

# KX-EAi8409PN2

## 8MP 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" 8Megapixel 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	8MP			
Max. Resolution	3840 (H) x 2160 (V)			
ROM	8 GB			
RAM	2 GB			
Electronic Shutter Speed	1/1 s–1/30000 s			
Scanning System	Progressive			
Min. Illumination	Color: 0.005Lux@F1.4 B/W: 0.0005 Lux@F1.4 0 Lux@F1.4 (illuminator on)			
Illumination Distance	500 m (1640.42 ft)			
Illuminator On/Off Control	Zoom Prio; Manual; SmartIR			
Illuminator Number	10 IR lights			
Wiper	Smart wiper			
Lens				
Focal Length	5.6 mm–223 mm			
Max. Aperture	F1.4–F4.8			
Field of View	H: 63.9°–2.0°; V: 37.2°–1.2°; D: 71.2°–2.4°			
Optical Zoom	40x			
Focus Control	Auto; Semi-Auto; Manual			
Close Focus Distance	0.5 m–1 m (1.64 ft–3.28 ft)			
Iris Control	Auto; Manual			
DORI Distance	Detect	Observe	Recognize	Identify
	4400 m (14435.70 ft)	1740m (5708.66 ft)	880 m (2887.14 ft)	440 m (1443.57 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
Protocol	DH-SIP Pelco-P/D (auto recognition)
General Intelligence	
Event Trigger	Motion detection, video tampering, scene changing, network disconnection, IP address conflict, illegal access, and storage anomaly.
IVS	Object Abandoned; Object Missing
Artificial Intelligence	
Video Metadata	Support human body, human face, motor vehicle and non-motor vehicle image capture and attributes extraction.
Perimeter Protection	Tripwire and intrusion. Support alarm triggering by target types (human and vehicle). Support filtering false alarms caused by animals, rustling leaves, bright lights, etc.
Face Recognition	Yes
Auto Tracking	Yes
Video	
Compression	Smart H.265+; H.265; Smart H.264+; H.264; MJPEG (Sub Stream 1)
Streaming Capability	3 streams
Resolution	4K (3840 × 2160); 4M (2560 × 1440); 1080P (1920 × 1080); 1.3M (1280 × 960); 720P (1280 × 720); D1 (704 × 576); CIF (352 × 288)

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Frame Rate	Main stream: 4K/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	Variable; Constant
Bit Rate	H264: 512 Kbps–16384 Kbps H265: 256 Kbps–10240 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; Street Lamp
Gain Control	Auto; Manual
Noise Reduction	2D; 3D
Motion Detection	Yes
Region of Interest (RoI)	Yes
Image Stabilization	Electronic (EIS)
Defog	Optical
Digital Zoom	16x
Flip	0°; 180°
Privacy Masking	Up to 24 areas, and up to 8 areas in the same view
S/N Ratio	≥ 55 dB
<b>Audio</b>	
Compression	G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG2-Layer2; G723
<b>Network</b>	
Ethernet	1 RJ-45 Port (10/100Base-T)
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 MB)
Storage	FTP; Micro SD card (256 GB); P2P
Browser	IE7 and later versions Chrome 42 and earlier versions Firefox 52 and earlier versions Safari
Management Software	KBiVMS, KBView, KBView Lite
Mobile Phone	iOS; Android
<b>Port</b>	
Analog Output	1 BNC
RS-485	1 (baud rate range:1200 bps–9600 bps)

Audio Input	1 (LINE IN; bare wire)
Audio Output	1 (LINE OUT; bare wire)
Alarm I/O	7/2
<b>Power</b>	
Power Supply	DC 36V/2.23A±25% Hi-PoE
Power Consumption	30W 48W (IR light on)
<b>Environment</b>	
Operating Temperature	–40°C to +70°C (–40°F to +158°F)
Operating Humidity	≤ 95%RH
Protection	IP67; IK10; TVS 6000V lightning protection; surge protection; voltage transient protection
<b>Structure</b>	
Casing	Metal
Dimensions	415.6 mm × Φ262 mm (16.36" × Φ10.31")
Net Weight	8.5 kg (18.74 lb)
Gross Weight	13.5 kg (29.76 lb)
<b>Dimensions (mm[inch])</b>	

