

TDOEIA8302SA-AI

8MP IR Fixed-focal Eyeball Network Camera



image. • Outp uts max. 8 MP (3840 × 2160) @20 fps, and supports 2688 × 1520

• 8-MP 1/2.7" CMOS image sensor, low lum inance, and high de finition

- (2688 × 1520) @25/30 fps. • H.265 codec, high compre ssion rate, ultra-low bit rate.
- Built-in IR LED, and the max. illumination distance is 30 m.
- ROI, SMART H.264+/H.265+, flexible 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).
- Abn ormality detection: Motion detection, vi deo tampering, audio detection, no SD card, SD card full, SD card error, network disconnection, IP con **fli**ct, illegal access, and voltag e detection.
- Supports max. 256 G Micro SD card; built in MIC.
- 12 VDC/PoE power s upply.
- 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 nm ent with instable voltage.

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 recogniz e human and vehicle accurately. In restricted area (such as pedestrian area and vehicle area), t he false alarms of intelligent detection based on target type (such as tripwire, intrusion) are largely reduced.

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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 × 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)
Max. Resolution		3840 (H) × 2160 (V)					Resolution	
ROM		128 MB					Bit Rate Control	CBR/VBR
RAM		256 MB						H.264: 32 kbps-8192 kbps
Scanning System		Progressive					Video Bit Rate	H.265: 12 kbps-8192 kbps
Electronic Shutter Speed		Auto/Manual 1/3 s-1/100,000 s					Day/Night	Auto(ICR)/Color/B/W
Min. Illumination		0.009 lux@F2.0 (Color, 30 IRE) 0.0009 lux@F2.0 (B/W, 30 IRE) 0 lux (Illuminator on)					BLC	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; Manual					Gain Control	Auto; Manual
Illuminator Number		1 (IR LED)					Noise Reduction	3D NR
Pan/Tilt/Rotation Range		Pan: 0°–360° Tilt: 0°–78°					Motion Detection	OFF/ON (4 areas, rectangular)
		Rotation: 0°–360°					Region of Interest (RoI)	Yes (4 areas)
Lens							Smart Illumination	Yes
Lens Type		Fixed-focal					Image Rotation	0°/90°/180°/270° (Support 90°/270° with 2688 × 1520
Lens Mount		M12					Mirror	resolution and lower) Yes
Focal Length		2.8 mm					Privacy Masking	4 areas
Max. Aperture		F2.0					Audio	+ arcas
Field of View		2.8 mm: H: 106°; V: 56°; D: 125°					Built-in MIC	Yes
Iris Control		Fixed						
Close Focus Distance		2.8 mm: 1.3 m (4.27 ft)					Audio Compression	G.711a; G.711Mu; PCM; G.726
	Lens	Detect	Observe	Recognize	Identify		Alarm	
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	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; SMD; security exception
							Network	
Intelligen	се						Network Port	RJ-45 (10/100 Base-T)
IVS (Perimeter 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
Video Frame Rate		Main stream: 3840 × 2160@(1–20 fps)/2688 × 1520@ (1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(1–30 fps) *The values above are the max. frame r ates of each stream; for multiple streams, the values will be subjected to the total encoding capacity.					Browser	IE Chrome Firefox
							Management Software	Smart PSS; DSS; DMSS
							Mobile Client	iOS; Android

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Cyber Security	Configuration encryption; Trusted execution; Digest; Security logs; WSSE; Account lockout; syslog; Video encryption; 802.1x; IP/MAC filtering; HTTPS; Trusted upgrade; Trusted boot; Firmware encryption; Generation and importing of X.509 certification					
Certification						
Certifications	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 + I intensity + IVS): 4.5 W (12 VDC); 5.4 W (PoE)					
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)					

Accessories

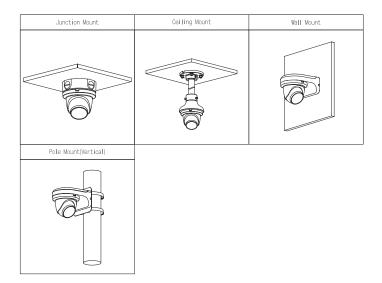
Optional:



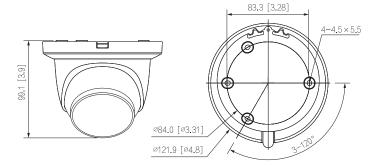
PFA139 Water-proof Junction Box



PFB204W Water-proof Wall Mount Bracket



Dimensions (mm[inch])



Ordering Information

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