

TDOEIS430LIR2-A-PD

4 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball 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 AI 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 de finition 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+, AIH.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 function support the classification and accur ate 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 con flict, 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-ta p 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						AI Coding	AI H.265; AI H.264
Camera							Main stream: $2688 \times 1520@$ (1 fps-30 fps) Sub stream: $704 \times 576@$ (1 fps-25 fps)/ $704 \times 480@$ (1 fps-30 fps) Third stream: $1920 \times 1080@$ (1 fps-30 fps) *The values above are the max. frame r ates of each stream; for multiple streams, the values will be subjected
Image Sensor		1/2.7" CMOS				Video Frame Rate	
Max. Resolution		2688 (H) × 1520 (V)					
ROM		128 MB				Stroom Canability	to the total encoding capacity. 3 streams
RAM		512 MB				Stream Capability	
Scanning System		Progressive				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/Manual 1/3 s-1/100,000 s					
Min. Illumination		0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)				Bit Rate Control	CBR/VBR H.264: 32kbps–8192 kbps
						Video Bit Rate	H.265:12kbps=8192 kbps
S/N Ratio		> 56 dB				Day/Night	Auto (ICR)/Color/B/W
Illumination Distance		30 m (98.43 ft) (IR)				BLC	Yes
		30 m (98.43 ft) (warm light)				HLC	Yes
Illuminator On/Off Control		Auto; manual				WDR	120 dB
Illuminator Number		1 (IR LED) 1 (warm light)				Scene Self-adaptation	Yes
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360°				White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Lens						Gain Control	Auto; manual
Lens Type		Fixed-focal				Noise Reduction	3D NR
Mount Type		M12				Motion Detection	OFF/ON (4 areas)
Focal Length		2.8 mm				Region of Interest (RoI)	Yes (4 areas)
Field of View		2.8 mm: H: 101°; V: 53°; D: 120°				Smart Illumination	Yes
		2.8 11111. 111 , v. 33 , D. 120				Defog	Yes
Iris Type Close Focus Distance		2.8 mm 1.5 m (4.03 ft)				Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
Close i ocus		2.8 mm: 1.5 m (4.92 ft)				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
Intelligent						Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
IVS (Perimeter Protection)		Tripwire; intrusion (Support the classification and accurate detection of vehicle and human)				Alarm	
SMD 4.0		Less false alarm, longer detection distance					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.				Alarm Event	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events				Network	
ALSSA		Adopt deep learning algorithms to adjust the parameters				Network	RJ-45 (10/100 Base-T)
Al SSA		of the image to suit the conditions.				SDK and API	Yes
Video		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					Video encryption; firmware 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
Video Compression						Cyber Security	
Smart Codec		Smart H.265+; Smart H.264+					

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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	Smart PSS; DSS; DMSS					
Mobile Phone	iOS; Android					
Certification						
Certification	CE-LVD: EN 62368-1; CE-EMC: Electromagnetic Compatibility Directive 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	$-40~^{\circ}\text{C}$ to +60 $^{\circ}\text{C}$ (–40 $^{\circ}\text{F}$ to +140 $^{\circ}\text{F}$)/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 × Φ122.0 mm (4.37" × Φ4.80")					
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 Network Camera					
Camera							
	PFA137	Junction Box					
	PFA152-E	Pole Mount Bracket					
Accessories (Optional)							

Accessories

Optional:

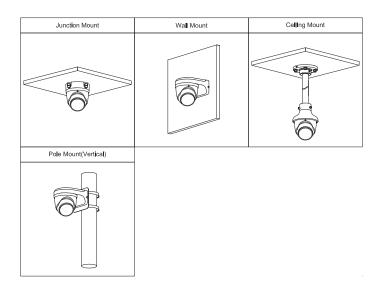






PFA152-E Pole Mount Bracket

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Dimensions (mm[inch])

