

KX-EWAi8409STPN2

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, support Ryder technology



| 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 |
| Audio | |
| Compression | G.711a; G.711mu; G.726; AAC; G722.1; G.729; MPEG2-Layer2; G723 |
| Network | |
| 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 |
| Port | |
| 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 |
| Power | |
| Power Supply | DC 36V/2.23A±25% Hi-PoE |
| Power Consumption | 30W 48W (IR light on) |
| Lightning protection | 4.5kV |
| Environment | |
| 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 |
| Structure | |
| 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) |
| Dimensions (mm[inch]) | |

