Watch**NET** BLZ

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BLZ-8TF50

8MP Smart Warm Light Active Deterrence AI Fixed-Focal Turret Camera

| WDR | Line Crossing | ICR | IR | IP67 |

KEY FEATURES:

- **8MP** 1/1.8" CMOS Sensor for ultra-clear high-definition imaging

- **H.264+ and H.265+** Compression for efficient bandwidth and storage use

- **Warm Light Range:** Up to 50 meters for enhanced visibility in low-light environments

- **Perimeter Protection** with Face Detection, SMD (Smart Motion Detection), People Counting, and Smart Object Detection

- **Built-in Microphone and Speaker** for two-way audio communication

- **Active Deterrence Features:** Warm LED alarm, sound alarm, arm and disarm functions

- Supports **up to 256GB** Micro SD Card for local video storage

- **Lens Options:** 2.8mm fixed lens

- **Power Supply:** 12 VDC or Power over Ethernet (PoE)

- **IP67 Rating:** Weatherproof and dustproof for durable outdoor performance

Ø122

110

3XØ4.5

Ø84
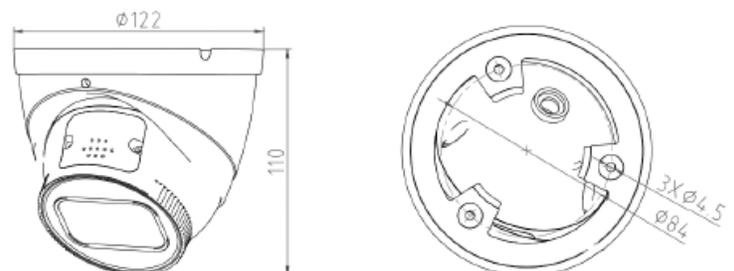
CAMERA

Image Sensor	1/1.8" CMOS
Max. Resolution	8MP, 3840 (H) × 2160 (V)
Electronic Shutter	Auto/Manual 1/3 s–1/100,000 s
Scanning System	Progressive
Min. illumination	0.0008 lux@F1.6(F1.0 optional) (Color, 30 IRE),0.0004 lux@F1.6(F1.0 optional) (B/W, 30 IRE),0 lux (Illuminator on)
S/N Ratio	> 56 dB
Illumination Distance	Warm light distance 50m
Illuminator Control	Auto; Manual

LENS

Lens Type	Fixed-Focal
Focal Length	2.8mm/3.6mm/6.0mm
Max. Aperture	F1.6

VIDEO

Compression	H.264H; H.264M; H.264B; H.265 MJPEG (Customization)
Smart Compression	H.264H+; H.264M+; H.264B+; H.265+
Bit Rate Control	CBR/VBR
Bit Rate	H.264: up to 16384 kbps; H.265: up to 16384 kbps
Stream Capability	3 Streams
Video Frame Rate	Main Stream: 8MP (1 fps–25 fps) Sub Stream: D1 (1 fps–25/30 fps) Third stream: 1080P(1–25/30 fps)
Day/Night	Color/B/W
BLC, HLC	Yes
White Balance	Yes
Gain Control	Auto/Manual
WDR	DWDR
Noise Reduction	3D NR
Motion Detection	OFF/ON (4 Areas, rectangular)
Image Rotation	180°
Mirror	Yes
Privacy Masking	4 Areas

ALARM

Arming/Disarming	Yes
Sound Alarm	Yes
Light Alarm	White LED Alarm
Alarm Event	Disconnection; IP Conflict; No SD Card; Capacity Warning; SD Card Error

SMART FUNCTION

Smart Motion Detection	Yes
Perimeter Protection	Intrusion, tripwire; loitering detection; people gathering; Parking detection
Face Detection	Face detection; track; snapshot; snapshot optimization
Object Detection	Abandoned object; Missing object
People Counting	People counting in area; queue detection
Heat Map	Support
Video Metadata	NA
AI Search	Work together with NVR

AUDIO

Built-in Mic	Yes
Built-in Speaker	Yes
Audio Compression	G.711a; G.711Mu; G.726; G.726ASF

NETWORK

Network	RJ-45 (10/100 Base-T)
SDK and API	Yes
Network Protocol	TCP/IP;UDP;HTTP;IGMP;ICMP;DHCP;RTP/RTSP;DNS;DDNS;FTP;NTP;PPPOE;UPNP;SMTP
Interoperability	ONVIF; CGI; P2P
User/Host	16 (Total bandwidth: 80 M)
Storage	FTP; Micro SD card (support max. 256 G/FAT32)
Browser	IE: IE8 and later, Chrome, Firefox, Edge
Mobile Client	IOS; Android
Management Software	eVMS-BLZ

ENVIRONMENT

Power Supply	12V DC (±30%)/PoE (802.3af)
Power Consumption	Basic: 2.5 W ;Max. 5.2W
Operating Conditions	–30°C to +60°C (–22°F to +140°F)/Less than 95% RH
Storage Conditions	–40°C to +60°C (–40°F to +140°F)
Protection Grade	IP67
Casing	Metal
Dimensions	110 mm × Φ122 mm
Net Weight	630g

PORT

Audio Input	1 channel
Audio Output	1 channel
Alarm Input	1 channel
Alarm Input	1 channel

ACCESSORIES

BLZ-BB-48	
BLZ-WM-48	