



## IP-B4MWAC-WS

# 4MP IR VARI-FOCAL BULLET NETWORK CAMERA

### features

- **4MP, 1/3" CMOS image sensor, low illuminance, high image definition**
- **Outputs max. 4MP (2688 × 1520)@30 fps**
- **H.265 codec, high compression rate, low bit rate**
- **Built-in IR LED, max. IR distance: 40 m**
- **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 (support the classification and accurate detection of vehicle and human)**
- **Abnormality detection: Motion detection, video tampering, scene changing, audio abn ,PUM0004243 ,ornality detection, no SD card, SD card SD Card full,SD Card error, network disconnection, IP conflict, illegal access, voltage detection**
- **Alarm: In, out; Audio: In, out; Supports max. 256 G Micro SD card**
- **12V DC/POE power supply**
- **IP67, IK10 protection**
- **SMD Plus**

### System Overview

Launched by Snappy Technology, a series of AI products and solutions that adopt independent AI chip and deep learning algorithm. It focuses on human and vehicle with high accuracy, enabling users to fast act on defined targets. Based on Snappy's advanced technologies, provides intelligent, simple and inclusive products and solutions.

With advanced deep learning algorithm, Snappy 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance

### Functions

#### SMD Plus

With intelligent algorithm, Snappy Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion

detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

#### Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, Snappy 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.

#### Perimeter Protection

With deep learning algorithm, Snappy Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion, fast moving, parking detection, loitering detection and gathering detection) are largely reduced.

#### Starlight

Snappy 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.

#### Cyber Security

Snappy 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 cm (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.

# Technical Specification

Camera					
Image Sensor	1/3"4Megapixel progressive CMOS				
Effective Pixels	2688 (H) × 1520 (V)				
RAM/ROM	128 MB / 512MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual, 1/3 s–1/100000 s				
Minimum Illumination	0.005 Lux@F1.5 (Color, 30IRE)0.0005 Lux@F1.5 (B/W, 30IRE)0 Lux (Illuminator on)				
IR Distance	60 m (197 ft)				
IR On/Off Control	Auto/Manual				
IR LEDs	4 (IR LED)				
S/N Ratio	> 56 dB				
Pan/Tilt/Rotation Range	Pan: 0°–355°; Tilt: 0°–65°; Rotation: 0°–355°				
Lens					
Lens Type	Motorized vari-focal				
Mount Type	φ14				
Focal Length	2.7 mm–13.5 mm				
Max. Aperture	F1.5				
Angle of View	H: 104°–27°, V: 55° –15°, D: 124° –31°				
Iris Type	Fixed				
Close Focus Distance	0.8 m (2.6 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64m(120ft)	25.6m(84ft)	12.8m(42ft)	6.4m(21ft)
	T	222m (728.3ft)	88.8m (291.3ft)	44.4m (145.7ft)	22.2m (72.8ft)
Professional, Intelligent					
Perimeter Protection	Tripwire; intrusion (Recognition of human and vehicle)				
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				
Video					
Compression	H.265,H.264,H.264B,H.264H, MJPEG (sub stream)				
Smart Codec	Smart H.265+ / Smart H.264+				
Streaming Capability	3 Streams				
Frame Rate	Main stream (2688 × 1520@1–25/30 fps)				
	sub stream (704 × 576@1–25 fps/ 704 × 480@1–30 fps)				
	third stream (1280 × 720@1–25/30 fps)				
Resolution	4M (2688 × 1520); 3M (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				
Bit Rate	H.264: 32 Kbps–8192 Kbps H.265: 19 Kbps–8192 Kbps				
Day/Night	Auto(ICR)/Color/B/W				
BLC/HLC	Yes				
WDR	120 dB				
White Balance	Auto/Natural/Street Lamp/Outdoor/Manual/Regional/Custom				

Gain Control	Auto/Manual
Noise Reduction	3D DNR
Motion Detection	Off/On (4 Area, Rectangle)
Region of Interest	Off/On (4 Area)
Smart IR	Yes
Flip	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)
Mirror	Yes
Privacy Masking	4 Areas
Audio	
Compression	G.711a; G.711Mu; G726
Alarm	
Alarm Event	No SD card; SD card full; SD card error; less service time of SD card (smart card supports); network disconnection; IP conflict; illegal access; voltage detection; security exception; motion detection; video tampering; scene changing; input abnormal; intensity change; tripwire; intrusion; SMD
Network	
Ethernet	RJ-45 (10/100 Base-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;SNMP
Interoperability	ONVIF Profile S/Profile G/Profile T, CGI, Milestone, Genetec
Scene Self-adaptation (SSA)	Yes
User/Host	20 (Total bandwidth: 64 M)
Edge Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Web Viewer	IE: IE8, IE9, IE11ChromeFirefox
Management Software	Smart PSS, DSS, DMSS
Smart Phone	iOS, Android
Certification	
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
Port	
Audio Input	1-channel (RCA port)
Audio Output	1-channel (RCA port)
Alarm Input	1 channel In: 5mA 5V DC
Alarm Output	1 channel out: 300mA 12V DC
Electrical	
Power Supply	12V DC/PoE (802.3af)
Power Consumption	<9.8W
Environment	
Operating Conditions	-30°C to +60°C (-22°F to +140°F)/less than 95%
Storage Conditions	-40°C to +60°C (-40°F to +140°F)
Protection Grade	IP67, IK10
Structure	
Casing	Metal
Dimensions	244.1 mm × 79.0 mm × 75.9 mm(9.6" × 3.1" × 3.0") (L × W × H)
Net Weight	820 g (1.8lb)
Gross Weight	1090 g (2.4lb)

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