

TDOEIA8302SA-AI

8MP IR Fixed-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-qual ity 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.

- 8-MP 1/2.7" CMOS image sensor, low lum inance, and high de finition image.
- Outputs max. 8 MP (3840 \times 2160) @20 fps, and supports 2688 \times 1520 (2688 \times 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, and the max. illuminatio n distance is 30 m.
- ROI, SMART H.264+/H.265+, **fl**exible coding, applicable to various band width and storage environments.
- Rotation mod e, WDR, 3D NR, HLC, BLC, digital watermarking, applic able to various monitoring scenes.
- Intelligent monitoring: Intrusion, tripwire (the two functions support the classification and a ccurate detection of vehicle and human).
- Abnormality 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.
- IP67 protection.
- · SMD Plus.













WDR

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

Cyber Security

TD 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 ag ainst external cyber threats and prevent malicious programs from compromi sing the device.

Protection (IP67, Wide Voltage)

IP67: The camera passes a series of strict test on dust and so ak. 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 so me power supplies) input voltage tolerance (wide voltage range), and it is widely applied to outdoor enviro nment with instable voltage.

TDOEIA8302SA-AI

Technical Specification				Stream Capability	2 streams			
Camera							3840 × 2160 (3840 × 2160); 3072 × 2048 (3072 × 2048);	
Image Sensor		1/2.7" CMOS					Resolution	3072 ×1728 (3072 × 1728); 2880 × 1620 (2880 × 1620); 2688 × 1520 (2688 × 1520); 3M (2048 × 1536); 2304 ×
Max. Resolution		3840 (H) × 2160 (V)					1296 (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)	
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB					Video Bit Rate	H.264: 32 kbps–8192 kbps
Scanning Sys	stem	Progressive					Video Bit Rate	H.265: 12 kbps–8192 kbps
Electronic Sh	nutter Speed	Auto/Manua	l 1/3 s–1/100,0	000 s			Day/Night	Auto(ICR)/Color/B/W
Min. Illumin	ation	0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (B/W, 30 IRE)					BLC	Yes
William Indiana	ation	0.0009 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					HLC	Yes
S/N Ratio		>56 dB					WDR	120 dB
Illumination	Distance	98 ft (IR)					White Balance	Auto; natural; street lamp; outdoor; manual; regional custom
Illuminator (On/Off Control	Auto; Manua	I				Gain Control	Auto; Manual
Illuminator N	Number	1 (IR LED)					Noise Reduction	3D NR
Pan/Tilt/Rot	tation Range	Pan: 0°-360° Tilt: 0°-78°					Motion Detection	OFF/ON (4 areas, rectangular)
Long		Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type Lens Mount		Fixed-focal M12					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower)
Focal Length	1	2.8 mm					Mirror	Yes
Max. Apertu		F2.0					Privacy Masking	4 areas
Field of View		2.8 mm · H · 1	06° V 56° D	125°			Audio	
	v	2.8 mm: H: 106°; V: 56°; D: 125°					Built-in MIC	Yes
Iris Control		Fixed					Audio Compression	G.711a; G.711Mu; PCM; G.726
Close Focus	Distance	2.8 mm: 1.3 m (4.27 ft)					Alarm	
	Lens	Detect	Observe	Recognize	Identify			No SD card; SD card full; SD card error; network
DORI Distance	2.8 mm	88.0 m (288.71 ft)	35.2 m (115.49 ft)	17.6 m (57.74 ft)	8.8 m (28.87 ft)		Alarm Event	disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security exception
							Network	
Intelliger	nce						Network Port	RJ-45 (10/100 Base-T)
IVS (Perimet	er Protection)	Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and					SDK and API	Yes
Smart Search		human) 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; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; PPPoE; Boujour
Video							Interoperability	ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone
Video Compression		H.265; H.264; H.264H; H.264B; MJPEG (Only supported by the sub stream)					User/Host	20 (Total bandwidth: 48 M)
Smart Codec		Smart H.265+; Smart H.264+					Storage	FTP; SFTP; Micro SD card (support max. 256 GB); NAS
		Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30					Browser	IE Chrome Firefox
Video Frame Rate		fps) *The values above are the max. frame r ates of each				Management Software	Smart PSS; DSS; DMSS	
		stream; for multiple streams, the values will be subjected to the total encoding capacity.					Mobile Client	iOS; Android
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TDOEIA8302SA-AI

Configuration encryption; Trusted execution; Digest;
Security logs; WSSE; Account lockout; syslog; Video

Cyber Security encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certification

Certi**fi**cation

CE-LVD: EN62368-1;
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

Power

Power Supply	12 VDC/PoE (802.3af)		
Power Consumption	Basic: 2.7 W (12 VDC); 3.4 W (PoE) Max. (H.265+ max. resolution + max. stream+ WDR + IR intensity + IVS): 4.5 W (12 VDC): 5.4 W (PoF)		

Environment

Operating Temperature	-40 °C to +55 °C (-40 °F to +131 °F)
Operating Humidity	≤95%
Storage Temperature	-40 °C to +60 °C (-40 °F to +140 °F)
Storage Humidity	≤95%
Protection	IP67

Structure

Casing Material	Inner core: Metal Cover: Metal Decoration ring: Plastic Quick install mounting plate: Metal
Product Dimensions	99.1 mm × Φ121.9 mm (3.90"× Φ4.80")
Net Weight	0.48 kg (1.06 lb)
Gross Weight	0.68 kg (1.50 lb)

Ordering Information				
Туре	Model	Description		
8MP Camera	TDOEIA8302SA-AI	8MP IR Fixed-focal Eyeball Network Camera		
Accessories (Optional)	PFA139	Water-proof Junction Box		
(Ориона)	PFB204W	Water-proof Wall Mount Bracket		

Accessories

Optional:







PFA139 Water-proof Junction Box

Junction Mount	Ceiling Mount	Wall Mount
Pole Mount(Vertical)		



