

KX-EAi4409PN

4MP 40x Starlight IR PTZ AI Network Camera

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



- 1/1.8" 4Megapixel STARVIS™ CMOS
- Powerful 40x optical zoom
- Starlight+ technology
- Perimeter protection
- Metadata
- Face Recognition
- Auto-tracking
- Smart wiper
- IP67



Camera				
Image Sensor	1/1.8" CMOS			
Pixel	4 MP			
Max. Resolution	2560 (H) x 1440 (V)			
ROM	8 GB			
RAM	2 GB			
Electronic Shutter Speed	1/1 s–1/30,000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.001 lux@F1.4 B/W: 0.0001 lux@F1.4 0 lux@F1.4 (illuminator on)			
Illumination Distance	500 m (1640.42 ft)			
Illuminator On/Off Control	Zoom Prio; Manual; Smart IR			
Illuminator Number	10 IR lights			
Wiper	Smart wiper			
Lens				
Focal Length	5.6 mm–223 mm			
Max. Aperture	F1.4–F4.5			
Field of View	H: 61.8°–2.2°; V: 36.3°–1.3°; D: 69.2°–2.4°			
Optical Zoom	40x			
Focus Control	Auto; semi-auto; manual			
Close Focus Distance	0.5 m–2 m (1.64 ft–6.56 ft)			
Iris Control	Auto; manual			
DORI Distance	Detect	Observe	Recognize	Identify
	3,034.5 m (9,955.71 ft)	1,204.2 m (3,950.79 ft)	606.9 m (1,991.14 ft)	303.4 m (995.41 ft)
PTZ				
Pan/Tilt Range	Pan: 0° to 360° Tilt: –30° to +90°, auto flip 180°			

Manual Control Speed	Pan: 0.1°/s–240°/s Tilt: 0.1°/s–100°/s
Preset Speed	Pan: 240°/s; Tilt: 120°/s
Preset	300
Tour	8 (up to 32 presets per tour)
Pattern	5
Scan	5
Speed Adjustment	Yes
Power-off Memory	Yes
Idle Motion	Preset; Tour; Pattern; Scanning
PTZ Protocol	DH-SD Pelco-P/D (auto recognition)
Smart Event	
Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal access, and storage anomaly
IVS	Object Abandoned/Missing
Intelligence	
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.
IVS (Perimeter Protection)	Tripwire; intrusion; climbing fences; loitering detection; abandoned/missing object; fast moving; parking detection; people gathering; vehicle/human alarm classification
Face Recognition	Yes
Auto Tracking	Yes
Video	
Video Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG (Sub Stream 1)
Streaming Capability	3 streams

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Resolution	4M (2560 × 1440); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)
Video Frame Rate	Main stream: 4M/1080p/1.3M/720p (1–25/30 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	H.265/H.264: 512 kbps–8192 kbps
Day/Night	Auto (ICR); Color; B/W
BLC	Yes
WDR	140 dB
HLC	Yes
White Balance	Auto; indoor; outdoor; tracking; manual; sodium lamp; natural light; street lamp
Gain Control	Auto; manual
Noise Reduction	2D NR; 3D NR
Motion Detection	Yes
Region of Interest (RoI)	Yes
Defog	Optical
Digital Zoom	16x
Image Rotation	0°; 180°
Privacy Masking	Up to 24 areas can be set, with up to 8 areas in the same view
S/N Ratio	≥55 dB
Audio	
Audio Compression	G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG2-Layer2; G723
Network	
Network Port	RJ-45 (10/100 Base-T)
Network Protocol	IPv4; IPv6; HTTP; HTTPS; 802.1x; QoS; FTP; SMTP; UPnP; SNMP v1/v2c/v3 (MIB-2); DNS; DDNS; NTP; RTSP; RTP; TCP; UDP; IGMP; ICMP; DHCP; PPPoE; ARP; RTCP; RTMP
Interoperability	ONVIF (Profile S&G&T); CGI
Streaming Method	Unicast; Multicast
User/Host	20 (total bandwidth: 64 M)
Storage	FTP; Micro SD card (512 GB)
Browser	IE 7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Management Software	KBiVMS, KBView Plus
Mobile Client	iOS; Android
Port	
Analog Output	1 BNC
RS-485	1 (baud rate range: 1200 bps–9600 bps)

Alarm I/O	7/2
Audio I/O	1/1
Power	
Power Supply	36 VDC, 2.23 A (±25%) Hi-PoE
Power Consumption	Basic: 30 W Max.: 48 W (illuminator + PTZ working)
Environment	
Operating Temperature	–40 °C to +70 °C (–40 °F to +158 °F)
Operating Humidity	≤95% (RH)
Protection	IP67; TVS 6000 V lightning protection; surge protection; voltage transient protection
Structure	
Casing	Metal
Product Dimensions	415.6 mm × Φ262 mm (16.36" × Φ10.31")
Net Weight	10 kg (22.05 lb)
Gross Weight	12 kg (26.46 lb)
Dimensions (mm[inch])	

