

TDPTZ8MP25IRST

8MP 25x Starlight IR Network PTZ Camera



Functions

Perimeter Protection

Automatically filtering out false alarms caused by animals, rustling leaves, bright lights, etc. Enables system to act secondary recognition for the targets. Improving alarm accuracy.

Starlight Technology

For challenging low-light applications, TOUGHDOG's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 Lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

PFA Technology

PFA technology has innovatively introduced new methods of judgment to ensure the accuracy and predictability of the direction of subject distance adjustment. The result is a set of advanced focusing algorithms. PFA ensures clarity of the image throughout the process of zooming and shortens focus time. The realization of PFA technology substantially improves user experience and increases product value.

- · 1/1.8" 8Megapixel CMOS
- · Powerful 25x optical zoom
- · Starlight Technology
- · Max. 25/30 fps@8 MP
- · IR distance up to 150 m
- · Deep-learning-based perimeter protection
- · Auto-tracking and IVS
- · PoE+
- · IP67, IK10













Environmental

TOUGHDOG cameras operate in extreme temperature environments, rated for use in temperatures from-40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP67 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for ±25% input voltage tolerance, suitable for the most unstable conditions for outdoor applications. Its 6KV lightning rating provides effective protection for both the camera and its structure against lightning.

Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) specifications, ensuring interoperability between network video products regardless of manufacturer.

Wide Dynamic Range

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

Auto-tracking

This feature controls the pan/tilt/zoom actions of the camera to automatically track an object in motion and to keep it in the scene. The tracking action can be triggered manually or automatically by defined rules. Once a rule is triggered, the camera can zoom in and track the defined target automatically.

Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Technical Specification		Event Trigger	Motion detection, video tampering, scene changing, Network disconnection, IP address conflict, illegal
Camera			access, and storage anomaly.
Image Sensor	1/1.8" STARVIS™ CMOS	Artificial Intelligence	Tripwire and intrusion. Support alarm triggering by
Pixel	8MP	Perimeter Protection	target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
Max. Resolution	3840 (H) × 2160 (V)	Auto tracking	lights, etc. Support
ROM	8 GB		зарроге
RAM	2 GB	Video	H 265 to H 265 to H 264 to H 264 to MIDEC (sub-standard)
Electronic Shutter Speed	1/1 s-1/30,000 s	Compression	H.265+; H.265; H.264+; H.264; MJPEG (sub stream)
Scanning System	Progressive	Streaming Capability	3 streams 4K (3840 x 2160); 1080p (1920 x 1080); 1.3M (1280
Min. Illumination	Color: 0.005 Lux@F1.6 B/W: 0.0005 Lux@F1.6 0 Lux (IR on)	Resolution	x 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288) Main stream: 8M/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/CIF (1–25/30 fps)
Illumination Distance	150 m (492.13 ft)	Frame Rate	Sub stream 2: 1080p/1.3M/720p (1–25/30 fps), D1/CIF (1–25/30 fps)
Illuminator On/Off Control	Zoom Prio/Manual/SmartIR	Bit Rate Control	Variable/Constant
Illuminator Number	4 (IR Light)	Bit Rate	H.264/H.265: 32 kbps-8192 kbps
Lens		Day/Night	Auto (ICR)/Color/B/W
Focal Length	5.4 mm-135 mm	BLC	Support
Max. Aperture	F1.6–F4.0	WDR	120 dB
Field of View	H: 61.6°-3.6°; V: 35.7°-2°; D: 66.6°-4°	HLC	Support
Optical Zoom	25x	White Balance	Auto/Indoor/Outdoor/Tracking/Manual/Sodium lamp/ Natural light/Street lamp
Focus Control	Auto/Semi-Auto/Manual	Gain Control	Auto/Manual
Close Focus Distance	0.5 m-7 m (1.64 ft-22.97 ft)	Noise Reduction	2D/3D
Iris Control	Auto/Manual	Motion Detection	Support
	Detect Observe Recognize Identify	Region of Interest (RoI)	Support
DORI Distance	2700 m 1066 m 540 m 270 m	Image Stabilization	Electronic
	(885.83 ft) (3497.38 ft) (1771.65 ft) (885.83 ft)	Defog	Support
PTZ		Digital Zoom	16x
Pan/Tilt Range	Pan: 0°–360° endless Tilt: -15°–+90°, auto flip 180°	Flip	0°/180°
Manual Control Speed	Pan: 0.1°–300°/s Tilt: 0.1°–200°/s	Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Preset Speed	Pan: 400°/s; Tilt: 300°/s	S/N Ratio	≥ 56 dB
Presets	300	Audio	
Tour	8 (up to 32 presets per tour)	Compression	G.711A; G.711Mu; G.726; AAC; G.722.1; G.723; G.729; PCM; MPEG2-Layer2
Pattern	5	Network	
Scan	5	Ethernet	RJ-45 (10/100Base-T)
Power-off Memory	Support	Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP; UPnP; SNMPv1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP
Idle Motion	Preset/Tour/Pattern/Scanning	Interoperability	ONVIF Profile S&G&T CGI;
Protocol	DH-SD Pelco-P/D (auto recognition)	Streaming Method	Unicast/Multicast
General Intelligence		User/Host	20 (total bandwidth 64M)
IVS	Object Abandoned/Missing	Storage	FTP; Micro SD card (256 G)



IDEIZOMEZOIKOI		
Browser	IE7 and later versions Chrome 42 and later versions Firefox 52ESR and earlier versions Safari	
Management Software	Smart PSS; DSS; Easy4ip	
Mobile Phone	iPhone/iPad/Android/Windows Phone	
Certifications		
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014 UL:UL60950-1+CAN/CSA C22.2,No.60950-1	
Port		

Audio I/O	1 (Line in; bare wire)/1 (Line out; bare wire)
Alarm I/O	2/1

Power

Power Supply	DC 24 V/2.5 A ± 25% PoE+ (802.3at)
Power Consumption	11 W 20 W (PTZ pan/tilt, IR on)

Environment

Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	≤ 95%

Structure

Casing	Metal
Dimensions	Φ190 mm × 332 mm (7.48" × 13.07")
Net Weight	4.7 kg (10.36 lb)
Gross Weight	8 kg (17.64 lb)

Ordering Information		
Туре	Model	Description
8MP PTZ Camera	TDPTZ8MP25IRST	8MP 25x Starlight IR Network PTZ Camera , PAL
	DEDOGEN/	
	PFB305W	Wall Mount Bracket
	DC 24 V/2.5 A	Power Adapter
	PFA111	Mount Adapter
Accessories	PFB300C	Ceiling Mount Bracket
	PFA120	Junction Box
	PFA150	Pole Mount Bracket
	PFB303S	Parapet Mount Bracket

Accessories

Included:



Wall Mount Bracket





DC 24 V/2.5 A Power Adapter

Optional:



PFA111 Mount Adapter



PFB300C Ceiling Mount Bracket



PFA120 Junction Box



PFA150 Pole Mount Bracket



PFB303S Parapet Mount Bracket



Wall Mount	Ceiling Mount
PFB305W	PFA111+PFB300C
Pole Mount(Vertical)	Pole Mount(Horizontal)
PFA150+PFB305W	PFA150+PFA111+PFB300C

Dimensions (mm[inch])



