

TDOEIA4302SA-AI

4MP WDR IR Eyeball Network



Functions

Smart (H.265+ & H.264+)

Adopting advanced algorithm of auto stream control according to the environment, TOUGHDOG smart encoding technology realizes the higher efficiency than (H.265 & H.264), providing high-quality video, and reducing the cost of storage and transmission.

Wide dynamic range (WDR)

TOUGHDOG adopts advanced Wide Dynamic Range (WDR) technology. You can get clear details in the environment of strong brightness contrast. In high brightness and back- light environment, bright region and dark region with strong light source, you can also get clear images.

- 4MP, 1/3" CMOS image sensor, low illuminance, high image definition
- Outputs 4MP (2560 × 1440)@25/30 fps, Max. supports 4MP (2688 × 1520) @ 20 fps
- H.265 codec, high compression rate, ultra-low bit rate
- Built-in IR LED, max IR distance: 30 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
- Abnormality detection: Motion detection, video tampering, no SD card, SD card full, SD card error, network disconnected, IP conflict, illegal access, voltage detection
- Supports max. 256 GB Micro SD card, built-in Mic
- 12V DC/PoE power support
- IP67 protection













Starlight

TOUGHDOG Starlight technology mainly applies to the environment of low illumination, and it can provide clear colorful video. Even in the envi-ronment of min. illumination, the technology can guarantee the good image effect.

Intelligent Video Analysis (IVS)

With advanced video algorithm, TOUGHDOG camera supports intelligent detection, such as tripwire and intrusion and so on.

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.

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						SECURITY	
Technical Specification							2688 × 1520 (2688 × 1520); 2560 × 1440 (2560 ×
Camera						Resolution	1440); 2304 × 1296 (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704
Image Sensor		1/3" 4Megapixel progressive CMOS					× 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Effective Pixels		2688 (H) × 1520 (V)				Bit Rate Control	CBR/VBR
ROM		128 MB				Video Bit Rate	H.264: 32 Kbps–6144 Kbps H.265: 12 Kbps–6144 Kbps
RAM	RAM					Day/Night	Auto(ICR)/Color/B/W
Scanning System		Progressive				BLC	Yes
Electronic Shutter Speed		Auto/Manual 1/3 s–1/100000 s				HLC	Yes
Min. Illumination		0.008 Lux @ F1.6				WDR	120 dB
IR Distance		30 m (98.43 ft)				White Balance	Auto/natural/street lamp/outdoor/manual/regional
IR On/Off Cont	trol	Auto/Manual				Gain Control	custom Auto/Manual
IR LEDs Numbe	er	2				Noise Reduction	3D DNR
Pan/Tilt/Rotat	ion Range	Pan: 0°–360 Tilt: 0°–78°				Motion Detection	OFF/ON (4 areas, rectangular)
Lama		Rotation: 0°-	–360°			Region of Interest(RoI)	Yes (4 areas)
Lens		Fixed-focal					
Lens Type						Smart IR	Yes
Mount Type		M12 2.8 mm				Image Rotation	0°/90°/180°/270° (Supports 90°/270° with 1080p resolution and lower.)
Focal Length						Mirror	Yes
Max. Aperture		F1.6				Privacy Masking	4 areas
		2.8 mm:				Audio	
Field of View		Pan: 102.0° Tilt: 55.0°				Built-in MIC	Yes
		Diagonal: 12	21.0°			Audio Compression	G.711A; G.711Mu; G.726; AAC
						Network	
Iris Type		Fixed aperture				Network	RJ-45 (10/100 Base-T)
Close Focus Distance DORI Lens		2.8 mm: 0.9 Detect 56 m	m (2.95 ft) Observe	Recognize	Identify 5.6 m	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; PPPoE; 802.1x; Bonjour
Distance	2.8 mm	(183.73 ft)	(73.49 ft)	(36.75 ft)	(18.37 ft)	Interoperability	ONVIF(Profile S/Profile G/Profile T);CGI; P2P; Milestone; Genetec
Smart ever	nt					User/Host	20
General IVS Analytics		Tripwire; intrusion				Edge Storage	TOUGHDOG Cloud; FTP; SFTP; Micro SD Card (support max. 256 GB); NAS
Video							IE
Video Compression		H.265; H.264	4; H.264B; MJ	PEG		Browser	Chrome Firefox
Smart Codec		Yes				Management Software	TD-SMS; DSS; ToughDog Viewer Pro
		Main stream:				Mobile Phone	IOS; Android
Video Frame Rate		2560 × 1440) (1 fps-20 fps)) (1 fps-25/30			Certification	
		Sub stream: 704 × 576 (1 fps-25 fps) 704 × 480 (1 fps-30 fps)				Certifications	CE-LVD: EN60950-1 CE-EMC: Electromagnetic Compatibility Directive 2014/30/EU FCC: 47 CFR FCC Part 15, Subpart B
Stream Capability		2 streams					UL/CUL: UL60950-1 CAN/CSA C22.2 No.60950-1-07

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Power

Power Supply	12V DC/PoE (802.3af)
Power Consumption	< 6.6W

Environment

Operating Conditions	-40°C to $+60$ °C (-40 °F to $+140$ °F)/less than ≤ 95% RH		
Storage Temperature	-40°C to +60°C (-40°F to +140°F)		
Protection	IP67		

Structure

Casing	Metal + Plastic
Dimensions	(3.97" × Ф4.33")
Net Weight	0.39 kg (0.9 lb)
Gross Weight	0.56 kg (1.2 lb)

Ordering Information

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Туре	Part Number	Description
	PFA130-E	Junction Box
Accessories (optional)	PFB204W	Wall Mount
	PFA152-E	Pole Mount

Accessories

Optional:



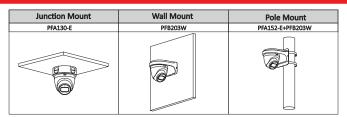




PFB204W Wall Mount



PFA152-E Pole Mount



Dimensions (mm[inch])



