

TDOEIS450MS-AI

4MP IR Vari-focal Eyeball Network Camera



Functions

SMD Plus

With intelligent algorithm, TD 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, TD 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.

Perimeter Protection

With deep learning algorithm, TD Perimeter Protection technology can recognize human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), the false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

WDR

With advanced Wide Dynamic Range (WDR) technology, TD network camera provides clear details in the environment of strong brightness contrast. The bright and dark area can get clear video even in high brightness environment or with backlight shadow.

- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688× 1520)@20fps and supports 2560 × 1440 (2560× 1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 40 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 monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human).
- Abno rmality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- · Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- · SMD Plus.













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

TD0EIS450MS-AI

Technical Specification							Stream Capability	2 streams
Camera								2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 × 1440);
Image Sensor		1/2.9" CMOS					Resolution	2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 ×
Max. Resolu	tion	2688 (H) × 1520 (V)						480); VGA (640 × 480); CIF (352 × 288/352 × 240)
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		128 MB					Video Bit Rate	H.264: 32 kbps-6144 kbps H.265: 12 kbps-6144 kbps
Scanning System		Progressive					Day/Night	Auto(ICR)/Color/B/W
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					BLC	Yes
Min. Illumination		0.008 lux@F1.5(Color,30IRE) 0.0008 lux@F1.5(B/W,30IRE)					HLC	Yes
200		0 lux (Illumin ator on)					WDR	120 dB
S/N Ratio	Distance	>56 dB 40 m (131.23 ft) (IR LED)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator On/Off Control		Auto; Manual					Gain Control	Manual;Auto
Illuminator N	Number	2 (IR LED)					Noise Reduction	3D NR
		Pan: 0°–360°					Motion Detection	OFF/ON (4 areas, rectangular)
Pan/Tilt/Rotation Range		Tilt: 0°-78° Rotation: 0°-360°					Region of Interest (RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type		Motorized vari-focal					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Lens Mount		ф14					Mirror	Yes
Focal Length		2.7 mm-13.5 mm					Privacy Masking	4 areas
Max. Apertu	ire	F1.5					Audio	
Field of View	V	H: 104°-29°; V: 54°-16°; D: 125°-34°					Built-in MIC	Yes
Iris Control		Fixed					Audio Compression	G.711a; G.711Mu; G.726; PCM
Close Focus Distance		0.8 m (2.62 ft)					Alarm	
DORI Distance	Lens W	Detect 64.0 m (209.97 ft)	Observe 25.6 m (83.99 ft)	12.8 m (41.99 ft)	6.4 m (20.99 ft)		Alarm Event	No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; defocus detection; SMD; security exception
	Т	210.0 m (688.97 ft)	84.0 m (275.59 ft)	42.0 m (137.80 ft)	21.0 m (68.90 ft)			
Intelligen	nce	(666.57 1.67	(275.55 10)	(257.051.4)	(00.50 1.0)		Network	
8	.00	Intrusion, tripwire (the two functions support the					Network Port	RJ-45 (10/100 Base-T)
IVS (Perimet	er Protection)	classification and accurate detection of vehicle and human)					SDK and API	Yes
Smart Search		Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos					Network Protocol	IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP
Video							Interoperability	ONVIF (Profile S/Profile T); CGI; P2P; Milestone
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only suppor ted by the sub stream)					User/Host	6 (Total bandwidth: 36 M)
Smart Codec		Smart H.265+ Smart H.264+					Storage	FTP; SFTP; Micro SD card (support m ax. 256 GB)
		Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@ (1–25/30 fps)					Browser	IE Chrome Firefox
Video Frame Rate		Sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the may frame rates of each					Management Software	Smart PSS; DSS; DMSS
		*The values ab ove are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.					Mobile Client	iOS; And roid

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Video encryption; Configuration encryption; Digest;
WSSE; Account lockout; Security logs; IP/MAC filtering;
Cyber Security
Generation and importing of X.509 certification; syslog;
HTTPS;802.1x; Trusted boot; Trusted execution; Trusted

Certi**fi**cation

CE-LVD:EN62368-1;
CE-EMC:Electromagnetic Compatibility Directive 2014/30/EU;
FCC: 47 CFR FCC Part 15, Subpart B

Power

Environment

Operating Temperature	−30 °C to +60 °C (−22 °F to +140 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40°F to +140°F)
Protection	IP67

Structure

Casing Material	Metal
Product Dimensions	108.3 mm × Φ122 mm (4.26" × Φ4.80")
Net Weight	0.86 kg (1.90 lb)
Gross Weight	0.69 kg (1.52 lb)

Ordering Information						
Туре	Model	Description				
4MP Camera	TDOEIS450MS-AI	4MP IR Vari-focal Eyeball WizSense Network Camera				
Accessories	PFA130-E	Junction Box				
(Optional)	PFA152-E	Pole Mount Bracket				

Accessories

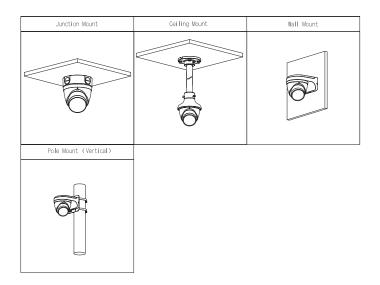
Optional:





PFA130-E Junction Box

PFA152-E Pole Mount Bracket



Dimensions (mm[inch])

