

TDOBIS4LP

4MP Wide Angle Fixed Bullet Network Camera



Functions

EPTZ

With advanced target detection and tracking algorithms, **ToughDog** EPTZ technology can simultaneously zoom in and track multiple humans and vehicles that trigger alarms. It provides rich details and a panoramic view at the same time.

SMD 3.0

With intelligent algorithm, TD 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, **ToughDog** 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, TD 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 1/2.7" CMOS starlight-grade image sensor, low luminance, and high definition image.
- Outputs 4 MP (2688 × 1520) @25/30 fps , and supports max. 5 MP (2880 × 1620) @20fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 20 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 functions support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, video tampering, 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
- Alarm: 1 In, 1 out; audio: 1 In, 1 out; supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply.
- IP67 protection.
- EPTZ: Enlarge and track the targets of intelligent alarms.
- SMD 3.0.



Cyber Security

ToughDog network camera is equipped with a series of key security technologies, such as security authentication and authorization, access control, trusted protection, encrypted transmission, and encrypted storage, which improve its security defense and data protection, and prevent malicious programs from invading 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 works normal 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

Camera					
Image Sensor		1/2.7" CMOS			
Max. Resolution		2880 (H) × 1620 (V)			
ROM		128 MB			
RAM		512 MB			
Scanning System		Progressive			
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s			
Min. Illumination		0.01 lux@F2.0 (Color,30 IRE) 0.001 lux@F2.0 (B/W,30 IRE) 0 lux (Illumin ator on)			
S/N Ratio		>56 dB			
Illumination Distance		20 m (65.62 ft) (IR LED)			
Illuminator On/Off Control		Auto			
Illuminator Number		2 (IR LED)			
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360°			
Lens					
Lens Type		Fixed-focal			
Lens Mount		M12			
Focal Length		2.1 mm			
Max. Apertu	re	F2.0			
Field of View		LDC is disabled: Horizontal: 180°; Vertical: 78°; Diagonal: 180° LDC is enabled (by default): Horizontal: 170°; Vertical: 75°; Diagonal: 175°			
Close Focus I	Distance	0.6 m (1.97 ft)			
DORI Distance	Lens	Detect	Observe	Recogni ze	Identify
	2.1 mm	52.0 m (170.60 ft)	20.8 m (68.24 ft)	10.4 m (34.12 ft)	5.2 m (17.06 ft)
Intelligence					
	Intrusion, tripwire (the two function		functions supp	ort the	

IVS (Perimeter Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)	
SMD 3.0	Less false alarm, longer detection distance	
Smart Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos	
Video		
Video Compression	H.265; H.264; H.264B; MJPEG (Only suppor ted by the sub stream)	
Smart Codec	Smart H.265+; Smart H.264+	
AI Coding	AI H.265; AI H.264	

	Main stream: 2880 × 1620 @(1–20 fps)/2688 × 1520 @		
Video Frame Rate	(1–25/30 fps) sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) third stream:1920 × 1080 @ (1–25/30 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); 4M (2688 × 1520/2560 × 1440); 3M (2048 × 1536); 2304 × 296 ; 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		
Scene Self-adaptation (SSA)	Yes		
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 (RoI)	Yes (4 areas)		
Smart Illumination	Yes		
Defog	Yes		
Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)		
Mirror	Yes		
Privacy Masking	4 areas		
Audio			
Built-in MIC	Yes		
Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loi tering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; SMD; security exception		
Network			
Network Port	RJ-45 (10/100 Base-T)		
SDK and API	Yes		

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	Video encryption; configuration encryption; Digest;			
Cyber Security	WSSE; account lockout; security logs; generation and importing of X.509 certification; HTTPS; trusted boot; trusted execution; trusted upgrade			
Network Protocol	IPv4; IPv6; HTTP;TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; U PnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP			
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P			
User/Host	20 (Total bandwidth: 64 M)			
Storage	FTP; SFTP; Micro SD card (support m ax. 256 GB); NAS			
Browser	IE Chrome Firefox			
Management Software	TD-SMS; DSS; ToughDogViewer Pro			
Mobile Client	iOS; And roid			
Certification				
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/C SA C22.2 No. 62368-1-14			
Port				
Audio Input	1 channel (RCA port)			
Audio Output	1 channel (RCA port)			
Alarm Input	1 channel in: 5 mA 3–5V DC			
Alarm Output	1 channel out: 1,000 mA 30V DC/500mA 50V DC			
Power				
Power Supply	12 VDC/PoE			
Power Consumption	Basic: 3.1 W (12 V DC); 5.3 W PoE) Max. (H.265+main stream/IR intensity+IR on): 4 W (12V DC); 6.5 W (PoE)			
Environment				
Operating Temperature	–40 °C to +60 °C (–40 °F to +140 °F)/Less than 95% RH			
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)			
Protection	IP67			
Structure				
Casing	Metal			
Product Dimensions	249.3 mm × 90.7 mm × 90.4 mm (9.81" × 3.57" × 3.56") (L × W × H)			
Net Weight	820 g (1.81 lb)			
Gross Weight	1090 g (2.40 lb)			

Ordering Information				
Туре	Model	Description		
	PFA130-E	Junction Box		
Accessories (optional)	PFA135	Junction Box		
	PFA152-E	Pole Mount		

Accessories

Optional:





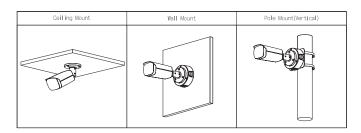
Box



PFA130-E Junction Box

PFA135 Junction

PFA152-E Pole Mount



Dimensions (mm[inch])

