

TDPTZ4MP32CT-AI

4MP 32x In-ceiling Network PTZ Camera



Functions

Starlight Technology

With advanced image processing technology and optical technology, TOUGHDOG's Starlight technology can provide clear colorful video in the environment of low illuminance. It widely applies to various environments of low illuminance.

Wide Dynamic Range

The camera produces vivid images, even in high-contrast lighting conditions, by using industry-leading wide dynamic range (WDR) technology. For scenes that quickly alternate between bright and low lighting, WDR adjusts to fully capture both the bright and dark areas of a scene, producing superior quality videos.

- 1/2.8" 4Megapixel STARVIS™ CMOS.
- 32x optical zoom.
- · Starlight technology.
- Max. 25/30 fps@4MP.
- · Auto-tracking.
- Perimeter protection.
- · Face detection.
- · SMD4.0.
- · IK10.











Protection (±25%, 6 kV)

Designed with $\pm 25\%$ input voltage tolerance, the camera is suitable for even the most unstable outdoor conditions. Its 6 kV lightning rating ensures protection against lightning for both the camera and its structure.

Perimeter Protection

Automatically filters out false alarms caused by animals, rustling leaves, bright lights, and more, and uses secondary recognition during target detection to improve alarm accuracy.

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.

SMD 4.0

TOUGHDOG Smart Motion Detection technology works with intelligent algorithms to classify targets that trigger motion detection alarms. It filters out objects that are not targets, such as small and large animals, to avoid triggering false alarms. With an AI NVR, Quick Pick technology becomes available, allowing you to easily search for and pick out human and vehicle targets from SMD event videos, prioritizing the highest matches.



Technical Specificati	on				Auto Tracking	Yes
Camera					SMD	Yes
Image Sensor	1/2.8" CMOS				Quick Pick	With Al NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events.
Pixel	4 MP				Video	that users are interested in from SWD events.
Max. Resolution	2560 (H) × 1440 (V)				Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG
ROM	4 GB				·	(Sub Stream1); Smart H.264+
RAM	1 GB				Streaming Capability	3 streams 4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 ×
Electronic Shutter Speed	1/1 s-1/30,000 s				Resolution	1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)
Scanning System	Progressive				Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p (1–25/30 fps) Sub stream 1: D1/VGA/CIF (1–25/30 fps)
Min. Illumination	Color: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6				video Frame Nate	Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Lens					Bit Rate Control	CBR/VBR
Focal Length	4.8 mm-154 mm				Video Bit Rate	H264: 96–14848 Kbps H265: 38–8960 Kbps
Max. Aperture	F1.6-F4.0				Day/Night	Auto (ICR)/Color/B/W
Field of View	H: 55.8°-2.3° V: 31.9°-1.3°				BLC	Yes
Field of View	V: 31.9 –1.3 D: 63.7°–2.7°				WDR	120 dB
Optical Zoom	32×				HLC	Yes
Focus Control	Auto; semi-auto; manual				White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Close Focus Distance	0.1 m-1.5 m				Gain Control	Auto; manual
Iris Control	Auto; manual				Noise Reduction	2D NR; 3D NR
DORI Distance	Detect Observe	Recognize	Identify		Motion Detection	Yes
DOM Distance	3,080 m 1216.6 m (10,104.99 ft) (3,991.47 ft)	616 m (2,021.00 ft)	308 m (1,010.50 ft)		Region of Interest (RoI)	Yes
PTZ					Image Stabilization	Electronic (EIS)
Pan/Tilt Range	Tilt: 0° to +90°, auto flip 180 Pan: 0° to 360° endless				Defog	Electronic
Manual Control Speed	Pan: 0.1°/s-350°/s; Tilt: 0.1°/s-250°/s				Digital Zoom	16×
Preset Speed	Pan: 500°/s; Tilt: 500°/s				Image Rotation	180°
Preset	300				Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same
Tour	8 (up to 32 presets per tour))			S/N Ratio	view ≥55 dB
Pattern	5	5			Audio	255 45
Scan	5				PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1;	
Power-off Memory	Yes			Audio Compression	G729; G723	
Idle Motion	Pattern; Preset; Scan; Tour				Network	
PTZ Protocol	DH-SD				Network Port	RJ-45 (10/100 Base-T)
Intelligence	Tripwire; intrusion; climbing abandoned/missing object;				Network Protocol	FTP; RTMP; IPv6; Bonjour; IPv4; DNS; RTCP; PPPoE; NTP; RTP; 802.1x; HTTPS; SNMP; TCP/IP; DDNS; UPnP; NFS; ICMP; UDP; IGMP; HTTP; SSL; DHCP; SMTP; Qos; RTSP; ARP
IVS (Perimeter Protection) adultion; people gathering; vet classification; linkage tracking		; vehicle/human a			Interoperability	CGI; SDK; ONVIF (Profile S&G&T); P2P
	Supports face detection, optimization, tracking, capturing			Streaming Method	Unicast/Multicast	
	pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions: Gender, age, glasses, expressions (angry, sad, hate, surprise, calm, happy and confused), mask, mustache; Supports face cutout: Face, one-inch				User/Host	20 (total bandwidth: 64 M)
Face Detection					Storage	Micro SD card (512 GB); FTP/SFTP; NAS

photo. Capturing strategies include real-time capturing, optimization, and quality first.



Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions
Management Software	DSS Pro; DMSS
Mobile Client	iOS; Android

Certification

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

Port

Audio Input	1 channel (LINE IN, bare wire)
Audio Output	1 channel (LINE OUT,bare wire)
Alarm Linkage	Capture; recoding; send email; preset; tour; pattern; alarm digital output; audio
Alarm Event	Motion/Tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Alarm I/O	2/1
Audio I/O	1/1

Power

Power Supply	24 VDC/2.5 A ± 25% (Included) PoE+ (802.3at)
Power Consumption	Basic: 13 W Max.: 16 W (PTZ)

Environment

Operating Temperature	-30 °C to +60 °C (-22 °F to +140 °F)
Operating Humidity	≤ 95%
Protection	IK10; 6000V lightning proof; surge protection; voltage transient protection

Structure

Product Dimensions	176.6 mm × Φ198.0 mm (6.95" × Φ7.80")
Net Weight	2.2 kg (4.85 lb)
Gross Weight	3.7 kg (8.16 lb)

Ordering Information			
Туре	Model	Description	
4MP PTZ Camera	TDPTZ4MP32CT-AI	4MP 32x Starlight Network PTZ Camera	
Accessories	DC 24 V/2.5 A	Power Adapter	

Accessories

Included:



DC24V/2.5A Power Adapter

Dimensions (mm[inch])





