

# RDO2439T-AS-LED-S2

## 4MP Full-color fixed-focal Eyeball Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560x1440)@25/30fps, max. supports 4MP (2688x1520)@20 fps
- H.265 codec, high compression rate, low bit rate
- Built-in warm lights, 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, scene changing, audio abnormality detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, voltage detection
- Supports max. 256 G Micro SD card and built-in Mic
- 12V DC/POE power support
- IP67 protection

### System Overview

With upgraded H.265 encoding technology, the 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 (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.

#### Full Color

With high-performance sensor and large aperture lens, Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

#### 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.

#### IVS

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

#### Cyber Security

This 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, 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.

**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 Specification

#### Camera

Image Sensor	1/3" 4Megapixel Progressive CMOS
Effective Pixels	2688(H) x 1520(V)
ROM	128MB
RAM	128MB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Minimum Illumination	0.004Lux@F1.0
S/N Ratio	>56dB
Illuminator Distance	30m (98.4ft)
Illuminator On/Off Control	Auto/ Manual
Illuminator LEDs Number	1 (Warm light)
Pan / Tilt / Rotation Range	Horizontal: 0°-360° Vertical: 0° - 78° Rotation: 0°-360°

#### Lens

Lens Type	Fixed-focal				
Mount Type	M12				
Focal Length	2.8mm 3.6mm				
Max. Aperture	2.8mm: F1.0 3.6mm: F1.0				
Field of View	2.8mm: Horizontal: 96°, Vertical: 51°, Diagonal: 115° 3.6mm: Horizontal: 81°, Vertical: 44°, Diagonal: 97°				
Iris Type	Fixed				
Close Focus Distance	2.8mm: 1.3m (4.3ft) 3.6mm: 1.8m (5.9ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	56m (183.7ft)	22.4m (73.5ft)	11.2m (36.7ft)	5.6m (17.1ft)
	3.6mm	72m (236.2ft)	28.8m (94.5ft)	14.4m (47.2ft)	7.2m (23.6ft)

#### Smart Event

General IVS Analytics	Tripwire; intrusion
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#### 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 x 1520 (1 fps-20 fps) 2560 x 1440 (1 fps-25/30 fps) Sub stream: 704 x 576 (1 fps-25/30fps) 704 x 480 (1 fps-25/30fps)
Video Frame Rate	Main stream: 1920x1080 (1-25/30 fps) Sub stream: 704x576 / 704x480 (1-25/30 fps)
Streaming Capability	2 Streams
Resolution	2688 x 1520 (2688 x 1520); 2560 x 1440 (2560 x 1440); 1296 (2304 x 1296); 1080p (1920 x 1080); 1.3M (1280 x 960); 720p (1280 x 720); D1 (704 x 576/704 x 480); VGA (640 x 480); CIF (352 x 288/352 x 240)

Bit Rate Control	CBR / VBR
Video Bit Rate	H.264: 32K - 6144Kbps H.265: 12K - 6144Kbps
Day/Night	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 x 1520 resolution and lower)
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
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#### 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 (Total bandwidth: 72M)
Edge Storage	FTP; Micro SD Card (Max. 256GB); NAS; SFTP
Web Viewer	IE Chrome Firefox
Smart Phone	iOS, Android

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### Certifications

Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
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### Power

Power Supply	12VDC, PoE (802.3af)
Power Consumption	<7.4W

### 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

### Construction

Casing	Inner core: metal; cover: plastic ( pedestal: plastic )
Dimensions	100.9mm × φ109.9mm (4.0" × φ4.3")
Net Weight	0.365Kg (0.8lb)
Gross Weight	0.527g (1.2lb)

### Accessories

#### Optional:



RPFA130-E  
Junction Box



RPFB203W  
Wall Mount



RPFA152-E  
Pole Mount

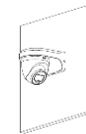
#### Junction Box

RPFA130-E



#### Wall Mount

RPFB203W



#### Pole Mount

RPFA152-E + RPFB203W



### Dimensions (mm[inch])

