



RDO2431E-S-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, ultra-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 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 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 $\pm 30\%$ 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" 4Mega	1/3" 4Megapixel Progressive 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	Auto/Manual 1/3 s-1/100,000 s			
Minimum Illumination		0.008Lux@F	0.008Lux@F1.6			
S/N Ratio		>56dB	>56dB			
Illuminator Distance		30m (98.4ft)	30m (98.4ft)			
Illuminator On/Off Control		Auto/ Manu	Auto/ Manual			
Illuminator LEDs Number		3 (IR LED)	3 (IR LED)			
Pan / Tilt / Rotation Range		Vertical: 0°-	Horizontal: 0°–355° Vertical: 0°–65° Rotation: 0°–355°			
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	Fixed			
Close Focus Distance			2.8mm: 0.9m (2.95ft) 3.6mm: 1.6m (5.25ft)			
	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	Tripwire; intrusion			
Video		11.205 /1.20	4 11 2640 244	250 / 1		
Video Compression		the sub stre	H.265; H.264; H.264B; MJPEG (only supported by the sub stream			
Smart Codec			Smart H.265+/ Smart H.264+			
Video Frame Rate		2688×1520 2560×1440 Sub stream: 704×576 (1	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		

iOS, Android

Mobile Phone





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Certification

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		
Power			
Power Supply	12VDC, PoE (802.3af)		
Power Consumption	<5.2W		
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		
Dimensions	81.0mm × \$\phi\$109.9mm (3.19" × \$\phi\$4.33")		
Net Weight	0.350Kg (0.77lb)		
Gross Weight	0.491g (1.08lb)		



	Junction Mount	wall would	Wali Moulit	
RPFA136		RPFA136 + RPFA200W	RPFB203W	



