

# RBU2431T-AS-S2

## 4MP IR Fixed-focal Bullet Network Camera



- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560x1440)@25/30fps, Max. supports 4MP (2688x1520)@20FPS
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max. IR distance: 80m
- 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; Audio: 1 in, 1 out; Supports max. 256 G Micro SD card
- 12V DC/POE power support
- IP67 protection, 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+

Adopting advanced algorithm of auto stream control according to the environment, smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing 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, IVS technology supports intelligent functions, 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. With UL CAP Certification, TÜV Rheinland Protected Privacy IoT Product Certification, and ETSI EN 303645 Certification, network camera better meets the demands of cyber security and privacy protection.

#### 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 works 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
S/N Ratio	>56dB
Electronic Shutter Speed	Auto/Manual 1/3 s-1/100,000 s
Minimum Illumination	0.008Lux@F1.6
IR Distance	80m (262.5ft)
IR On/Off Control	Auto/ Manual
IR LEDs Number	4 (IR LED)
Pan / Tilt / Rotation Range	Horizontal: 0°-360° Vertical: 0°-90° Rotation: 0°-360°

#### Lens

Lens Type	Fixed-focal				
Mount Type	M12				
Focal Length	2.8mm 3.6mm 8mm				
Max. Aperture	F1.6				
Field of View	2.8mm: Horizontal: 84°, Vertical: 45°, Diagonal: 100° 3.6mm: Horizontal: 52°, Vertical: 28°, Diagonal: 61° 8mm: Horizontal: 40°, Vertical: 23°, Diagonal: 45°				
Iris Type	Fixed				
Close Focus Distance	2.8mm: 1.4m(4.6ft) 3.6mm: 3.1m(10.2ft) 8mm: 4.9m(1.61ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	2.8mm	80m (262.5ft)	32.0m (105.0ft)	16.0m (52.5ft)	8.0m (26.2ft)
	3.6mm	120m (393.7ft)	48.0m (157.5ft)	24.0m (78.7ft)	12.0m (39.4ft)
	8mm	160.0m (524.9ft)	64.0m (210.0ft)	32.0m (105.0ft)	16.0m (52.5ft)

#### Smart Event

IVS	Tripwire; intrusion
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#### Video

Compression	H.265; H.264; H.264B; MJPEG (only supported by 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 fps) 704 x 480 (1 fps-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	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 x 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; illegal access; motion detection; video tampering; tripwire; intrusion; voltage detection; security 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; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; 802.1x; Bonjour
Interoperability	ONVIF(Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec
User / Host	20
Edge Storage	FTP; SFTP; Micro SD Card (Max. 256GB); NAS
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 UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07
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### 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	<7.7W

### 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	244.1mm × φ90.4mm (9.61" × φ3.26")
Net Weight	0.91Kg (2.0lb)
Gross Weight	1.16Kg (2.6lb)

### Accessories

#### Optional:



RPFA130-E  
Junction Box



RPFA152-E  
Pole Mount

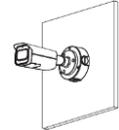
#### Pole Mount

RPFA130-E + RPFA152-E



#### Junction Box

RPFA130-E



### Dimensions (mm[inch])

