

TDOEIS430LIR2-A-PD

4 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera



Functions

Siren and Light Active Deterrence

ToughDog siren and light active deterrence network camera supports the light alarm and voice alarm when perimeter event occurs, to realize the deterrence and effective intervention. The camera is built in multiple voices for selection, and supports customized voice importing.

Smart Dual Illuminators

TD Smart Dual Illuminators technology adopts smart algorithm to detect targets. Usually, the IR illuminator is on at night; when the target appears in the monitoring area, the warm light is on, and the camera records the full-color video and information of key events. That is, the camera links snapshot and video with full-color image. When the target is out of the monitoring area, the warm light is off and the IR illuminator is on, which reduces light pollution efficiently.

SMD 4.0

TD Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an Al NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.

- 4-MP 1/2.7" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520)@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+, AlH.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; buit-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).
- · SMD 4.0.
- · One press arming/disarming through alarm input.













One-tap Disarming

ToughDog One-tap Disarming function, which is convenient and easy for operation, is the switch for event linkage. Customers can close and recover event linkage through mobile App, which meets multi-scenarios needs.

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 $\pm 30\%$ input voltage tolerance (wide voltage range), and it is widely applied to outdoor environment with instable voltage.

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Technical Specification				Al Coding	AI H.265; AI H.264			
Camera							Video Frame Rate	Main stream: 2688 × 1520@ (1 fps-30 fps) Sub stream: 704 × 576@(1 fps-25 fps)/704 × 480@(1
Image Sensor		1/2.7" CMOS						fps=30 fps) Third stream: 1920 × 1080@ (1 fps=30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected
Max. Resolution		2688 (H) × 1520 (V)						
ROM		128 MB					Change Canability	to the total encoding capacity. 3 streams
RAM		512 MB					Stream Capability	
Scanning System		Progressive Auto/Manual 1/3 s-1/100,000 s					Resolution	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)
Electronic Shutter Speed		Auto/Ivialiual 1/3 5-1/100,000 S					Bit Rate Control	CBR/VBR
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)					Video Bit Rate	H.264: 32kbps–8192 kbps H.265:12kbps–8192 kbps
S/N Ratio		> 56 dB					Day/Night	Auto (ICR)/Color/B/W
		> 56 dB 30 m (98.43 ft) (IR)					BLC	Yes
Illumination	Distance	30 m (98.43 ft) (warm light)					HLC	Yes
Illuminator (On/Off Control	Auto; manua	al .				WDR	120 dB
Illuminator N	Number	1 (IR LED) 1 (warm light	t)				Scene Self-adaptation	Yes
Pan/Tilt/Rotation Range		Pan: 0°-360° Tilt: 0°-78°					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens		Rotation: 0°–360°					Gain Control	Auto; manual
		Fixed-focal					Noise Reduction	3D NR
Lens Type Mount Type		M12					Motion Detection	OFF/ON (4 areas)
Focal Length		2.8 mm					Region of Interest (RoI)	Yes (4 areas)
		2.8 mm: H: 101°; V: 53°; D: 120°					Smart Illumination	Yes
Field of View	V	2.011111.11.101 , v. 33 , D. 120				Defog	Yes	
Iris Type Close Focus Distance		2.8 mm: 1.5 m (4.92 ft)					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 \times 1520 resolution and lower)
Close i ocus							Mirror	Yes
	Lens	Detect	Observe	Recognize	Identify		Privacy Masking	8 areas
DORI Distance	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)		Audio	
							Built-in MIC	Yes
Intelliger	nt						Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
IVS (Perimet	er Protection)	Tripwire; intrusion (Support the classification and accurate detection of vehicle and human)					Alarm	
SMD 4.0		Less false alarm, longer detection distance					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; SMD; security exception
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events					Network	
AI SSA		Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions.					Network	RJ-45 (10/100 Base-T)
Video		o. and image to sait tale containing.					SDK and API	Yes
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)				Cyber Security	Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs; IP/MAC filtering; generation and importing of X.509	
Smart Code	0	Smart H.265+; Smart H.264+					certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade	

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Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; 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: IE8/9/11 Chrome Firefox		
Management Software	TD-SMS, DSS, ToughDogViewer Pro		
Mobile Phone	iOS; Android		
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Certification

	CE-LVD: EN 62368-1;		
	CE-EMC: Electromagnetic Compatibility Directive		
Certification	2014/30/EU;		
	FCC: 47 CFR FCC Part 15, Subpart B;		
	UL/CUL:UL62368-1 & CAN/CSA 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 3V–5 VDC
Alarm Output	1 channel out: 300 mA 12 VDC

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)

Environment

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

Structure

Casing	Metal
Dimensions	110.9 mm \times Φ 122.0 mm (4.37" \times Φ 4.80")
Net Weight	745 g (1.64 lb)
Gross Weight	915 g (2.02 lb)

Ordering Information				
Туре	Model	Description		
4MP	TDOEIS430LIR2-A-PD	4 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera		
Camera				
	PFA137	Junction Box		
	PFB205W-E	Wall Mount Bracket		
	PFA109	Mount Adapter		
Accessories	PFB220C	Ceiling Mount Bracket		
(Optional)	PFA152-E	Pole Mount Bracket		

Accessories

Optional:







PFB205W-E Wall Mount Bracket



PFA109 Mount Adapter

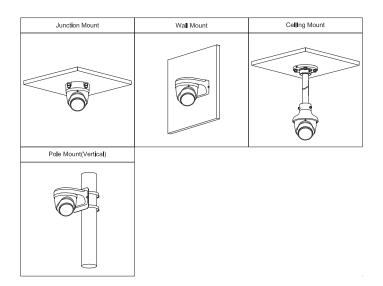






PFA152-E Pole Mount Bracket

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Dimensions (mm[inch])

