

TDOBIS460MS-AI

4MP IR Vari-focal Bullet Network Camera



Functions

SMD Plus

With intelligent algorithm, Smart Motion Detection technology can categorize the targets that trigger motion detection and filter the motion detection alarm triggered by non-concerned targets to realize effective and accurate alarm.

Smart H.265+ & Smart H.264+

With advanced scene-adaptive rate control algorithm, smart encoding technology realizes the higher encoding efficiency than H.265 and H.264, provides high-quality video, and reduces the cost of storage and transmission.

Perimeter Protection

With deep learning algorithm, Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@20 fps, and supports 2560 × 1440 (2560 × 1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 60 m.
- ROI, SMART 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 functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, 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 (Only ZAS supports); audio: 1 in, 1 out (Only ZAS supports); supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67, IK10 (optional) protection.
- · SMD Plus.













WD

With advanced Wide Dynamic Range (WDR) technology, network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

Cyber Security

Toughdog network cameras employ a series of security technologies, including security authentication and authorization, access control protocols, trusted protection, encrypted transmission and encrypted storage. These technologies improve the camera's defense against external cyber threats and prevent malicious programs from compromising the device.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and soak. It has dust-proof function, and the enclosure can work normally after soaking in 1 m deep water for 30 minutes.

Wide voltage: The camera allows $\pm 30\%$ (for some power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification						Stream Capability	2 streams	
Camera				Stream Capability	2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);			
Image Sensor		1/2.9" CMOS					Resolution	2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Max. Resolution		2688 (H) × 1520 (V)					Bit Rate Control	CBR/VBR
ROM		128 MB					Video Bit Rate	H.264: 32 kbps–6144 kbps;
RAM		128 MB						H.265: 12 kbps-6144 kbps
Scanning Sys	stem	Progressive					Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					BLC	Yes
Min. Illumin	ation	0.008 lux@F1.5 (Color, 30 IRE) 0.0008 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on)					HLC WDR	Yes 120 dB
S/N Ratio		>56 dB					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illumination	Distance	60 m (196.85 ft) (IR LED)					Gain Control	Manual;Auto
Illuminator (On/Off Control	Auto; Manual					Noise Reduction	3D NR
Illuminator N	Number	4 (IR LED)						OFF/ON (4 areas, rectangular)
Dan/Til+/Pot	ation Pango	Pan: 0°-360°					Motion Detection	
Pan/Tilt/Rotation Range		Tilt: 0°–90° Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type		Motorized vari-focal					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Lens Mount		ф14					Mirror	Yes
Focal Length	ı	2.7 mm-13.5 mm					Privacy Masking	4 areas
Max. Apertu	ıre	F1.5					Audio	
Field of View	v	H: 104°-29°; V: 54°-16°;					Built-in MIC	Yes
		D: 125°-34°					Audio Compression	G.711a; G.711Mu; G.726; PCM
Iris Control		Fixed					Alarm	
Close Focus DORI	Lens 2.7mm - 13.5mm	0.8 m (2.62 ft Detect 64.0 m (209.97 ft)	Observe 25.6 m (83.99 ft)	Recognize 12.8 m (41.99 ft)	Identify 6.4 m (20.99 ft)		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; external alarm (Only- ZAS supports); SMD; security exception
Distance		,	,	,	, , , ,		Network	
1 1 11							Network Port	RJ-45 (10/100 Base-T)
Intelligen	ce	lateration trimuites (the true for the control of t					SDK and API	Yes
IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) Work together with Smart NVR to perform refine					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP
Smart Search		intelligent search, event extraction and merging to event videos					Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
Video							User/Host	6 (Total bandwidth: 36 M)
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					Storage	FTP; SFTP; Micro SD card (support max. 256 GB)
Smart Codec		Smart H.265+; Smart H.264+					Browser	IE Chrome Firefox
Video Frame Rate		Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@ (1-25/30 fps) Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps)					Management Software	TD-SMS; DSS; ToughDogViewer Pro
							Mobile Client	iOS; Android
		*The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.						

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Cyber Security	Video 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		
Certification			
Certifications	CE-LVD:EN62368-1; CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU; FCC:47 CFR FCC Part 15, Subpart B		
Port			
Audio Input	1 channel (RCA port) (Only- ZAS supports)		
Audio Output	1 channel (RCA port) (Only- ZAS supports)		
Alarm Input	1 channel in: 5mA 3V–5V DC (Only- ZAS supports)		
Alarm Output	1 channel out: 300mA 12V DC (Only- ZAS supports)		
Power			
Power Supply	12 VDC/PoE (802.3af)		

Environment

Power Consumption

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)
Protection	IP67, IK10 (optional)

Basic: 2.4 W (12 VDC); 3.1 W (PoE)

VDC); 10.1 W (PoE)

VDC); 10.2 W (PoE)

-ZAS:

Max. (H.265+intelligence on +WDR +IR on): $8.7~\mathrm{W}$ (12

Basic: 2.4 W (12 VDC); 3.1 W (PoE)
Max. (H.265+intelligence on +WDR +IR on): 8.8 W (12

Structure

Casing Material	Metal
Product Dimensions	238.5 mm × 90.7 mm × 90.7 mm (9.39" × 3.57" × 3.57") (L × W × H)
Net Weight	-ZS: 0.73 kg (1.6 lb) -ZAS: 0.76 kg (1.7 lb)
Gross Weight	-ZS: 0.99 kg (2.2 lb) -ZAS: 1.02 kg (2.2 lb)

Ordering Information					
Туре	Model	Description			
AMD Comoro	TDOBIS460MS-AI	4MP IR Vari-focal Bullet Network Camera			
4MP Camera					
	PFA130-E	Junction Box			
	PFA152-E	Pole Mount Bracket			
Accessories (Optional)	PFA135	Water-proof Junction Box			
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Accessories

Optional:







PFA130-E Junction Box

PFA152-E Pole Mount Bracket

PFA135 Water-proof Junction Box

Junction Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

