

TDPTZ4MP4IRS

4M 4x Starlight IR Network PTZ Camera



- · 1/2.8" 4Megapixel STARVIS™ CMOS
- · Starlight technology
- · Max. 25/30fps@4MP
- · 4x optical zoom
- · Face Detection, People Counting, Perimeter Protection
- · IR distance up to 15m
- · SMD Plus
- · PoE
- · IP66, IK08

















System Overview

TOUGHDOG PTZ camera adopts advanced CNN deep learning algorithms to support perimeter protection with high accuracy. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

Functions

People Counting

People Counting function uses advanced image processing technology to capture depth information from within images. The camera pairs this information with deep learning algorithms to analyze and detect human bodies and track target objects in real time. The camera provides statistics for separate individuals' entrance and exit with up to 95% counting 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.

Environmental

TOUGHDOG cameras operate in extreme temperature environments, rated for use in temperatures from-30 °C to +60 °C (-22 °F to +140 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

Protection

The camera allows for $\pm 15\%$ 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.

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 optimizes both the bright and dark areas of a scene at the same time to provide usable video.

H.265+

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. H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.



Technical Specification				Artificial Intelligence		
Camera						Count people entering and exiting the area (crossing
Image Sensor	1/2.8" STAR	1/2.8" STARVIS™ CMOS			People Counting	people counting); count people staying in the area (in- area people counting); display and export reports by day, week and month.
Pixel	4MP	4MP			Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright
Max. Resolution	2560 (H) × 1	2560 (H) × 1440 (V)				
ROM	4GB				SMD Plus	lights, etc. Support
RAM	1GB				Face Detection	Support
Electronic Shutter Speed	1/1 s-1/30,0	1/1 s-1/30,000 s			Video	Support
Scanning System	Progressive	Progressive			video	H.265; H.264BaselineProfile; H.264MainProfile;
Min. Illumination		Color: 0.005Lux@F1.8 B/W: 0.0005Lux@F1.8			Compression Streaming Capability	H.264HighProfile; MJPEG (Sub Stream); H.265+; H.264+
Illumination Distance	15 m (49.21					4M (2560 x 1440); 3M (2048 x 1536); 1080P (1920 x
Illuminator On/Off Control	Zoom Prio/N	Manual/Smarti	IR		Resolution	1080); 1.3M (1280 x 960); 720P (1280 x 720); D1 (704 x 576/704 x 480); CIF (352 x 288/352 x 240)
Illuminator Number	3				Frame Rate	Main stream: 4M/3M (1–25/30fps), 1080P/1.3M/720P (1–25/30fps)
Lens				Traine Nate	Sub stream 1: D1/CIF (1–25/30fps) Sub stream 2: 720P (1–25/30fps), D1/CIF (1–25/30fps)	
Focal Length	2.8 mm-12	mm			Bit Rate Control	Variable Bit Rate/Constant Bit Rate
Max. Aperture	F1.8-F2.7				Bit Rate	H.264/H.265/MJPEG: 3 kbps–20480 kbps
·	H: 31.6°-96	H: 31.6°–96.9°			Day/Night	Auto (ICR)/Color/B/W
Field of View	V: 17.8°-51.4° D: 36.4°-116.2°				BLC	Support
Optical Zoom	4x	4x			WDR	120 dB
Focus Control	Auto/Semi-	Auto/Semi-Auto/Manual			HLC	Support
Close Focus Distance	0.2 m-0.5 m	0.2 m-0.5 m (0.66 ft-1.64 ft)			White Balance	Auto/Indoor/Outdoor/Track/Manual/Sodium lamp/ Natural light/Street lamp
Iris Control	Auto	Auto			Gain Control	Auto/Manual
	Detect	Observe	Recognize	Identify	Noise Reduction	2D/3D
DORI Distance	147.0 m (482.28 ft)	58.8 m (192.91 ft)	29.4 m (96.46 ft)	14.7 m (48.23 ft)	Motion Detection	Support
PTZ					Region of Interest (RoI)	Support
Pan/Tilt Range Pan: 0°–355°				Electronic Image Stabilization	Support	
	Tilt: 5°-90°				Electronic Defog	Support
Manual Control Speed	Tilt: 0.1°/s-3	Pan: 0.1°/s-70°/s Tilt: 0.1°/s-30°/s			Digital Zoom	16x
Preset Speed	Pan: 80°/s Tilt: 40°/s	Pan: 80°/s Tilt: 40°/s			Flip	0°/180°
Presets	300	300			Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
Tour	8 (up to 32 p	8 (up to 32 presets per tour)			Audio	
Speed Adjustment	Support				Compression	G.711a; G.711Mu; G.726; AAC; MPEG2-Layer2; G.722.1;
Power-off Memory	Support				Network	G.729; G.723
Idle Motion	Preset/Tour					RJ-45 (10/100Base-T)
General Intelligence				Ethernet	IPv4; IPv6; HTTP; HTTPS; 802.1x; Qos; FTP; SMTP;	
Motion detection, Video tampering, Scene changing, Event Trigger Network disconnection, IP address conflict, Illegal		Protocol	UPPP; SNMPv1/v2c/v3(MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP			
	Access, Storage anomaly				Interoperability	ONVIF Profile S&G&T CGI
IVS	Object Abandoned/Missing				Streaming Method	Unicast/Multicast

TDPTZ4MP4IRS

User/Host	20	
Storage	FTP; Micro SD card (256G); P2P	
Browser	IE; Chrome; Firefox; Safari (no version restriction)	
Management Software	SmartPSS DSS	
Mobile Phone	iOS/Android	
Control of the contro		

Certification

	CE: EN55032/EN55024/EN50130-4
Certifications	FCC: Part15 subpartB, ANSI C63.4-2014
	UL62368-1+CAN/CSA C22.2,No. 62368-1

Port

Audio Input	1(Line in; bare wire or built in Mic)
Audio Output	1

Power

Power Supply	DC12V/1.5A±15% PoE (802.3af)
Power Consumption	3W 8.5W (IR on)

Environment

Operating Temperature	-30°C to +60°C (-22°F to 140°F)
Operating Humidity	≤95%
Protection	IK08; IP66; TVS 6000V lightning proof; surge protection

Structure

Dimensions	Φ128.0 mm × 65.4 mm (5.04" × 2.57")
Net Weight	0.485 kg (1.06 lb)
Gross Weight	0.7 kg (1.54 lb)

Accessories

Optional:









PFA120

PFA140

PF	A151
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Calling/Mount(()1)	Wall/Mount	Ceiling/Mount(1/2)
Pole/Mount(()1)	Pole/Mount((2))	CorreeMolount

PFA150

Dimensions (mm[inch])



