

# RBU2431T-ZS-S2

## 4MP WDR IR Bullet Network Camera



- 4MP, 1/3" CMOS image sensor, low illumination, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, max. supports 4MP(2688 × 1520)@20 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max IR distance: 60m
- 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, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, local alarm, voltage detection
- Support max. 256GB Micro SD card
- 12VDC / PoE power support
- IP67 protection ,IK10 protection (optional)

### 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+ & 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.

#### Wide Dynamic Range

Rhodium adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back-light environment, bright region and dark region with strong light source, you can also get clear images.

### Starlight

Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the environment of min. illumination, the technology can guarantee the good image effect.

### Intelligent Video Analysis (IVS)

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

### 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 ±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	128GB
RAM	128GB
Scanning Mode	Progressive
Electronic Shutter Speed	Auto/Manual 1/3s – 1/100,000s
Minimum Illumination	0.01Lux@F1.5
IR Distance	60m (196.85ft)
IR On/Off Control	Auto / Manual
IR LEDs Number	4
Pan/Tilt/Rotation	Horizontal: 0°-360° Vertical: 0°-90° Rotation: 0°-360°

#### Lens

Lens Type	Motorized vari-focal				
Mount Type	Φ14				
Focal Length	2.7-13.5mm				
Max. Aperture	F1.5				
Field of View	Horizontal: 104°-27° Vertical: 55°-15° Diagonal: 124°-31°				
Optical Zoom	5 times				
Iris Type	Fixed				
Close Focus Distance	0.8m-0.8m (2.62ft-2.62ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64m (209.97ft)	25.6m (83.99ft)	12.8m (41.99ft)	6.4m (21.00ft)
	T	220m (721.78ft)	88m (288.71ft)	44m (144.36ft)	22m (72.18ft)

#### Smart Event

General IVS Analytics	Intrusion, Tripwire
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#### Video

Video Compression	H.265; H.264; H.264B; MJPEG
Smart Codec	H.264: Yes H.265: Yes
Video Frame Rate	Main Stream: 2688x1520 (1fps-20fps) 2560x1440 (1fps-25/30fps) Sub Stream: 704x576 (1fps-25fps) 704x480 (1fps-25fps)
Stream 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: 32Kbps – 6144Kbps H.265: 12Kbps – 6144Kbps
Day/Night	Auto / ICR / Color / B/W
BLC	Yes
HLC	Yes
WDR	120dB
White Balance	Auto / Indoor / Street Lamp / Outdoor / Manual / Regional Custom
Gain Control	Auto / Manual
Noise Reduction	3D DNR
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 2688x1520 resolution)
Mirror	Yes
Privacy Masking	4 areas

#### Network

Network	1 RJ-45 (10/100 Base-T)
Protocol	HTTP; TCP; ARP; RTSP; RTP; UDP; RTCP; SMTP; FTP; DHCP; DNS; DDNS; PPPoE; IPv4/v6; QoS; UPnP; NTP; RTMP; Multicast; HTTPS; SFTP; 802.1x; ICMP; IGMP
Interoperability	ONVIF (Profile S/Profile G); CGI; Milestone; Genetec
User/Host	20
Edge Storage	FTP, Micro SD card (support max. 256GB), NAS
Browser	IE; Chrome; Firefox
Mobile Phone	iOS; Android

#### Certifications

Certifications	CE-LVD: EN60950-1 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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#### Power

Power Supply	12VDC / PoE (802.3af)
Power Consumption	< 9.6W

#### Environment

Operating Conditions	-30°C ~ 60°C (-22°F ~ +140°F) / Less than ≤ 95%
Operating Conditions	-40°C ~ 60°C (-40°F ~ +140°F)
Protection	IP67; IK10 (optional)

#### Structure

Casing	Metal
Dimensions	Φ 244.1mm x 90.4mm (Φ 9.61" x 3.26")
Net Weight	0.86Kg (1.90lb)
Gross Weight	1.10Kg (2.43lb)

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### Accessories

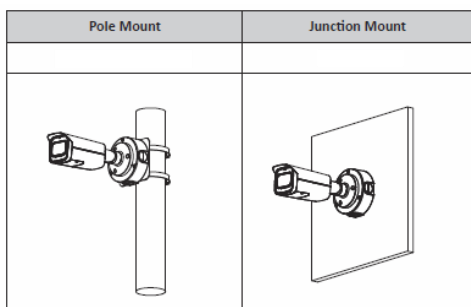
Optional



RPF130-E  
Junction Box



RPF152-E  
Pole Mount



### Dimensions (mm[inch])

