

TDOEIS830LIR2-A-PD

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



Series Overview

With advanced deep learning algorithm, ToughDog WizSense 3 Series network camera supports intelligent functions, such as perimeter protection and smart motion detection. With starlight technology, this series camera provides a better image effect in the condition of low illuminance.

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

ToughDog 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

ToughDog 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.

- * The parameters and datasheets below can only be applied to 3849V-S4 series.
- \cdot 8-MP 1/2.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 8 MP (3840 × 2160)@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.

TDOEIS830LIR2-A-PD

Technical Specification							Video	
Camera							Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)
Image Sensor		1/2.8" CMOS					Smart Codec	Smart H.265+; Smart H.264+
Max. Resolution		3840 (H) × 2160 (V)					Al Coding	AI H.265; AI H.264
ROM		128 MB					Video Frame Rate	Main stream: $3840 \times 2160@(1 \text{ fps}-30 \text{ fps})$ Sub stream: $704 \times 576@(1 \text{ fps}-25 \text{ fps})/704 \times 480@(1 \text{ fps}-30 \text{ fps})$ Third stream: $1920 \times 1080@(1 \text{ fps}-30 \text{ fps})$ *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.
RAM		512 MB						
Scanning System		Progressive						
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s						
Min. Illumination		0.004 lux@F1.0 (Color, 30 IRE) 0.0004 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on)					Stream Capability	3 streams 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520/2560 × 1440); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
S/N Ratio		> 56 dB					Resolution	
Illumination	Illumination Distance		t) (IR) t) (warm light)				Bit Rate Control	CBR/VBR
Illuminator On/Off Control		Auto; manual					Video Bit Rate	H.264: 32kbps-8192 kbps
Illuminator Number		1 (IR LED)					Day/Night	H.265:12kbps-8192 kbps Auto (ICR)/Color/B/W
		1 (warm light)					BLC	Yes
Pan/Tilt/Rot	Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°				HLC	Yes
		Rotation: 0°–360°					WDR	120 dB
Lens								Yes
Lens Type		Fixed-focal					Scene Self-adaptation	Auto; natural; street lamp; outdoor; manual; regional
Mount Type		M12					White Balance	custom
Focal Length		2.8 mm; 3.6 mm					Gain Control	Auto; manual
Field of View		2.8 mm: H: 106°; V: 55°; D: 125° 3.6 mm: H: 85°; V: 45°; D: 100°					Noise Reduction	3D NR
Iris Type		Fixed					Motion Detection	OFF/ON (4 areas)
Close Focus Distance		2.8 mm: 2.0 m (6.56 ft)					Region of Interest (RoI)	Yes (4 areas)
	Lens	3.6 mm: 2.8 r	n (6.23 ft) Observe	Recognize	Identify		Smart Illumination	Yes
DON		91.0 m	36.4 m	18.2 m	9.1 m		Defog	Yes
DORI Distance	2.8 mm	(298.56 ft)	(119.42 ft)	(59.71 ft)	(29.86 ft)		Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support $90^{\circ}/270^{\circ}$ with 2688×1520 resolution and lower)
	3.6 mm	107.6 m (353.02 ft)	43.0 m (141.08 ft)	21.5 m (70.54 ft)	10.8 m (35.43 ft)		Mirror	Yes
Intelligent							Privacy Masking	8 areas
IVS (Perimeter Protection)		Tripwire; intrusion (Support the classification and accurate detection of vehicle and human)					Audio	
SMD 4.0	SMD 4.0		Less false alarm, longer detection distance				Built-in MIC	Yes
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
							Alarm	
Quick Pick		With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events Adopt deep learning algorithms to adjust the parameter				'S	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
AI SSA		of the image to suit the conditions.					Network	
							Network	RJ-45 (10/100 Base-T)
							SDK and API	Yes

TD0EIS830LIR2-A-PD

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Cyber Security	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			
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: 5.2 W (12 VDC); 5.5 W (PoE) Max. (pulling stream+warning light+speaker+warm ligh on): 9.2W (DC12 V) 10.2 W (POE)			
Environment				
Operating Conditions	-40°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			

110.9 mm \times Φ 122.0 mm (4.37" \times Φ 4.80")

745 g (1.64 lb) 915 g (2.02 lb)

Dimensions

Net Weight

Gross Weight

Ordering Information							
Туре	Model	Description					
8MP	DH-IPC-HDW3849H-AS-PV	8 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera					
Camera	IPC-HDW3849H-AS-PV	8 MP Smart Dual Illumination Active Deterrence Fixed-focal Eyeball WizSense Network Camera					
	PFA137	Junction Box					
	PFB205W-E	Wall Mount Bracket					
	PFA109	Mount Adapter					
Accessories	PFB220C	Ceiling Mount Bracket					
(Optional)	PFA152-E	Pole Mount Bracket					
	PFM321D	12 VDC 1A Power Adapter					
	PFM900-E	Integrated Mount Tester					
	TF-P100	MicroSD Memory Card					

Accessories

Optional:

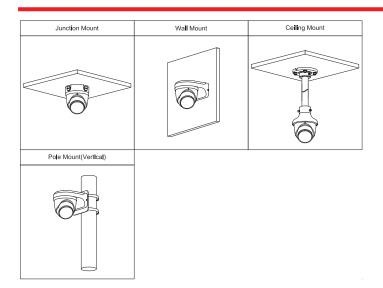


PFA13A-E Junction Box



PFB203W Wall Mount Bracket

TD0EIS830LIR2-A-PD



Dimensions (mm[inch])

