MT-IPB520Z4I-AC

5MP IR Vari-focal Anti-Corrosion Bullet AI Network Camera

Anti-Corrosion Design	AI Analytics & Detection	Superior Night Vision	Professional Grade
Special anti-corrosion material, ideal for coastal cities, ports and harsh environments	Face detection, video metadata, people counting, perimeter protection, smart sound detection	5MP 1/2.7" CMOS, 0.005 Lux @F1.5, 50 m IR, 120 dB WDR, Starlight	IP67 & IK10, 4 streams, built-in MIC, alarm I/O, max 512 GB SD

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Anti-Corrosion Series for Demanding Environments

Engineered with special anti-corrosion materials for reliable operation in coastal cities, ports, industrial plants and other corrosive environments. Combined with advanced AI deep learning algorithms, this camera delivers precise video metadata, face detection, perimeter protection and people counting, while the 5MP Starlight sensor with 50 m IR illumination ensures exceptional image quality.

FEATURES

- Anti-corrosion design: special anti-corrosion material for coastal cities, ports and harsh environments
- 5MP 1/2.7" CMOS image sensor, low luminance, high definition image
- Outputs max. 5MP (2960 x 1668) @25/30 fps
- Built-in IR LED, max IR distance: 50 m
- AI deep learning: video metadata, face detection, perimeter protection, people counting, smart sound detection
- ROI, SVC, H.264+/H.265+, AI H.264/H.265, flexible coding for various bandwidth and storage environments
- Rotation mode, 120 dB WDR, 3D NR, HLC, BLC, digital watermarking, EIS
- Intelligent Motion Detection with human/vehicle classification
- Alarm: 2 in, 1 out; audio: 1 in, 1 out; built-in MIC
- Supports max. 512 GB Micro SD card
- 12V DC / PoE power supply; Long-distance PoE
- IP67 and IK10 protection

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TECHNICAL SPECIFICATIONS

Camera	
Image Sensor	1/2.7" CMOS
Max. Resolution	2960 (H) x 1668 (V)
ROM / RAM	4 GB / 1 GB
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s - 1/100,000 s
Min. Illumination	0.005 Lux @F1.5
S/N Ratio	> 56 dB
Illumination Distance	50 m (164.04 ft) (IR)
Illuminator On/Off Control	Auto; Manual
Illuminator Number	4 (IR LED)
Angle Adjustment	Pan: 0°-360° Tilt: 0°-90° Rotation: 0°-360°

Video	
Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Advanced Codec	H.265+ / H.264+
AI Coding	AI H.265; AI H.264
Video Frame Rate	Main stream: 2960 x 1668 @(1-25/30 fps) Sub stream: D1 @(1-25/30 fps) Third stream: 1080p @(1-25/30 fps) Fourth stream: 720p @(1-25/30 fps)
Stream Capability	4 streams
Resolution	5M (2960 x 1668); 5M (2880 x 1620); 4M (2688 x 1520); 3.6M (2560 x 1440); 3M (2048 x 1536); 3M (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: 32 kbps - 16384 kbps; H.265: 12 kbps - 11776 kbps
Day/Night	Auto (ICR) / Color / B/W
BLC	Yes
HLC	Yes
WDR	120 dB
Scene Self-adaptation (SSA)	Yes
White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Gain Control	Auto
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest (RoI)	Yes (4 areas)
Image Stabilization	Electronic Image Stabilization (EIS)
Defog	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 4M resolution and lower)
Mirror	Yes
Privacy Masking	8 areas

Certifications	
CE-LVD	EN62368-1
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

Lens	
Lens Type	Motorized vari-focal
Lens Mount	Module
Focal Length	2.7 mm - 13.5 mm
Max. Aperture	F1.5
Field of View	H: 100°-28°; V: 72°-21° (2592 x 1944) H: 104°-29°; V: 55°-16° (2688 x 1520)
Iris Control	Auto
Close Focus Distance	0.8 m (2.62 ft)
DORI Distance	

Lens	W	T
Detect	64 m (209.97 ft)	212 m (695.54 ft)
Observe	26 m (85.30 ft)	85 m (278.87 ft)
Recognize	13 m (42.65 ft)	42 m (137.80 ft)
Identify	6 m (19.69 ft)	21 m (68.90 ft)

Intelligent	
IVS (Perimeter Protection)	Intrusion, tripwire, fast moving (support classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection
Smart Object Detection	Smart abandoned object; smart missing object
Intelligent Motion Detection	Intelligent motion detection with human/vehicle classification (eliminates false alerts from animals, leaves, rain)
AI SSA	Yes
Face Detection	Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting
People Counting	Tripwire people counting, generating and exporting report (day/week/month/year); people counting in area and queue management; generating and exporting report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management
Heat Map	Yes
Video Metadata	Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload. Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes: seatbelt, smoking, calling. Non-motor vehicle attributes: type, color, number of people, top type and color, hat. Human body attributes: gender, top/bottom type and color, bag, hat and umbrella. Face attributes: gender, age, expressions, glasses, face mask and beard.
Smart Search	AI-powered quick target search (find specific person or vehicle in seconds)
Smart Sound Detection	Yes

Audio	
Built-in MIC	Yes
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723

Power	
Power Supply	12V DC / PoE (802.3af) / Long-distance PoE
Power Consumption	Basic: 3.6 W (12V DC); 4.7 W (PoE) Max. (H.265+ WDR+ Intelligence on+IR on): 10.4 W (12V DC); 13.0 W (PoE)

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TECHNICAL SPECIFICATIONS

Alarm Event	
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; Intelligent Motion Detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; Intelligent Motion Detection; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception; defocus detection

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)
Storage Humidity	10%-95% (RH), non-condensing
Protection	IP67; IK10

Structure	
Casing Material	Anti-corrosion metal
Product Dimensions	273.2 mm x 95.0 mm x 95.0 mm (10.76" x 3.74" x 3.74") (L x W x H)
Net Weight	1.13 kg (2.49 lb)
Gross Weight	1.68 kg (3.70 lb)

Network	
Network Port	RJ-45 (10/100 Enhancement Base-T)
SDK and API	Yes
Network Protocol	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; P2P
Interoperability	ONVIF (Profile S/G/T); CGI
User/Host	20 (Total bandwidth: 80 M)
Storage	FTP; SFTP; Micro SD card (support max. 512 GB); NAS
Browser	IE: IE 9 and later Chrome: Chrome 102 and later Firefox: Firefox 88 and later
Management Software	ONVIF (Profile S/G/T), CGI, compatible VMS
Mobile Client	iOS; Android
Cyber Security	Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification

Port	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	2 channels in: wet contact, 5 mA 3V-5V DC
Alarm Output	1 channel out: wet contact, 300 mA 12V DC

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Accessories:

DT-MFA121
junction box

Accessories:

DT-MFA152
pole mount

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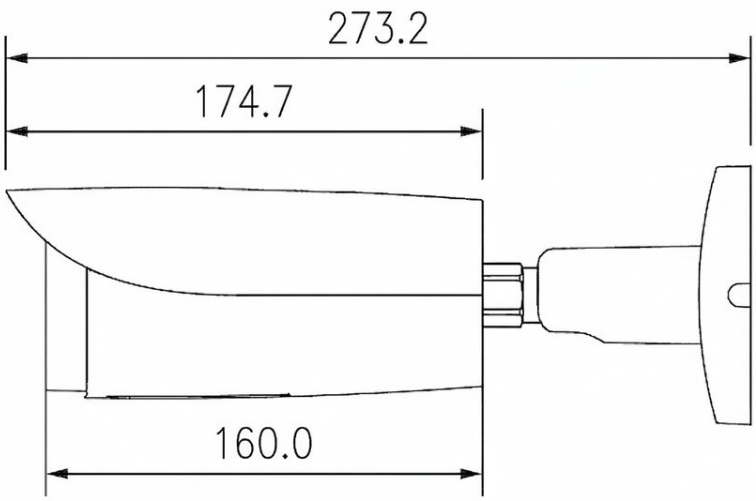
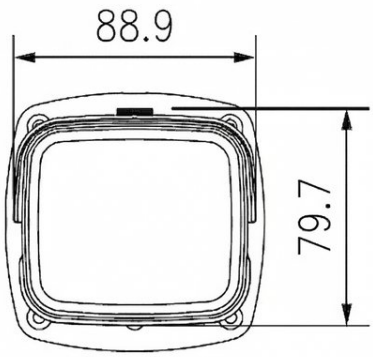
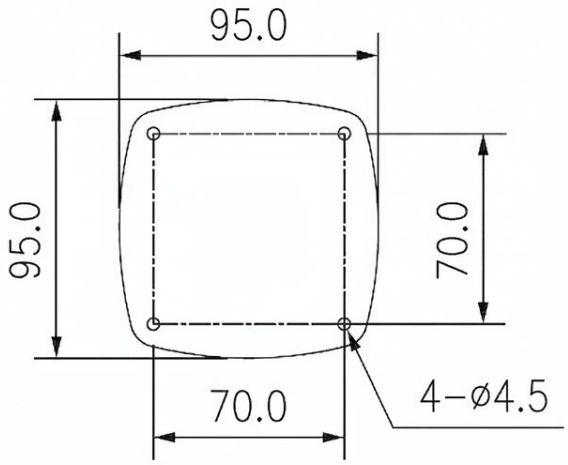
DIMENSIONS







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