



4MP Starlight AI PTZ Camera (25x Zoom)

CODE: CTX-4MP-IP-PTZ-25-V2



Starlight
Technology



4MP
Resolution



100m IR
Range



People and
Vehicle Detection



AI
Features



Camera

Image Sensor	1/2.8" CMOS
Image Resolution	4MP (2560 x 1440)
ROM	4GB
RAM	1GB
Scanning System	Progressive
Electronic Shutter Speed	1/1s to 1/30,000s
Minimum Illumination	0.005 lux @ F1.6 (Colour); 0.0005 lux @ F1.6 (Black / White); 0 lux (Illuminator On)
Illumination Distance	100m (328.08 ft.) (IR)
Illuminator On / Off Control	Zoom Prio; Manual; Smart IR; Off
Illuminator Number	4 (IR LED)



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Lens Information

Focal Length	5mm to 125mm			
Aperture	F1.6 to F3.6			
Field of View	Horizontal: 53°-3.4°; Vertical: 30.4°-1.9°; Diagonal: 59.3°-3.9°			
Optical Zoom	25x			
Focus Control	Auto; Semi-Auto; Manual			
Iris Control	Auto			
Close Focus Distance	1m to 9m (3.28 ft. to 29.53 ft.)			
DORI Distance	Detect	Observe	Recognise	Identify
	2161.4m (7091.21 ft.)	864.6m (2836.61 ft.)	432.3m (1418.3 ft.)	216.1m (708.99 ft.)



Intelligent Functions

IVS (Perimeter Protection)	Tripwire; Intrusion; Crossing Fence Detection; Loitering Detection; Abandoned / Missing Object; Fast Moving; Parking Detection; People Gathering; People & Vehicle Alarm Classification
Face Detection	Attributes - Gender - Age - Glasses / No Glasses - Expressions (Happy, Sad, Angry, Surprised, Calm, Confused etc.) - Mask / No Mask - Facial Hair / No Facial Hair Features - Optimisation - Tracking - Photo Capture - High-Resolution Face Snapshots - Attribute Extraction - Real-Time Capture
SVD (People & Vehicle Detection)	Supported
Quick Pick	Supported



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PTZ Functions

Pan / Tilt Range	Pan: 0° To 360° Endless Tilt: -15° To +90°, Auto Flip 180°
Manual Control Speed	Pan: 0.1° To 200°/s Tilt: 0.1° To 270°/s
Preset Speed	Pan: 240°/s Tilt: 200°/s
Preset	300
Tour	8 (up to 32 Presets per Tour)
Patterns	5
Scans	5
Power-Off Memory	Supported
Idle Motion	Pattern; Preset; Scan; Tour
PTZ Protocol	DH-SD; Pelco-P-D (Auto-Recognition)



Video

Video Compression	H.264H / H.264B / Smart H.265+ / Smart H.264+ / H.265 / H.264 / MJPEG (Only Supported by Sub-Stream)
Video Frame Rate	Main Stream: 4MP / 3MP / 1080P / 1.3MP / 720P @ 1 to 25 / 30 fps Sub Stream 1: D1 / CIF @ 1 to 25 / 30 fps Sub Stream 2: 1080P / 1.3MP / 720P @ 1 to 25 / 30 fps
Stream Capability	3 Streams
Resolution	4MP (2560 x 1440); 3MP (2048 x 1536); 3MP (2304 x 1296); 1080P / 2MP (1920 x 1080); 720P (1280 x 720); D1 (704 x 576 / 704 x 480); CIF (352 x 288 / 352 x 240);
Bit Rate Control	CBR / VBR
Video Bit Rate	H.264: 96 to 14,848 kbps; H.265: 38 kbps to 8960 kbps
Day / Night	Auto (ICR), Colour or Black / White
BLC	Supported



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Video (continued.)

HLC	Supported
WDR	Supported
White Balance	Auto, Natural, Street Lamp, Outdoor, Manual, Regional, Custom
Gain Control	Auto
Noise Reduction	2D NR, 3D NR
Motion Detection	Supported
Region of Interest (RoI)	Supported
Defog	Electronic
Digital Zoom	16x
Image Rotation	180°
Privacy Masking	Supported (24 Areas, up to 8 in One View)
S/N Ratio	≥55 dB



Audio

Audio Compression	PCM; G.711a; G.711Mu; G.726; MPEG2-Layer2; G722.1; G729; G723
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Network

Network Port	RJ45 (10 / 100 Base-T)
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
Interoperability	RTMP; CGI; SDK; ONVIF (Profile S&G&T); P2P
Streaming Method	Unicast / Multicast
User / Host	20 (Total Bandwidth: 64MB)
Storage	FTP; SFTP; Micro SD Card (Max. 512 G); NAS
Browser	IE9 and Later Versions; Chrome 41 & Later; Firefox 50 & Later; iOS 10 & Later
Management Software	λ Cortex VMS
Mobile Client	iOS & Android



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Certification

Certifications

- CE-EMC: EN 55032; EN 61000-3-3; EN 61000-3-2; EN 50130-4; EN 55035
- CE-LVD: EN 62368-1
- FCC: 47 CFR FCC Part 15, Subpart B, NSI C63.4
- UL: UL62368-1



Ports

Audio Input	1 Channel (Line In, Bare Wire)
Audio Output	1 Channel (Line Out, Bare Wire)
Alarm Linkage	Supports: - Capture - Record - Email Notification - Preset - Tour - Pattern - Alarm Digital Input
Alarm Event	Supports: - Motion/Tampering Detection - Audio Detection - Network Disconnection Detection - IP Conflict Detection - Memory Card State Detection - Memory Space Detection
Alarm In / Out	2 / 1
Audio In / Out	1 / 1



Parameters & Dimensions

Power Supply	- 12 VDC/3A±10% - PoE (802.3at)
Power Consumption	Standard: 9W Illuminator, Alarm & PTZ: 20W (Max.)
Storage Temperature	-40°C to +70°C (-40°F to +158°F)
Working Temperature	-40°C to +70°C (-40°F to +158°F)
Working Humidity	Less than 95% (RH)
Protection	IP66, TVS 6000V Lightning Proof; Surge Protection; Voltage Transient Protection
Product Dimensions	270.4mm x Φ160mm (10.65" x Φ6.30")



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Parameters & Dimensions (continued.)

Net Weight	2.4kg (5.29lb)
Gross Weight	3.9kg (8.6lb)