonjour		
Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec		
User / Host	20		
Edge Storage	FTP; Micro SD Card (Max. 256GB); NAS; SFTP		

IE, Chrome, Firefox

iOS, Android

Web Viewer

Smart Phone





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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

Port

Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC

Power

Power Supply	12VDC, PoE (802.3af)
Power Consumption	<5.4W

Environmental

Operating Conditions	-40°C ~ +60°C (-40°F ~ +140°F) / Less than 95% RH
Storage Conditions	-40°C ~ +60°C (-40°F ~ +140°F)
Ingress Protection	IP67, IK10

Construction

Casing	Metal
Dimensions	55mm × φ108.9mm (2.2" × φ4.3")
Net Weight	0.38Kg (0.8lb)
Gross Weight	0.52g (1.1lb)

Accessories Optional:



RPFA139 Junction Box





Pole Mount

Wall Mount



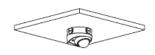


Junction Mount

Wall Mount

RPFB204W

RPFA139





Pole Mount

Ceiling Mount

RPFB204W + RPFA152-E





Dimensions (mm[inch])

