

IBM2441M-ZAS

4MP IR Vari-focal Bullet WizSense Network Camera



Functions

SMD Plus

With intelligent algorithm, 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, 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

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

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.

Cyber Security

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 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.

Camera					
Image Sensor	1/2.9" CMOS				
Max. Resolution	2688 (H) × 1520 (V)				
ROM	128 MB				
RAM	128 MB				
Scanning System	Progressive				
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s				
Minimum Illumination	0.006 lux@F1.5 (Color, 30 IRE) 0.0006 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator On)				
S/N Ratio	> 56 dB				
Illumination Distance	Up to 60 m (196.85 ft) (IR LED)				
Illuminator On/Off Control	Auto; Manual				
Illuminator Number	4 (IR LED)				
Pan/Tilt/Rotation Range	Horizontal: 0°–360°, Vertical: 0°–90°, Rotation: 0°–360°				
Lens					
Lens Type	Motorized Vari-Focal				
Lens Mount	φ14				
Focal Length	2.7 mm–13.5 mm				
Max. Aperture	F1.5				
Field of View	H: 104°–29°; V: 54°–16°; D: 125°–34°				
Iris Control	Fixed				
Close Focus Distance	0.8 m (2.62 ft)				
DORI Distance	Lens	Detect	Observe	Recognize	Identify
	W	64.0m (209.97ft)	25.6m (83.99ft)	12.8m (41.99ft)	6.4m (20.99ft)
	T	210.0m (688.97ft)	84.0m (275.59ft)	42.0m (137.80ft)	21.0m (68.90ft)
Smart event					
IVS (Perimeter Protection)	Tripwire; Intrusion(The Two Functions Support the Classification and Accurate Detection of Vehicle and Human)				
Smart Search	Work Together with Smart NVR to Perform Refine Intelligent Search, Event Extraction and Merging to Event Videos				
Video					
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only Supported by the Sub Stream)				
Smart Codec	Smart H.265+; Smart H.264+				
Video Frame Rate	Main Stream: 2688 × 1520@(1–20 fps)/2560 × 1440@(1-25/30 fps) Sub Stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The Values Above are the Max. Frame Rates of Each Stream; for Multiple Streams, The Values will be Subjected to the Total Encoding Capacity.				
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: 32Kbps ~ 6144Kbps				
Day/Night	Auto(ICR)/Color/B/W				
BLC	Yes				
HLC	Yes				
WDR	120 dB				

Video	
Scene Self-Adaptation (SSA)	Yes
White Balance	Auto/Natural/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 2688 × 1520 Resolution and Lower)
Mirror	Yes
Privacy Masking	4 Areas
Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726
Alarm	
Alarm Event	No SD Card; SD Card Full; SD Card Error; Network Disconnection; IP Conflict; Illegal Access; Motion Detection; Video Tampering; Intrusion; Tripwire; Scene Changing; Audio Detection; Voltage Detection; Defocus Detection; External Alarm; SMD; Safety Exception
Network	
Network	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
Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P
Interoperability	ONVIF (Profile S/Profile T); CGI
User/Host	6 (Total Bandwidth: 36 M)
Storage	FTP; SFTP; Micro SD Card (Support Max. 256 GB); NAS
Browser	IE, Chrome, Firefox
Management Software	Smart PSS; DSS; DMSS
Mobile Phone	IOS; Android
Port	
Audio Input	1 Channel (RCA Port)
Audio Output	1 Channel (RCA Port)
Alarm Input	1 Channels In: 5 mA 3–5 VDC
Alarm Output	1 Channel Out: 300 mA 12 VDC
Power	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 2.4 W (12 VDC); 3.1 W (PoE) Max. (H.265+Intelligence On +WDR +IR On): 8.8 W (12 VDC); 10.2 W (PoE)
Environment	
Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	–40 °C to +60 °C (–40 °F to +140 °F)
Protection Grade	IP67, IK10 (Optional)
Structure	
Casing	Metal
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)
Net Weight	0.76 kg (1.7 lb)
Gross Weight	1.02 kg (2.2 lb)

Dimension

