



AI Analytics	Superior Image Quality	Flexible Coding	5X Motorized Zoom
Perimeter protection, tripwire, intrusion, AI Plus, AI SSA	4MP 1/2.9" CMOS, 120 dB WDR, 0.005 Lux	H.265+/H.264+, AI H.265/H.264, triple stream	2.7–13.5 mm lens, DORI compliant

FEATURES

- 4MP 1/2.9" CMOS image sensor, low luminance, high definition image
- Outputs max. 4MP (2688 × 1520) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate
- ROI, H.264+/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes
- Intelligent monitoring: Intrusion, tripwire (support classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, scene changing, network disconnection, IP conflict, illegal access, voltage detection
- 12 VDC/PoE power supply
- AI Plus
- Supports AI SSA
- ONVIF Profile S/T/M for interoperability with third-party VMS

MT-IPBX540

TECHNICAL SPECIFICATIONS

Camera	
Image Sensor	1/2.9" CMOS
Max. Resolution	2688 (H) × 1520 (V)
Scanning System	Progressive
Electronic Shutter Speed	Auto/Manual 1/3 s–1/100,000 s
Min. Illumination	0.005 lux@F1.4 (Color, 30 IRE) 0.0005 lux@F1.4 (B/W, 30 IRE)
S/N Ratio	>56 dB
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: 2688 × 1520@(1 fps–25/30 fps) Sub stream: 1920 × 1080@(1 fps–25/30 fps) Third stream: 1920 × 1080@(1 fps–25/30 fps)
Stream Capability	3 streams
Resolution	4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Bit Rate Control	VBR; CBR; ABR
Video Bit Rate	H.264: 3 kbps–16384 kbps H.265: 3 kbps–16384 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)
Defog	Yes
Image Rotation	0°/90°/180°/270° (support 90°/270° with 2688 × 1520 resolution and lower)
Privacy Masking	8 areas
Intelligence	
IVS (Perimeter Protection)	Tripwire, intrusion (support the classification and accurate detection of vehicle and human)
AI Plus	AI Plus
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions

Lens			
Lens Type	Motorized 5X Zoom		
Lens Mount	φ14		
Focal Length	2.7 mm–13.5 mm		
Max. Aperture	F1.4		
Field of View	H: 104°–29°; V: 54°–16°; D: 125°–34°		
Iris Control	Fixed		
Close Focus Distance	0.1 m (0.33 ft)		
DORI Distance	Lens	W	T
	Detect	64.0 m (209.97 ft)	210.0 m (688.98 ft)
	Observe	25.6 m (83.99 ft)	84.0 m (275.59 ft)
	Recognize	12.8 m (41.99 ft)	42.0 m (137.80 ft)
	Identify	6.4 m (21.00 ft)	21.0 m (68.90 ft)
Network			
Network Port	RJ-45 (10/100 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/T/M); CGI		
User/Host	20 (Total bandwidth: 64 M)		
Storage	FTP; SFTP; Micro SD card (support max. 512 G); NAS		
Management Software	MT Suite; MT App; CGI, compatible VMS		
Mobile Client	iOS; Android		
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		
Power			
Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 3.2 W (12 VDC); 4.8 W (PoE) Max.: 9.3 W (12 VDC); 11.9 W (PoE)		
Environment			
Operating Temperature	–30 °C to +60 °C (–22 °F to +140 °F)		
Operating Humidity	≤95% (RH), non-condensing		
Structure			
Casing	Metal and Nylon		
Product Dimensions	99.8 mm × 70.5 mm × 68.2 mm (3.93" × 2.78" × 2.69") (L × W × H)		
Net Weight	835 g (1.84 lb)		

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