

CTX-4MP-IP-PTZ-AD-25

4MP 25X STARLIGHT AI ACTIVE DETERRENT PTZ CAMERA



- 1/2.8" 4Megapixel STARVIS™ CMOS
- Powerful 25x optical zoom
- Starlight technology
- IR distance up to 150m
- Perimeter protection
- Face detection
- Metadata
- Full-colour illuminator; red and blue warning light
- IP66



System Overview

This PTZ network camera adopts advanced CNN deep learning algorithms to support face recognition with high accuracy. This camera possess wide monitor range, PFA algorithm that can always present a clear, focused image while zooming, and smart wiper technology.

Functions

Starlight Technology

For challenging low-light applications, Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing colour 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.

Perimeter Protection

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

Smart Capture

Supports human face, human body, motor vehicle and non-motor vehicle image capture. It also supports optimisation, taking snapshots and generating optimal snapshot reports.

Face Detection

6 attributes and 8 expressions: Gender, age, glasses, expressions (anger, sadness, disgust, fear, surprise, calm, happiness and confusion), mask, beard. Face cutout setting: Face, single inch photo. Three snapshot methods: Real-time snapshot, priority snapshot, and quality priority.

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 use of PFA technology substantially improves user experience and increases product value.

Sound and Light Alarm

The camera supports sound and light alarms. When the alarm is triggered, the camera links the sound alarm and red and blue light warning, to provide deterrence and effective intervention. It also supports customised voice import.

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Technical Specification

Camera				
Image Sensor	1/2.8" CMOS			
Pixel	4 MP			
Max. Resolution	2560 (H) × 1440 (V)			
Electronic Shutter Speed	1/1 s–1/30,000 s			
ROM	4 GB			
RAM	1 GB			
Min. Illumination	Colour: 0.005 lux@F1.6 B/W: 0.0005 lux@F1.6 0 lux (IR light on)			
Illumination Distance	150 m (492.13 ft) (IR) 50 m (164.04 ft) (white light) 50 m (164.04 ft) (red and blue light)			
Illuminator Number	2 (IR light) 2 (dual light fusion) 1 (red light) 1 (blue light)			
Lens				
Focal Length	4.8 mm–120 mm			
Max. Aperture	F1.6–F3.5			
Field of View	H: 55.8°–2.9°; V: 31.6°–1.6° ; D: 63.7°–3.3°			
Optical Zoom	25×			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.8 m–5.0 m (2.62 ft–16.40 ft)			
Iris Control	Auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	1,655 m (5429.79 ft)	653 m (2142.39 ft)	331 m (1085.96 ft)	165 m (541.34 ft)
PTZ				
Pan/Tilt Range	Pan: 0° to 360° endless Tilt: –20° to +90°, auto flip 180°			
Manual Control Speed	Pan: 0.1°–160°/s; Tilt: 0.1°–60°/s"			
Preset Speed	Pan: 240°/s; Tilt: 150°/s			
Preset	300			
Tour	8 (up to 32 presets per tour)			
Pattern	5			
Scan	5			
Power-off Memory	Yes			
Idle Motion	Preset; Tour; Pattern; Scanning			
Protocol	DH-SD Pelco-P/D (auto recognition)			
Intelligence				
Video Metadata	Motor vehicle, non-motor vehicle, face, human body detection; optimization; capturing pictures; uploading high-quality face snapshots			

IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking
Face Detection	Yes
SMD	Yes
Auto Tracking	Yes
Video	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264B; H.264H; MJPEG
Streaming Capability	3 streams
Resolution	4M (2560 × 1440); 3M (2048 × 1536); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Video Frame Rate	Main stream: 4M/3M/1080p/1.3M/720p (1–50/60 fps) Sub stream 1: D1/CIF (1–25/30 fps) Sub stream 2: 1080p/1.3M/720p (1–25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	Default resolution of the main stream: H264: 2816–8192 kbps H265: 1024–7936 kbps
Day/Night	Auto (ICR); Colour; B/W
BLC	Yes
WDR	Yes
HLC	Yes
White Balance	Auto; manual; tracking; indoor; outdoor; outdoor auto; sodium lamp; sodium lamp auto
Gain Control	Auto; manual
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Image Stabilization	Optical
Defog	Electric
Digital Zoom	16×
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view; supports multiple colors and mosaic blocks
S/N Ratio	≥55dB
Audio	
Audio Compression	G.711a; G.711Mu; G.726; G722.1; G.729; MPEG2-Layer2; G723; PCM
Network	
Network Port	RJ-45 (10/100 Base-T)
Network Protocol	HTTP; HTTPS; TCP/IP; IPv4; RTSP; UDP; SMTP; NTP; DHCP; DNS; DDNS; IPv6; 802.1x; SSL; Qos; FTP; UPnP; ICMP; SNMP; SNMPv1/v2c/v3(MIB-2); IGMP; ARP; RTCP; RTP; PPPoE; IP Filter; RTMP; Bonjour; TCP; SMB; NFS
User/Host	20 (total bandwidth: 64 MB)
Interoperability	ONVIF Profile S&G&T
Storage	FTP; Micro SD card (256 GB); NAS

Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Management Software	Smart PSS; DSS; DMSS; Easy4ip; IVSS; player; configtool; NVR; Smart Player
Mobile Client	IOS; Android; iPhone; iPad; Windows Phone
Certifications	
Certifications	CE: EN55032/EN55024/EN50130-4 FCC: Part15 subpartB, ANSI C63.4-2014
Port	
Audio Input	1 (LINE IN; bare wire)
Audio Output	1 (LINE OUT; bare wire)
Two-way Audio	Yes
Alarm Input	2-ch, digital input (0-5 VDC)
Alarm Output	1-ch
Alarm Linkage	Capture; preset; tour; pattern; recording; alarm digital input; send email
Alarm Event	Motion/tampering detection; audio detection; network disconnection detection; IP conflict detection; memory card state detection; memory space detection
Power	
Power Supply	24 VDC/2.5 A ± 25% (included) PoE+ (802.3at)
Power Consumption	Basic: 13 W Max.: 23 W (illuminator+red and blue warning light+speaker+PTZ working)
Environment	
Operating Temperature	-40 °C to +70 °C (-40 °F to +158 °F)
Operating Humidity	≤95%
Protection	IP66, TVS 6000V lightning proof; surge protection; voltage transient protection
Structure	
Casing	ADC12
Product Dimensions	325.3 mm × Φ202.0 mm (12.81" × Φ7.95") (H × D)
Net Weight	4.6 kg (10.14 lb)
Gross Weight	9.1 kg (20.06 lb)

Dimensions (mm[inch])

