

TDODIY550L2-AI

5MP FIXED-FOCAL DOME NETWORK CAMERA



Series Overview

With starlight solution and deep learning algorithm, TOUGHDOG network camera has various intelligent functions, including face capture, perimeter protection and people counting, which greatly improve the accuracy of video analysis. The series camera supports dust-proof function, waterproof function and vandal-proof function, com-plying with the standards of IP67 and IK10 (Supported by some select models).

Functions

Smart Dual Illumination

TOUGHDOG Smart Dual Illumination technology adopts deep learning algo-rithm to detect targets. Usually, the IR illumination is on at night; when the target appears in the monitoring area, the white 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 white light is off and the IR illumination is on, which reduces light pollution efficiently.

Face Detection

TOUGHDOG Face Detection technology can detect the face in the image. With deep learning algorithm, the technology supports detecting, track-ing, capturing and selecting the best face image, and then outputs face snapshot.

People Counting

With deep learning algorithm, TOUGHDOG People Counting technology can track and process moving human body targets to realize the accurate statistics of enter No., leave No., and In Area No. Working with manage-ment platform, it outputs yearly/monthly/weekly/daily reports to meet your requirements.

- · 5MP, 1/2.7" CMOS image sensor, low illuminance, high image definition
- \cdot Outputs max. 5MP (2592 × 1944) @20 fps, and supports 2688×1520 (2688 × 1520) @25/30 fps
- · H.265 codec, high compression rate, ultra-low bit rate
- · Built-in high-efficiency warm light and IR LED, and Max. IR distance: 50 m
- · ROI, SMART H.264+/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- · Rotation mode, WDR, 3D DNR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- · Intelligent detection: Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human), abandoned object, missing object, loitering detection, people gathering, parking detection, heat map and face detection.
- 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.
- \cdot Sound and light alarm linkage. When the alarm is triggered, the sound and light will be linked.
- · Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 256 G Micro SD card, built-in Mic and speaker.
- · 12V DC/PoE power supply
- · IP67, IK10 protection













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.

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.

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

Technical Specification							Face detection; track; optimization; snapshot; face
Camera						Face Detection	enhancement; face exposure; face matting setting: face, single inch photo; three snapshot methods: real-
Image Sensor		1/2.7"5Megapixel progressive CMOS					time snapshot, optimization snapshot, quality priority; face angle filter; optimization time setting
Max. Resolution		2592 (H) × 1944 (V)				People Counting	Support the counting of enter number, leave number and pass numbe, and displaying and outputting yearly/ monthly/daily reports.support people counting in area,
ROM		128 M				Intelligent Search	Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos.
RAM		512 M					
Scanning Syste		Progressive				Video	
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100,000 s				Video Compression	H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream)
Min. Illumination		0.005 Lux				Smart Codec	Smart H265+/H264+
S/N Ratio		>56 dB				S.mar t Goules	
Illumination Distance		2.8 mm: 30 m (98.4 ft) 3.6 mm: 30 m (98.4 ft) 6 mm: 50 m (164.0 ft)					PAL Main stream: 2592 × 1944 @1-20 fps/2688 × 1520 @1-25 fps Sub stream: 704 × 576 @1-25 fps Third stream: 1920 × 1080 @1-11 fps NTSC Main stream: 2592 × 1944 @1-20 fps/2688 × 1520 @1-30 fps Sub stream: 704 × 576 @1-30 fps Third stream: 1920 × 1080 @1 fps
Illuminator On/Off Control		Auto/Manual				Video Frame Rate	
Illuminator Number		2 (IR LED); 1 (Warm light)					
Pan/Tilt/Rotation Range		Pan: 0°–355° Tilt: 0°–80° Rotation: 0°–355°					
Lens						Stream Capability	3 streams
Lens Type		Fixed-focal					5M (2592 × 1944); 4M (2688 × 1520); 4M (2560 × 1440); 3M (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)
Mount Type		M12				Resolution	
Focal Length		2.8 mm; 3.6 mm; 6 mm				Bit Rate Control	CBR/VBR
Max. Aperture		2.8 mm: F1.6 3.6 mm: F1.6 6 mm: F1.6				Video Bit Rate	H.264: 32 kbps-8192 kbps H.265: 12 kbps-8192 kbps
Field of View		2.8 mm: Horizontal 98° × Vertical 71° × Diagonal 129° 3.6 mm: Horizontal 80° × Vertical 58° × Diagonal 107°				Day/Night	Auto (ICR)/Color/B/W
I ICIU UI VIEW		6 mm: Horizontal 50° × Vertical 37° × Diagonal 64°				BLC	Yes
Iris Type		Auto				HLC	Yes
Close Focus Distance		2.8 mm: 0.9 m (3.0 ft) 3.6 mm: 1.6 m (5.2 ft)				WDR	120 dB
		6 mm: 3.2 m (10.5 ft)				Scene Self-adaptation	Yes
	Lens	Detect 56.0 m	Observe 22.4 m	Recognize	Identify 5.6 m	White Balance	Auto/natural/street lamp/outdoor/manual/regional custom
DORI	2.8mm	(183.7 ft)	(73.5 ft)	(36.7 ft)	(18.4 ft)	Gain Control	Auto/Manual
Distance	3.6mm	80.0 m (262.5 ft)	32.0 m (105.0 ft)	16.0 m (52.5 ft)	8.0 m (26.2 ft)	Noise Reduction	3D DNR
	6mm	120.0 m (393.7 ft)	48.0 m (157.5 ft)	24.0 m (78.7 ft)	12.0 m (39.4 ft)	Motion Detection	OFF/ON (4 areas)
Smart event						Region of Interest (RoI)	Yes (4 areas)
IVS		Abandoned object; missing object				Smart Illumination	Yes
Heat Map		Yes				Defog	Yes
Professional	l, intelligent					Image Rotation	0°/90°/180°/270°
						Mirror	Yes
1) (6 /5	Donate 11	Tripwire; intrusion; fast moving (the three functions support the classification and accurate detection				Privacy Masking	4 areas
IVS (Perimeter	Protection)	of vehicle ar	nd human); loit arking detecti	ering detectio		Audio	
						Built-in MIC	Yes

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Audio Compression	PCM; G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1; G.729; G.723		
Alarm			
Alarm Event	No SD card; SD card full; SD card error; service life warning; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; defocus detection; external alarm; face detection; people counting in area; stay alarm; people counting; people No. exception detection; safety exception; light alarm; sound alarm (21 built-in sounds and custom voices importing)		
Network			
Network	RJ-45 (10/100 Base-T)		
SDK and API	Yes		
Protocol	IPv4; IPv6; HTTP; HTTPS; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; 802.1x; SNMP		
Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; Milestone; Genetec		
User/Host	20 (Total bandwidth: 80 M)		
Storage	TOUGHDOG Cloud (only supported by TOUGHDOG version); FTP; SFTP; Micro SD card (Support max. 256-G)		
Browser	IE: IE8, IE9, IE11 Chrome Firefox		
Management Software	Smart PSS; DSS; DMSS		
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 UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07		
Port			
Audio Input	1 channel (RAC port)		
Audio Output	1 channel (RAC port)		
Alarm Input	1 channel in: 5mA 3V–5V DC		
Alarm Output	1 channel out: 300mA 12V DC		
Power			
Power Supply	12V DC/PoE		
Power Consumption	<8.6W		
Environment			
Operating Conditions	-40°C to +60°C (-40°F to +140°F)/Less than 95% RH		
Strorage Conditions	-40°C to +60°C (-40°F to +140°F)		
Protection Grade	IP67; IK10		
Structure			
Casing	Metal		

Dimensions	105 mm × Φ126 mm (4.1" × Φ5.0")
Net Weight	716.4 g (1.6 lb)
Gross Weight	929.7 g (2.0 lb)

Accessories

Optional:





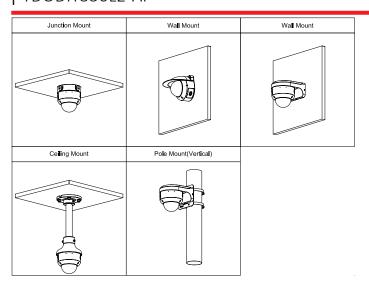


Pole Mount

Junction Box

Wall Mount

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Dimensions (mm/inch)

