

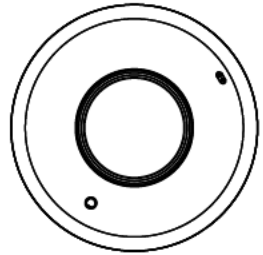
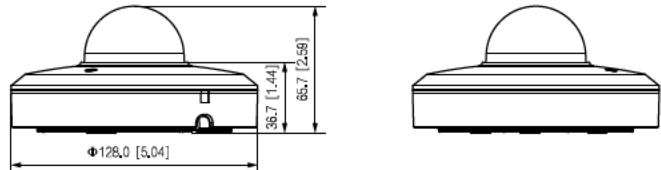
# 4MP 4x Starlight IR WizSense Network PTZ Camera

## IPPTZ-ELS4IR4X-AIA



- 1/2.8" 4Megapixel CMOS.
- 4x optical zoom.
- Starlight technology.
- Max. 25/30 fps@4MP.
- IR distance up to 20 m.
- Perimeter protection.
- Face detection.
- SMD 3.0.
- Built-in Mic.
- IP66; IK08.

**Dimensions (mm[inch])**



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

## Technical Specification

### Camera

Image Sensor	1/2.8" CMOS
Pixel	4 MP
Max. Resolution	2560 (H) × 1440 (V)
ROM	256 MB
RAM	512 MB
Electronic Shutter Speed	1 s–1/30,000 s
Scanning System	Progressive
Min. Illumination	0.005 lux@F1.8 (Color, 30 IRE); 0.0005 lux@F1.8 (B/W, 30 IRE); 0 lux (illuminator on)
Illumination Distance	20 m (65.62 ft) (IR)
Illuminator On/Off Control	Manual; SmartIR; Off
Illuminator Number	3 (IR light)

### Lens

Focal Length	2.8 mm–12 mm			
Max. Aperture	F1.8–F2.7			
Field of View	H: 96.9°–31.6°; V: 51.4°–17.8°; D: 116.2°–36.4°			
Optical Zoom	4x			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.2 m–0.5 m (0.66 ft–1.64 ft)			
Iris Control	Fixed iris			
DORI Distance	Detect	Observe	Recognize	Identify
	240 m (787.40 ft)	94.8 m (311.02 ft)	48 m (157.48 ft)	24 m (78.74 ft)
	*DORI (Detect, Observe, Recognize, Identify) is a standard system (EN-62676-4) for defining the ability of a person viewing the video to distinguish persons or objects within a covered area. The numbers in this table do not reflect intelligent function distances. For intelligent function distances, refer to installation and commissioning manual/project design tool.			

### PTZ

Pan/Tilt Range	Pan: 0° to 355°; Tilt: 5° to 90°
Manual Control Speed	Pan: 0.1°/s–70°/s Tilt: 0.1°/s–30°/s
Preset Speed	Pan: 0.1°/s–80°/s Tilt: 0.1°/s–40°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Power-off Memory	Yes
Idle Motion	Preset; Tour
PTZ Protocol	DH-SD

## Intelligence

IVS (Perimeter Protection)	Tripwire; intrusion; crossing fence detection; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; human alarm classification
Face Detection	Supports face detection, snapshot, and face enhancement; Supports face cutout: Face, one-inch photo; Capturing strategies include real-time capturing and quality first.
People Counting	Supports counting the number of people that cross the detection line, counting the number of people in an area and queue management. Also, only people counting that cross the detection line supports the report function.
SMD	Yes

## Video

Video Compression	H.264H; H.264B; Smart H.265+; H.264; H.265; MJPEG (Sub Stream); Smart H.264+
Streaming Capability	3 streams
Resolution	4M (2560 × 1440); 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	Main stream: 4M/3M/1080P/1.3M/720P@(1-25/30 fps) Sub stream 1: D1/VGA/CIF@(1-25/30 fps) Sub stream 2: 720P@(1-25/30 fps)
Bit Rate Control	CBR/VBR
Video Bit Rate	H264: 96 Kbps–14,848 Kbps H265: 38 Kbps–8,960 Kbps
Day/Night	ICR: Color; B/W; Auto; Electronic: Color; B/W; Auto
BLC	Yes
WDR	120 dB
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual; gain prio
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Image Stabilization	Electronic Image Stabilization (EIS)
Defog	Electronic
Digital Zoom	16x
Image Rotation	180°
S/N Ratio	≥55 dB
Audio	
Audio Compression	PCM; G.711A; G.711MU; G.726; MPEG2-Layer2; G.722.1
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	ONVIF (Profile S & Profile G & Profile T); CGI; SDK
User/Host	20 (total bandwidth: 64 M)
Storage	Micro SD card (512 GB); FTP/SFTP; NAS
Browser	IE 9 and later versions; Chrome 41 and later versions; Firefox 52 and later versions; Safari 10 and later versions
Management Software	DMSS; DSS Pro
Mobile Client	iOS; Android

### 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 Part15, Subpart B, NSI C63.4
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### Port

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

### Power

Power Supply	12 VDC, 2 A $\pm$ 10%; PoE (802.3af)
Power Consumption	Basic: 4 W; Max: 13 W (illuminator on)

### Environment

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

### Structure

Product Dimensions	65.7 mm x $\Phi$ 128.0 mm (2.59" x 5.04")
Net Weight	0.5 kg (1.10 lb)
Gross Weight	0.7 kg (1.54 lb)

## Accessories

### Optional:



CM-EL151  
Corner Mount  
Bracket



MA-EL107  
Mount Adapter



WM-EL305W  
Wall Mount Bracket



MA-EL120  
Junction Box



CM-EL151  
Ceiling Mount Bracket



PM-EL150  
Pole Mount Bracket