

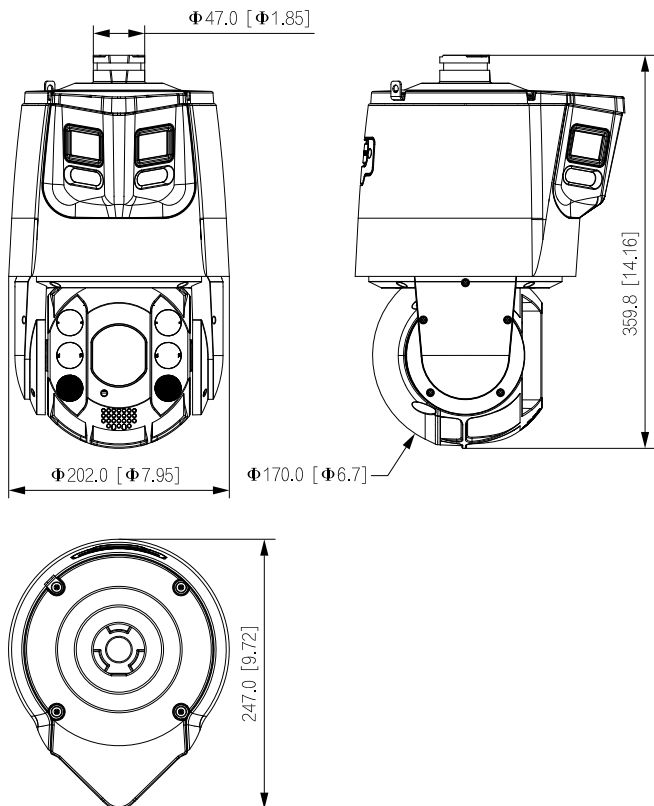
IPPTZ-ELS4L32X-AI

4MP 32X Smart Dual Light Network Panoramic PTZ Camera



- 1/2.8" 4Megapixel STARVIS™ CMOS.
- 32× optical zoom.
- Starlight technology.
- Max. 25/30 fps@2560 × 1440.
- IR distance up to 200 m.
- Auto-tracking.
- Perimeter protection.
- Face detection.
- IP66.
- Sound and light alarm.
- 180° Panoramic Splicing.

Dimensions (mm[inch])



Technical Specification

Camera

Image Sensor	Panorama: 1/2.8" CMOS Detail: 1/2.8" CMOS
Pixel	Panorama: 4 MP Detail: 4 MP
Max. Resolution	Panorama: 3840 (H) × 1080 (V) Detail: 2560 (H) × 1440 (V)
ROM	Panorama: 4 GB Detail: 4 GB
RAM	Panorama: 1 GB Detail: 1 GB
Electronic Shutter Speed	Panorama: 1/1 s–1/10,000s Detail: 1/1s–1/30,000s
Scanning System	Progressive
Min. Illumination	Panorama: Color: 0.001 lux@F1.0 B/W: 0.0001 lux@F1.0 Detail: Color: 0.005 lux@F1.6 (1/25 s, 30 IRE, gain 100) B/W: 0.0005 lux@F1.6 (1/25 s, 30 IRE, gain 100) 0 Lux (IR on)
Illumination Distance	Panorama: 30 m (98.43 ft) (White light) Detail: 200 m (656.17 ft) (IR)
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR; Off
Illuminator Number	Panorama: 4 (White light) Detail: 4 (IR), 2 (White light)

Lens

Focal Length	Panorama: 2.8 mm Detail: 4.8 mm–154 mm			
Max. Aperture	Panorama: F1.0 Detail: F1.6–4.0			
Field of View	Panorama: H: 180° ± 5°; V: 51° Detail: H: 55.8°–2.3°; V: 31.9°–1.3°; D: 63.7°–2.7°			
Optical Zoom	Panorama: NA Detail: 32×			
Focus Control	Panorama: NA Detail: Auto; semi-auto; manual			
Close Focus Distance	Panorama: 0.3 m (0.98 ft) Detail: 0.8 m–5 m (2.62 ft–16.40 ft)			
Iris Control	Panorama: Fixed Detail: Auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	Panorama: 38.6 m (126.64 ft) Detail: 3080 m (10104.99 ft)	Panorama: 15.3 m (50.20 ft) Detail: 1216.6 m (3991.47 ft)	Panorama: 7.7 m (25.26 ft) Detail: 616 m (2021.00 ft)	Panorama: 3.9 m (12.80 ft) Detail: 308 m (1010.50 ft)

PTZ

Pan/Tilt Range	Detail: H: 0°–360° endless V: –20°–+90°
Manual Control Speed	Detail: Pan: 0.1°/s–160°/s Tilt: 0.1°/s–120°/s
Preset Speed	Detail: Pan: 240°/s; Tilt: 200°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Power-off Memory	Yes
Idle Motion	Pattern;Preset;Scan;Tour
PTZ Protocol	DH-SD Pelco-P/D(Auto recognition)

Intelligence

IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification; linkage tracking
Face Detection	Supports face detection, optimization, tracking, capturing pictures, uploading high-quality face snapshots, and face enhancement; Supports attributes extraction. 6 attributes and 8 expressions; Supports face cutout: Face, one-inch photo. Capturing strategies include real-time capturing, optimization, and quality first
Auto Tracking	Yes

Active Deterrence

Light Warning	Supports white light warning; the flashing time can be configured as: 5 to 30 seconds, and the frequency can be configured as high/medium/low
Sound Warning	A total of 11 audio alarm contents, and supports importing custom audio. The sound can be configured at three levels: high/medium/low, and the duration time can be configured as 5 to 30 seconds. 110 dB.

Video

Video Compression	H.264H;H.264B;Smart H.265+;H.265;MJPEG(Sub Stream);Smart H.264+;H.264M
Streaming Capability	3 streams
Resolution	Panorama: 3840 × 1080; 960 × 268; D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240); Details: 2560 × 1440 (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)

Video Frame Rate	<p>Panorama: 50 Hz Main stream (3840 × 1080@25 fps), Sub stream 1 (960 × 268@25 fps), Sub stream 1 (704 × 576@25 fps), Sub stream 1 (640 × 480@25 fps), Sub stream 1 (352 × 288@25 fps), Sub stream 2 (1920 × 540@25 fps), Sub stream 2 (1280 × 960@25 fps), Sub stream 2 (1280 × 720@25 fps) 60 Hz Main stream (3840 × 1080@30 fps), Sub stream 1 (960 × 268@30 fps), Sub stream 1 (704 × 576@30 fps), Sub stream 1 (640 × 480@30 fps), Sub stream 1 (352 × 288@30 fps), Sub stream 2 (1920 × 540@30 fps), Sub stream 2 (1280 × 960@30 fps), Sub stream 2 (1280 × 720@30 fps) Details: 50 Hz Main stream (2560 × 1440@25 fps), Main stream (2048 × 1536@25 fps), Main stream (2304 × 1296@25 fps), Main stream (1920 × 1080@25 fps), Main stream (1280 × 960@25 fps), Main stream (1280 × 720@25 fps) Sub stream 1 (704 × 576@25 fps), Sub stream 1 (640 × 480@25 fps), Sub stream 1 (352 × 288@25 fps), Sub stream 2 (1280 × 720@25 fps) 60 Hz Main stream (2560 × 1440@30 fps), Main stream (2048 × 1536@30 fps), Main stream (2304 × 1296@30 fps), Main stream (1920 × 1080@30 fps), Main stream (1280 × 960@30 fps), Main stream (1280 × 720@30 fps) Sub stream 1 (704 × 480@30 fps), Sub stream 1 (640 × 480@30 fps), Sub stream 1 (352 × 240@30 fps)Sub stream 2 (1280 × 720@30 fps)</p>
Bit Rate Control	CBR/VBR
Video Bit Rate	<p>Panorama: H.264: 2,816 kbps-13,824 kbps H.265: 1,024 kbps-8,192 kbps Detail: H.264: 2,816 kbps-13,056 kbps H.265: 1,024 kbps-7,936 kbps</p>
Day/Night	<p>Paronama: Auto (ICR)/Color/B/W Detail: Auto (ICR)/Color/B/W</p>
BLC	Yes
WDR	<p>Paronama: Yes Detail: Yes</p>
HLC	Yes
White Balance	<p>Panorama: Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp Detail: Auto; indoor; outdoor; ATW; manual; sodium lamp; natural light; street lamp</p>
Gain Control	<p>Paronama: Auto/manual Detail: Auto/manual</p>
Noise Reduction	<p>Paronama: 2D/3D noise reduction Detail: 2D/3D noise reduction</p>
Motion Detection	Yes
Region of Interest (Rol)	Yes
Image Stabilization	Electronic Image Stabilization (EIS)
Defog	<p>Paronama: Electronic Defog Detail: Electronic Defog</p>
Digital Zoom	16×
Image Rotation	180°
S/N Ratio	<p>Paronama: ≥55 dB Detail: ≥55 dB</p>

Audio

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

Network Port	RJ-45 (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	CGI;ONVIF (Profile S&G&T)
User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD card (up to 512 G); NAS
Browser	IE 9 and later versions Chrome 41 and later versions Firefox 50 and later versions iOS 10 and later versions
Management Software	MDSS;DSS Pro
Mobile Client	iOS;Android

Certification

Certifications	CE: DHQA-ESH-P22100890/DHQA-ESH-P22100654B-A1
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Port

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

Power

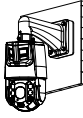
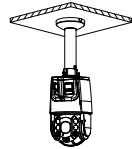
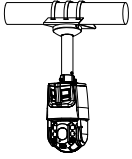
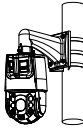
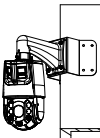
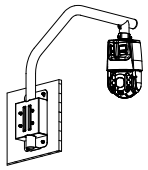
Power Supply	36 VDC/2.23 A ± 25%
Power Consumption	Basic power consumption: 20 W Max. power consumption: 35 W (IR + heater + intelligent functions + PTZ working)

Environment

Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)
Operating Humidity	≤95%
Protection	IP66

Structure

Casing Material	Plastic, aluminum alloy
Product Dimensions	247 mm × 202 mm × 359.8 mm (9.72" × 7.95" × 14.17") (L × W × H)
Net Weight	5.3 kg (11.68 lb)
Gross Weight	7.12 kg (15.70 lb)

Wall Mount	Ceiling Mount	Pole Mount(Horizontal)
		
Pole Mount(Vertical)	Corner Mount	Parapet Mount
		

Accessories

Included:



Power Adapter



Mount Adapter



Wall Mount Bracket

Optional:



CM-EL300C
Ceiling Mount Bracket



PM-EL150
Vertical Pole Mount
Bracket



PB-EL303S
Parapet Mount Bracket



CM-EL151
Corner Mount Bracket



PM-EL150 + CMEL300C
Horizontal Pole Mount
Bracket