

TD0EIS530L2A-PD

5MP Full-color Active Deterrence Fixed-focal Eyeball Network Camera



Series Overview

With advanced deep learning algorithm, TOUGHDOG network camera supports intelligent functions, such as perimeter protection and smart motion detection. In addition, with full-color technology, it provides a better image effect in the condition of low illuminance.

Functions

SMD Plus

With intelligent algorithm, TOUGHDOG 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.

Full-color

With high-performance sensor and large aperture lens, TOUGHDOG Full-color technology can display clear colorful image in the environment of ultra-low illuminance. With this photosensitivity technology, the camera can capture more available light, and display more colorful image details.

Siren and Light Active Deterrence

TOUGHDOG's siren and light active deterrence network camera supports 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.

- 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- Outputs max. 5MP (2592 \times 1944) @20 fps, and supports 4MP (2688 \times 1520) @25/30 fps
- H.265 codec, high compression rate, low bit rate
- Built-in warm illuminator, and the max. illumination distance: 30 m
- ROI, SMART 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 detection: Intrusion, tripwire (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.
- Supports sound and light alarm linkage. When an alarm is triggered, the camera links sound alarm and light flashing.
- Supports one-tap disarming. You can disarm the events of alarm output, sending email, audio, and light in the configured period.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and spearker
- 12V DC/PoE power supply
- IP67 protection
- SMD Plus
- Red and blue flashlight alarm













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



Technical Specification							Bit Rate Control	CBR/VBR
Camera							Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
Image Sensor		1/2.7"5Megapixel progressive CMOS					Day/Night	Color/B/W
Max. Resolution		2592 (H) × 1944 (V)					BLC	Yes
ROM		128 MB					HLC	Yes
RAM		512 MB					WDR	120 dB
Scanning System		Progressive					Scene Self-adaptation	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					(SSA)	Auto/natural/street lamp/outdoor/manual/regional
Min. Illumination		0.003 Lux @ F1.0					White Balance	custom
S/N Ratio		> 56 dB					Gain Control	Auto/Manual
Illumination Distance		30 m (98.4 ft)					Noise Reduction	3D NR
Illuminator On/Off Control		Auto/Manual					Motion Detection	OFF/ON (4 areas)
Illuminator Number		1 (Warm light)					Region of Interest (RoI)	Yes (4 areas)
		Pan: 0°–360°					Smart Illumination	Yes
Pan/Tilt/Rotation Range		Tilt: 0°–78° Rotation: 0°–360°					Image Rotation	$0^{\circ}/90^{\circ}/180^{\circ}/270^{\circ}$ (Support with 1080p resolution and lower)
Lens							Mirror	Yes
Lens Type		Fixed-focal					Privacy Masking	4 areas
Mount Type		M12					Audio	
Focal Length		2.8 mm; 3.6 mm					Built-in MIC	Yes
Max. Aperture		F1.0					Audio Compression	PCM; G.711a; G.711Mu; G.726; G.723
Field of View		2.8 mm: Horizontal 103° × Vertical 53° × Diagonal 122° 3.6 mm: Horizontal 81° × Vertical 43° × Diagonal 95°					Alarm	
Iris Type		Fixed					Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene
Close Focus Distance		2.8 mm: 1.2 m (3.9 ft) 3.6 mm: 2.1 m (6.9 ft)						
	Lens	Detect	Observe	Recognize	Identify			changing; audio detection; voltage detection; external alarm; SMD; safety exception; light alarm; sound alarm (11 built-in sounds and custom voices importing)
DORI Distance	2.8 mm	67.4 m (221.1 ft)	27 m (88.6 ft)	13.5 m (44.3 ft)	6.7 m (22.0 ft)		Network	
	3.6 mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)		Network	RJ-45 (10/100 Base-T)
Professio	nal, intellige	ent					SDK and API	Yes
IVS (Perimeter Protection)		Tripwire; intrusion (support the classification and accurate detection of vehicle and human)					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
Intelligent Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.						Video encryption; firmware encryption; configuration encryption; Digest; WSSE; account lockout; security logs;
Video							Cyber Security	IP/MAC filtering; generation and importing of X.509 certification; syslog; HTTPS; 802.1x; trusted boot; trusted execution; trusted upgrade
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)					Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone;
Smart Codec		Smart H.265+/Smart H.264+					User/Host	Genetec; P2P 20 (Total bandwidth: 80 M)
Video Frame Rate		Main stream: 2592 × 1944 @1-20 fps 2688 × 1520 @1-25/30 fps Sub stream: 704 × 576 @1-25 fps/704 × 480 @ 1-20fps					Storage	FTP; SFTP; Micro SD card (support max. 256 G);NAS
Stream Capability		Third stream: 1920 × 1080 @1-25/30 fps 3 streams					Browser	IE: IE8 and later
Resolution		3 streams 5M (2592 × 1944); 4M (2688 × 1520); 4M (2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 ×						Chrome Firefox Safari: Safari 12 and later
		960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (354 × 288/354 × 240)				Management Software	TDSMS, TD Viewer Pro	



Mobile Phone	IOS; Android				
Certification					
Certification	CE-LVD: EN62368-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B				
Port					
Audio Input	1 channel (RCA port)				
Audio Output	1 channel (RCA port)				
Alarm Input	1 channel in: 5mA 3V–5V DC				
Alarm Output	1 channel out: 300mA 12V DC				
Power					
Power Supply	12V DC/PoE (802.3af)				
Power Consumption	Basic power consumption: 2.5W (12V DC); 3.0W (PoE) Max. power consumption (WDR + H.265 + red and blue lights flashing alternately + warm light + sound alarm): 7.3W (12V DC); 8.0W (PoE)				
Environment					
Operating Conditions	-40° C to $+60^{\circ}$ C (-40° F to $+140^{\circ}$ F)/Less than 95% RH				
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)				
Protection Grade	IP67				
Structure					
Casing	Metal				
Dimensions	Φ122.0 mm × 110.9 mm (Φ4.8" × 4.4")				
Net Weight	754 g (1.7 lb)				
Gross Weight	915 g (2.0 lb)				

Accessories

Optional







PFB203W Wall Mount



PFA152-E Pole Mount



SD64/SD128/SD256 TLC SD Card

Junction Mount	Wall Mount	Celling Mount
Pole Mount(Vertical)		

Dimensions (mm[inch])

