

KX-CAi8004MN2-AB

8MP IR Vari-focal Dome 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.



- 8-MP 1/2.8" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 8MP (3840 × 2160) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, max. IR distance: 40 m.
- ROI, SMART H.264 +/H.265+, AI H.264/H.265, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- Intelligent detection: Intrusion, tripwire (support the classification and accurate detection of vehicle and human).
- Abnormality detection: Motion detection, privacy masking, scene changing, audio detection, no SD card, SD card full, SD card error, network disconnection, IP conflict, illegal access, and voltage detection.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; max. 256 G Micro SD card; built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 protection.
- SMD 4.0, AI SSA.



| Camera | |
|----------------------------|---|
| Image Sensor | 1/2.8" CMOS |
| Max. Resolution | 3840 (H) × 2160 (V) |
| ROM | 128 MB |
| RAM | 1 GB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s |
| Min. Illumination | 0.007 lux@F1.5 (Color, 30 IRE) 0.0007 lux@F1.5 (B/W, 30 IRE) 0 lux (Illuminator on) |
| S/N Ratio | >56 dB |
| Illumination Distance | 40 m (131.23 ft) |
| Illuminator On/Off Control | Auto/Manual |
| Illuminator Number | 3 (IR LED) |
| Pan/Tilt/Rotation Range | Pan: 0°–355°; Tilt: 0°–80°; Rotation: 0°–355° |
| Lens | |
| Lens Type | Motorized vari-focal |
| Lens Mount | φ14 |
| Focal Length | 2.7 mm–13.5 mm |
| Max. Aperture | F1.5 |
| Field of View | Horizontal: 109°–30° Vertical: 56° –17° Diagonal: 131° –35° |

| Iris Control | Fixed | | | | |
|----------------------------|--|---------------------|---------------------|--------------------|-------------------|
| Close Focus Distance | 0.8 m (2.62 ft) | | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
| | W | 88.3 m (289.70 ft) | 35.3 m (115.81 ft) | 17.7 m (58.07 ft) | 8.8 m (28.87 ft) |
| | T | 289.7 m (950.46 ft) | 115.7 m (379.60 ft) | 57.9 m (189.96 ft) | 29.0 m (95.14 ft) |
| | | | | | |
| Intelligence | | | | | |
| IVS (Perimeter Protection) | Tripwire, intrusion (support the classification and accurate detection of vehicle and human) | | | | |
| AI SSA | Yes | | | | |
| Quick Pick | With AI NVR, quickly pick up the human/vehicle targets that users are interested in from SMD events | | | | |
| Smart Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos | | | | |
| Video | | | | | |
| Video Compression | H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) | | | | |
| Smart Codec | Smart H.265+ Smart H.264+ | | | | |
| AI Coding | AI H.265 AI H.264 | | | | |
| Video Frame Rate | Main stream: 3840 × 2160 @ (1–25/30) fps Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps) Sub stream 2: 1920 × 1080 @ (1–25/30 fps) *The values above are the max. frame rates of each stream; for multiple streams, the values will be subjected to the total encoding capacity | | | | |

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| Stream Capability | 3 streams |
| Resolution | 8M (3840 × 2160); 6M (3072 × 2048); 5M (3072 × 1728/2592 × 1944); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536); 3M (2304 × 1296); 1080p (1920 × 1080); 1.3M(1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240); VGA (640 × 480) |
| Bit Rate Control | CBR/VBR |
| Video Bit Rate | H.264: 3 kbps–8192 kbps H.265: 3 kbps–8192 kbps |
| Day/Night | Auto (ICR)/Color/B/W |
| BLC | Yes |
| HLC | Yes |
| WDR | 120 dB |
| Scene Self-adaptation (SSA) | Yes |
| White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Gain Control | Auto |
| Noise Reduction | 3D NR |
| Motion Detection | OFF/ON (4 areas, rectangular) |
| Image Stabilization | Electronic Image Stabilization (EIS) |
| Region of Interest (RoI) | Yes (4 areas) |
| Defog | Yes |
| AFSA | Yes |
| Image Rotation | 0°/90°/180°/270° (support 90°/270° with 2688 × 1520 resolution and lower) |
| Mirror | Yes |
| Privacy Masking | 4 areas |
| Audio | |
| Built-in MIC | Yes |
| Audio Compression | G.711a; G.711Mu; PCM; G.726; G.723 |
| Alarm | |
| Alarm Event | No SD card; SD card full; SD card error; service life warning (only supported by KBVISION card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; external alarm; SMD; safety exception |
| Network | |
| Network Port | RJ-45 (10/100 Base-T) |

| | |
|-----------------------|---|
| SDK and API | Yes |
| Network Protocol | IPv4; IPv6; HTTP; TCP; UDP; ARP; RTP; RTSP; RTCP; RTMP; SMTP; FTP; SFTP; DHCP; DNS; DDNS; QoS; UPnP; NTP; Multicast; ICMP; IGMP; NFS; SAMBA; PPPoE; SNMP |
| Cyber Security | Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certification; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade |
| Interoperability | ONVIF (Profile S/Profile G/Profile T); CGI; P2P; Milestone; Genetec |
| User/Host | 20 (Total bandwidth: 64 M) |
| Storage | FTP; SFTP; Micro SD card (support max. 256 G); NAS |
| Browser | IE: IE11 Chrome Firefox |
| Management Software | KBiVMS, KBView Plus |
| Mobile Client | iOS; Android |
| Port | |
| Audio Input | 1 channel (RCA port) |
| Audio Output | 1 channel (RCA port) |
| Alarm Input | 1 channel in: 5 mA 3–5 VDC |
| Alarm Output | 1 channel out: 300 mA 12 VDC |
| Power | |
| Power Supply | 12 VDC/PoE (802.3af) |
| Power Consumption | Basic: 4 W (12 VDC); 4.9 W (PoE) Max. (WDR + IR intensity + Intelligence): 9.2 W (12 VDC); 10.5 W (PoE) |
| Environment | |
| Operating Temperature | –30 °C to +60 °C (–22 °F to 140 °F) /Less than 95% RH |
| Storage Temperature | –40 °C to +60 °C (–40 °F to 140 °F) |
| Protection | IP67; IK10 |
| Structure | |
| Casing | Metal |
| Product Dimensions | 94 mm × Φ122 mm (3.7" × Φ4.8") |
| Net Weight | 713 g (1.57 lb) |
| Gross Weight | 986 g (2.17lb) |