

TDODIS4LP

4MP Wide Angle Fixed Dome 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) @20 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 15 m.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, **fl**exible 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 card; built in MIC.
- 12 VDC/PoE power supply.
- IP67, IK10 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, IK10, 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.

IK10: The enclosure can stand the punch more than 5 times from a 5 kg hammer falling from a height of 40 cm (Impact energy is 20J). 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	l Specificati	on					Main stream: 2880 × 1620 @(1–20 fps)/2688 × 1520 @ (1–25/30 fps)
Camera				sub stream: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)			
Image Sensor		1/2.7" CMOS			Video Frame Rate	third stream:1920 \times 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each	
Max. Resolution 2880 (H) × 1620 (V)			stream; for multiple streams, the values will be subjected to the total encoding capacity.				
ROM		128 MB				Stream Capability	3 streams
RAM		512 MB	512 MB				5M (2880 × 1620); 4M (2688 × 1520/2560 × 1440); 3M (2048 × 1536); 2304 × 296 ; 1080p(1920 × 1080);
Scanning Sys	stem	Progressive			Resolution	1.3M (1280 × 960); 720p(1280×720); D1 (704× 576/704×480); VGA(640 × 480); CIF(352 × 288/352 ×	
Electronic Sh	nutter Speed	Auto/Manual 1/3 s-1/100,000 s			Bit Rate Control	240) CBR/VBR	
Min. Illumin	ation		.0 (Color, 30 IRI 2.0 (B/W, 30 IRI ator on)			Video Bit Rate	H.264: 3 kbps–8192 kbps; H.265: 3 kbps–8192 kbps
S/N Ratio		>56 dB			Day/Night	Auto (ICR)/Color/B/W	
Illumination [Distance	15 m (49.21	ft) (IR LED)			BLC	Yes
Illuminator O	n/Off Control	Auto				HLC	Yes
Illuminator N	lumber	3 (IR LED)			WDR	120dB	
Pan/Tilt/Rota			Pan: 0°–355° Tilt: 0°–80°			Scene Self-adaptation (SSA)	Yes
Rotation: 0°–355°				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom		
Lens Type		Fixed-focal			Gain Control	Auto; Manual	
					Noise Reduction	3D NR	
	Lens Mount		M12			Motion Detection	OFF/ON (4 areas, rectangular)
	Focal Length		2.1 mm			Region of Interest (RoI)	Yes (4 areas)
Max. Apertu	ire	F2.0		Smart Illumination	Yes		
Field of View	V	LDC is disabled: Horizontal: 180°; Vertical: 78°; Diagonal: 180° LDC is enabled (by default):			Defog	Yes	
Close Focus	Distance	Horizontal: 170°; Vertical: 75°; Diagonal: 175° 0.6 m (1.97 ft)		Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688×1520 resolution and lower)		
0.000 1.0000	Lens	Detect	Observe	Recogni ze	Identify	Mirror	Yes
DORI Distance		52.0 m	20.8 m	10.4 m	5.2 m	Privacy Masking	4 areas
	2.1 mm	(170.60 ft)	(68.24 ft)	(34.12 ft)	(17.06 ft)	Audio	
Intelliger	nce				Built-in MIC	Yes	
IVS (Perimet	IVS (Perimeter Protection)		Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)			Audio Compression	G.711a; G.711Mu; PCM; G.726; G.723
SMD 3.0		Less false alarm, longer detection distance			Alarm		
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos				No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast	
Video				Alarm Event	moving; abandoned object; missing object; loi tering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external		
Video Comp	Video Compression		H.265; H.264; H.264B; MJPEG (Only suppor ted by the sub stream)			NI a trava alla	alarm; SMD; security exception
Smart Code	С	Smart H.265+; Smart H.264+			Network	21 45 (40/400 2 - 5)	
Al Coding		AI H.265; AI	H.264			Network Port	RJ-45 (10/100 Base-T)
						SDK and API	Yes

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Cyber Security	Video encryption; configuration encryption; Digest; 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		

Certi**fi**cation

	CE-LVD:EN62368-1;
	CE-EMC: Electromagnetic Compatibility Directive
Certifications	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: 3.2W (12 V DC); 3.9 W PoE) Max. (H.265+main stream/IR intensity+IR on): 6.4 W (12VDC); 7.7 W (PoE)

Environment

Operating Temperature	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F})/\text{Less}$ than 95% RH
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Protection	IP67, IK10

Structure

Casing	Metal
Product Dimensions	94 mm × Φ122.0 mm (3.70" × Φ4.80")
Net Weight	500 g (1.10 lb)
Gross Weight	770 g (1.69 lb)

Ordering Information			
Туре	Model	Description	
Accessories (optional)	PFA137	Junction Box Bracket	
	PFB203W	Wall Mount	
	PFA152-E	Pole Mount	

Accessories

Optional:



PFA137 Junction Box Bracket



PFB203W Wall Mount



PFA152-E Pole Mount

Junction Mount	Wall Mount	Pole Mount(Vertical)

Dimensions (mm[inch])

