



MPIX-50IRBT-AIT

5MP Smart Dual Illumination with Active Deterrence



KEY FEATURES:

- 5-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 5 MP (2960x1668) @20 fps and supports 4 MP (2688x1520)@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 30 m and warm light distance is 30 m.
- ROI, SMART 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 (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).
- Smart Motion Detection 4.0.
- One press arming/disarming through alarm input.

CAMERA	
Image Sensor	1/2.7" CMOS
Max. Resolution	2960 (H) × 1668 (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	30 m (98.43 ft) (IR) 30 m (98.43 ft) (warm light)
Illuminator On/Off Control	Auto/Manual
Illuminator Number	1 (IR LED) 1 (warm light)
Pan/Tilt/Rotation Range	Pan: 0°–355° Tilt: 0°–65° Rotation: 0°–355°

LENS	
Lens Type	Fixed-focal
Lens Mount	M12
Focal Length	2.8 mm
Max. Aperture	F1.0
Field of View	2.8 mm: H: 97°; V: 70°; D: 128°
Iris type	Fixed
Close Focus Distance	2.8 mm: 1.5 m (4.92 ft)

DORI DISTANCE				
Lens	Detect	Observe	Recognize	Identify
2.8 mm	66.0 m (216.54 ft)	26.4 m (86.61 ft)	13.2 m (43.31 ft)	6.6 m (21.65 ft)

NETWORK	
Network	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; SMB; PPPoE; SNMP
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; P2P; RTMP
User/Host	20 (Total bandwidth: 72 M)
Storage	FTP; SFTP; Micro SD Card (support max. 256 G); NAS
Browser	IE: IE8; IE9; IE11 Chrome Firefox
Mobile Client	iOS; Android
Scene self-adaptation	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

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: 2880 × 1620/2960 × 1668@(1 fps–20 fps)/2688 × 1520 @(1 fps–30 fps) Sub stream: 704 × 576@(1 fps–25 fps)/704 × 480@(1 fps–30 fps) Third stream: 1920 × 1080@(1 fps–25/30 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	5M (2880 × 1620/2960 × 1668); 4M (2688 × 1520/2560 × 1440); 3M 2304×1296/2048 × 1536); 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: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps
Day/Night	Auto (ICR)/Color/B/W
BLC	Yes
HLC	Yes
WDR	120dB
White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
Gain Control	Auto/Manual
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 areas, rectangular)
Region of Interest	Yes (4 areas)
Smart Illumination	Yes
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 1920 × 1080 resolution and lower.)
Mirror	Yes
Privacy Masking	8 areas

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

PORT	
Audio Input	1 channel (RCA port)
Audio Output	1 channel (RCA port)
Alarm Input	1 channel in: 5mA 3V–5V DC
Alarm Output	1 channel out: 300mA 12V DC

ADVANCED INTELLIGENCE	
Fenced Area Protection	Tripwire; intrusion (Support the classification and accurate detection of vehicle and human)
Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
Smart Motion Detection 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 Smart Motion Detection events
AI SSA	Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.

ALARM	
Alarm Event	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; external alarm; Smart Motion Detection; security exception

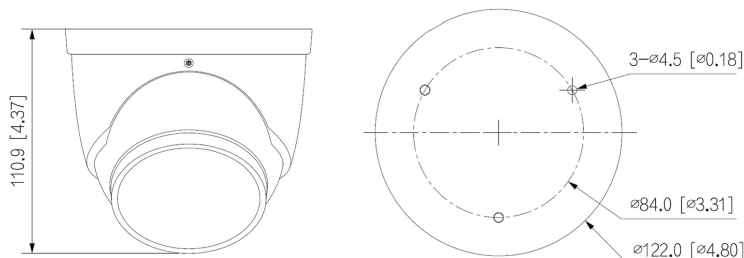
STRUCTURE	
Casing Material	Metal
Product Dimensions	110.9 mm × Φ122.0 mm (4.37" × Φ4.80")
Net Weight	745 g (1.64 lb)
Gross Weight	915 g (2.02 lb)

ENVIRONMENT	
Operating Temperature	-40°C to +60°C (-40°F to +140°F)/less than 95%
Storage Temperature	-40°C to +60°C (-40°F to +140°F)
Protection	IP67

ACCESSORIES	
BRACK BB 48	
BRACK WM 48	
BRACK PM 06	

POWER	
Power Supply	12 VDC/PoE (802.3af)
Power Consumption	Basic: 3.7 W (12 VDC); 4.8 W (PoE) Max. (pulling stream+warning light+speaker+warm light on): 8.3 W (DC12 V) 8.8 W (POE)

CERTIFICATION	
Certifications	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B



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