



## RDO2431R-ZS-S2

#### 4MP IR Vari-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, ultra-low bit rate
- Built-in IR LED, max. IR distance: 40m
- ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent detection: Intrusion, tripwire
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 G Micro SD card
- 12V DC/POE power support
- IP67, IK10 protection

#### System Overview

With upgraded H.265 encoding technology, this series network camera has efficient video encoding capacity, which saves bandwidth and storage space. This camera adopts the latest starlight technology and displays better color image in the condition of low illumination. It supports SD card storage, dust-proof function, waterproof function and vandal-proof function, complying with the standards of IP67 and IK10 (Supported by some select models).

#### **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.

#### **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.

#### 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 work 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  $\pm 30\%$  input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.







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Technical Sp	ecification					
Camera						
Image Sensor		1/3" 4Megapixel Progressive CMOS				
Effective Pixels		2688(H) x 15	2688(H) x 1520(V)			
ROM		128MB	128MB			
RAM		128MB				
Scanning System		Progressive				
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s				
Minimum Illumination		0.008Lux@F1.6				
S/N Ratio		>56dB				
Illuminator Distance		40m (131.23ft)				
Illuminator On/Off Control		Auto/ Manual				
Illuminator LEDs Number		2 (IR LED)				
		Horizontal:	Horizontal: 0°–355°			
Pan / Tilt / Rotation	on Range	Vertical: 0°–75° Rotation: 0°–355°				
Lens		NOTATION. U	-555			
Lens Type		Motorized vari-focal				
Mount Type		ф14				
Focal Length		2.7mm-13.5mm				
Max. Aperture		F1.5				
Max. Aperture			Horizontal: 104°–27°			
Field of View	Field of View		Vertical: 55°–15° Rotation: 124°–31°			
Iris Type	Iris Type		Fixed			
Close Focus Dista	Close Focus Distance		0.8 m-0.8 m (2.62 ft-2.62 ft)			
	Lens	Detect				
DORI Distance	W	64m (209.97ft)	25.6m (83.99ft)	12.8m (41.99ft)	6.4m (21ft)	
	Т	220m (721.78ft)	88m (288.71ft)	44m (144.36ft)	22m (72.18ft)	
Smart Event						
General IVS Analy	rtics	Tripwire; intrusion				
Video						
Video Compression		H.265; H.264; H.264B; MJPEG (only supported by the sub stream				
Smart Codec		Smart H.265+/ Smart H.264+				
Video Frame Rate		Main stream: 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)				
Streaming Capability		2 Streams				
Resolution		2688×1520 (2688×1520); 2560×1440 (2560 × 1440); 2304×1296 (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 2688×1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	4 Areas		
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		
Storage	FTP; Micro SD Card (Max. 256GB); NAS; SFTP		
Web Viewer	IE Chrome Firefox		
Mobile Phone	iOS, Android		
Certification			
	CE-LVD: EN62368-1		
Certifications	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		



Dimensions

Net Weight

Gross Weight



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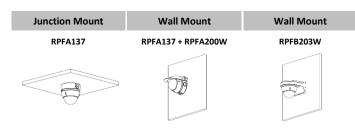
Power		
Power Supply	12VDC, PoE (802.3af)	
Power Consumption	<6.5W	
Environmental		
Operating Conditions	-40°C to +60°C (-40°F to +140°F) / Less than ≤95% RH	
Storage Conditions	-40°C to +60°C (-40°F to +140°F)	
Ingress Protection	IP67; IK10	
Construction		
Casing	Metal	

0.47Kg (1.04lb)

0.63g (1.39lb)

φ122mm × 88.9mm (φ4.80" × 3.50")





Pole Mount	Ceiling Mount	In-ceiling Mount
RPFB203W + RPFA152-E	PFA106 + RPFB220C	RPFB220C

