

## MT-IPB640Z4AC-AI

4MP Smart Dual Light Active Deterrence  
Vari-focal Bullet Ai Network Camera



### FEATURES

- 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED; the max. IR illumination distance is 50 m and warm light distance is 40 m.
- ROI, SMART H.264+/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Speaker; support two-way talk.
- Intelligent monitoring: Intrusion, tripwire (the two function support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card; built-in dual MICs; 1-ch speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- Sound and light alarm (red and blue lights).
- Motion plus Ai 4.0.
- One-tap arming/disarming through alarm input.

## TECHNICAL SPECIFICATIONS

Camera	Image Sensor	1/2.7" CMOS		
	Effective Pixels	2688 (H) × 1520 (V)		
	ROM	128 MB		
	RAM	512 MB		
	Scanning System	Progressive		
	Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s		
	Min. Illumination	0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)		
	S/N Ratio	> 56 dB		
	Illumination Distance	50 m (164.04 ft) (IR) 40 m (131.23 ft) (warm light)		
	Illuminator On/Off Control	Auto; manual		
	Illuminator Number	2 (IR LED) 2 (warm light)		
Lens	Pan/Tilt/Rotation Range	Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°		
	Lens Type	Motorized vari-focal		
	Mount Type	φ16		
	Focal Length	2.7 mm–13.5 mm		
	Max. Aperture	F1.0		
	Field of View	Horizontal: 103°–33° Vertical: 54°–18° Diagonal: 124°–38°		
	Iris Type	Fixed		
	Close Focus Distance	1.5 m (4.92 ft)		
	DORI Distance	Lens	W	T
		Detect	65.2 m (213.91 ft)	186.6 m (612.20 ft)
		Observe	26.1 m (85.63 ft)	74.6 m (244.75 ft)
		Recognize	13.0 m (42.65 ft)	37.3 m (122.38 ft)
		Identify	6.5 m (21.33 ft)	18.7 m (61.35 ft)
Professional, intelligent	IVS (Perimeter Protection)	Tripwire; intrusion (support the classification and accurate detection of vehicle and human)		
	SMD 4.0	Less false alarm, longer detection distance		
	Quick Pick	With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events		
	Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos		
	AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions		

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+		
	AI Coding	AI H.265; AI H.264		
	Video Frame Rate	Main stream: 1920 × 1080 @1-25/30 fps Sub stream: 704 × 576 @25 fps; 704 × 480 @30 fps		
	Stream Capability	2 streams		
	Resolution	Main stream: 2688 × 1520@ (1–30 fps) Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30 fps) Third stream: 1920 × 1080@ (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	3 streams		
	Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240)		
	Bit Rate Control	CBR/VBR		
	Video Bit Rate	H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps		
	Day/Night	Auto(ICR)/Color/B/W		
	BLC	Yes		
	HLC	Yes		
	WDR	120 dB		
	Scene Self-adaptation	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)		
	Region of Interest (RoI)	Yes (4 areas)		
	Image Stabilization	Electronic Image Stabilization (EIS)		
	Smart Illumination	Yes		
	Defog	4 areas		
	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, built-in dual Mic		
	Built-in speaker	Yes, built-in speaker		
	Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723		

## TECHNICAL SPECIFICATIONS

<b>Alarm Event</b>	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception	
<b>Network</b>	<b>Network Port</b>	RJ-45 (10/100 Base-T)
	<b>SDK and API</b>	Yes
	<b>Protocol</b>	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP
	<b>Cyber Security</b>	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
	<b>Interoperability</b>	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
	<b>User/Host</b>	20 (Total bandwidth: 72 M)
	<b>Storage</b>	FTP; SFTP; Micro SD card (support max. 256 G); NAS
	<b>Browser</b>	IE: IE8/9/11- Chrome - Firefox
	<b>Management Software</b>	Smart PSS; DSS; DMSS
	<b>Mobile Phone</b>	IOS; Android
<b>Certification</b>	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU; FCC: 47 CFR FCC Part 15, Subpart B; UL/CUL:UL62368-1 & CAN/CSA C22.2 No. 62368-1-14	
<b>Port</b>	<b>Audio Input</b>	1 channel (RCA port)
	<b>Audio Output</b>	1 channel (RCA port)
	<b>Alarm Input</b>	1 channel in: 5mA 3V–5 VDC
	<b>Alarm Output</b>	1 channel out: 300mA 12 VDC

<b>Power</b>	<b>Power Supply</b>	12 VDC/PoE (802.3af)
	<b>Power Consumption</b>	Basic: 1.9 W (12 V DC); 2.4 W (PoE) Max. (ICR + H.265 + max. resolution + main stream + IR intensity + WDR + IVS): 4.5 W (12 V DC); 5.4 W (PoE)
<b>Environment</b>	<b>Operating Conditions</b>	–30 °C to +60 °C (–22 °F to +140 °F) /Less than 95% RH
	<b>Storage Conditions</b>	–40 °C to +60 °C (–40 °F to +140 °F)
	<b>Protection</b>	IP67
<b>Structure</b>	<b>Casing</b>	Metal + plastic
	<b>Dimensions</b>	288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72" × 3.33") (L×W×H)
	<b>Net Weight</b>	1.05 kg (2.31 lb)
	<b>Gross Weight</b>	1.35 kg (2.98 lb)