

KX-CAiF5005MN2-TiF-A

5MP Smart Dual Light Vari-focal Bullet 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.



- 5-MP 1/2.7" CMOS image sensor, low luminance, and high-definition image.
- Outputs max. 5 MP (2960 × 1668) @20 fps and supports 4 MP (2688 × 1520) @25/30 fps
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light and IR LED; the max. IR illumination distance is 50 m and warm light distance is 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 monitoring: Intrusion, tripwire (the two functions 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; supports max. 256 G Micro SD card; built-in dual Mic; built-in speaker; support two-way talk.
- 12 VDC/PoE power supply.
- IP67 protection.
- Sound and light alarm (red and blue lights).
- SMD 4.0.
- One-tap arming/disarming through alarm input



| Camera | |
|----------------------------|---|
| Image Sensor | 1/2.7" CMOS |
| Max. Resolution | 2960 (H) × 1668 (V) |
| ROM | 128 MB |
| RAM | 512 MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s |
| Min. Illumination | 0.003 lux@F1.0 (Color, 30 IRE) 0.0003 lux@F1.0 (B/W, 30 IRE) 0 lux (illuminator on) |
| S/N Ratio | > 56 dB |
| Illumination Distance | 50 m (164.04 ft) (IR) 40 m (131.23 ft) (warm light) |
| Illuminator On/Off Control | Auto/Manual |
| Illuminator Number | 2 (IR LED) 2 (warm light) |
| Angle Adjustment | Pan: 0°–360° Tilt: 0°–90° Rotation: 0°–360° |
| Lens | |
| Lens Type | Motorized vari-focal |
| Mount Type | φ16 |
| Focal Length | 2.7 mm–13.5 mm |

| Max. Aperture | F1.0 | | | | |
|----------------------------|---|------------------------|-----------------------|-----------------------|----------------------|
| Field of View | Horizontal: 113°–36° Vertical: 57°–20° Diagonal: 137°–40° | | | | |
| Iris Type | Fixed | | | | |
| Close Focus Distance | 1.5 m (4.92 ft) | | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
| | W | 65.2 m (223.91 ft) | 26.1 m (85.63 ft) | 13.0 m (42.65 ft) | 6.5 m (21.33 ft) |
| | T | 186.6 m (612.20 ft) | 74.6 m (244.75 ft) | 37.3 m (122.38 ft) | 18.7 m (61.35 ft) |
| Professional, intelligent | | | | | |
| IVS (Perimeter Protection) | Tripwire; intrusion (support the classification and accurate detection of vehicle and human) | | | | |
| SMD 4.0 | Less false alarm, longer detection distance | | | | |
| 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 | | | | |
| AI SSA | Adopt deep learning algorithms to adjust the parameters of the image to suit the conditions. | | | | |
| Video | | | | | |
| Video Compression | H.265; H.264; H.264H; H.264B; MJPEG (only supported by the sub stream) | | | | |

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| | |
|--------------------------|--|
| Smart Codec | Smart H.265+; Smart H.264+ |
| AI Coding | AI H.265; AI H.264 |
| Video Frame Rate | Main stream: 2960 × 1668@ (1–20 fps)/2688 × 1520 @ (1–30 fps) Sub stream: 704 × 576@ (1–25 fps)/704 × 480@ (1–30 fps) Third stream: 1920 × 1080@ (1–30 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. |
| Stream Capability | 3 streams |
| Resolution | 5M (2960 × 1668/2880 × 1620); 4M (2688 × 1520/2560 × 1440); 3M (2304 × 1296); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576/704 × 480); CIF (352 × 288/352 × 240) |
| 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 | Yes |
| White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Gain Control | Auto; manual |
| Noise Reduction | 3D NR |
| Motion Detection | OFF/ON (4 areas) |
| Region of Interest (RoI) | Yes (4 areas) |
| Image Stabilization | Electronic Image Stabilization (EIS) |
| Smart Illumination | Yes |
| Defog | 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, built-in dual Mic |
| Built-in speaker | Yes, built-in speaker |
| Audio Compression | PCM; G.711a; G.711Mu; G.726; G.723 |
| Alarm | |
| Alarm Event | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; scene |

| | |
|----------------------|---|
| | changing; audio detection; voltage detection; defocus detection; external alarm; SMD; security exception |
| Network | |
| Network | RJ-45 (10/100 Base-T) |
| SDK and API | Yes |
| 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 |
| 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 |
| Interoperability | ONVIF (Profile S; Profile G; Profile T); CGI |
| User/Host | 20 (Total bandwidth: 72 M) |
| Storage | FTP; SFTP; Micro SD card (support max. 256 G); NAS |
| Browser | IE: IE8/9/11 Chrome Firefox |
| Management Software | KBiVMS, KBView Plus |
| Mobile Phone | iOS; Android |
| Port | |
| Audio Input | 1 channel (RCA port) |
| Audio Output | 1 channel (RCA port) |
| Alarm Input | 1 channel in: 5mA 3V–5 VDC |
| Alarm Output | 1 channel out: 300mA 12 VDC |
| Power | |
| Power Supply | 12 VDC/PoE (802.3af) |
| Power Consumption | Basic: 3.3 W (12 VDC); 4.4 W (PoE) Max. (H.265+main stream/IR intensity+warm light on): 7.4 W (12 VDC); 8.7 W (PoE) |
| Environment | |
| Operating Conditions | –30 °C to +60 °C (–22 °F to +140 °F)/Less than 95% RH |
| Storage Conditions | –40 °C to +60 °C (–40 °F to +140 °F) |
| Protection Grade | IP67 |
| Structure | |
| Casing | Metal + plastic |
| Dimensions | 288.4 mm × 94.4 mm × 84.7 mm (11.35" × 3.72" × 3.33") (L × W × H) |
| Net Weight | 1.05 kg (2.31 lb) |
| Gross Weight | 1.35 kg (2.98 lb) |