

# KX-CAi4205MN2

## 4MP IR 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.



- 4-MP 1/3" CMOS image sensor, excellent low luminance performance and high definition of images.
- Outputs max. 4 MP (2688 × 1520) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED, max. IR distance: 60 m.
- ROI, SMART 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.
- Max. 256 G Micro SD card. built-in Mic.
- 12 VDC/PoE power supply facilitates installation.
- IP67, IK10 (optional) protection.
- SMD 4.0, AI SSA.



| Camera                     |   |
|----------------------------|---|
| Image Sensor               | 1/3" CMOS   |
| Max. Resolution            | 2688 (H) × 1520 (V)   |
| ROM                        | 128 MB  |
| RAM                        | 512 MB  |
| Scanning System            | Progressive   |
| Electronic Shutter Speed   | Auto/Manual 1/3 s–1/100,000 s   |
| Min. Illumination          | 0.005 lux@F1.5 (Color, 30 IRE)<br>0.0005 lux@F1.5 (B/W, 30 IRE)<br>0 lux (Illuminator on) |
| S/N Ratio                  | >56 dB  |
| Illumination Distance      | 60 m (196.85 ft)  |
| Illuminator On/Off Control | Auto/Manual   |
| Illuminator Number         | 4 (IR LED)  |
| Pan/Tilt/Rotation Range    | Pan: 0°–360°; Tilt: 0°–90°; Rotation: 0°–360°   |
| 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: 104°–29°<br>Vertical: 54° –16°<br>Diagonal: 125° –33°                         |

| Iris Control               | Fixed  |                        |                       |                      |                      |
|----------------------------|--|------------------------|-----------------------|----------------------|----------------------|
| Close Focus Distance       | 0.8 m (2.62 ft)  |                        |                       |                      |                      |
| DORI Distance              | Lens   | Detect                 | Observe               | Recognize            | Identify             |
|                            | W  | 64.0 m<br>(209.97 ft)  | 25.6 m<br>(83.99 ft)  | 12.8 m<br>(41.99 ft) | 6.4 m<br>(21.00 ft)  |
|                            | T  | 210.0 m<br>(688.98 ft) | 84.0 m<br>(275.60 ft) | 42.0m<br>(137.80 ft) | 21.0 m<br>(68.90 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+<br>Smart H.264+   |                        |                       |                      |                      |
| AI Coding                  | AI H.265<br>AI H.264   |                        |                       |                      |                      |
| Video Frame Rate           | Main stream: 2688 × 1520 @ (1–25/30) fps<br>Sub stream 1: 704 × 576 @ (1–25 fps)/704 × 480 @ (1–30 fps)<br>Sub stream 2: 1920 × 1080 @ (1–25/30) fps |                        |                       |                      |                      |

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|                             |  |
|-----------------------------|--|
|                             | *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                  | 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<br>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  |
| <b>Audio</b>                |  |
| Built-in MIC                | Yes  |
| Audio Compression           | G.711a; G.711Mu; PCM; G.726; G.723   |
| <b>Alarm</b>                |  |
| Alarm Event                 | No SD card; SD card full; SD card error; service life warning (only supported by Dahua card); network disconnection; IP conflict; illegal access; motion detection; video tampering; intrusion; tripwire; scene changing; audio detection; voltage detection; defocus detection; SMD; safety exception |
| <b>Network</b>              |  |
| 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<br>Chrome<br>Firefox   |
| Management Software          | KBiVMS, KBView Plus   |
| Mobile Client                | IOS; Android  |
| <b>Port</b>                  |   |
| Audio Input                  | N/A   |
| Audio Output                 | N/A   |
| Alarm Input                  | N/A   |
| Alarm Output                 | N/A   |
| <b>Power</b>                 |   |
| Power Supply                 | 12 VDC/PoE (802.3af)  |
| Power Consumption            | Basic: 2.8 W (12 VDC); 3.6 W (PoE)<br>Max. (WDR + IR intensity + Intelligence): 7.9 W (12 VDC); 9.2 W (PoE)   |
| <b>Environment</b>           |   |
| 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  |
| <b>Structure</b>             |   |
| Casing                       | Metal   |
| Product Dimensions           | 244.1 mm × 79.0 mm × 75.9 mm<br>(9.61" × 3.11" × 3.00") (L × W × H)   |
| Net Weight                   | 820 g (1.81 lb)   |
| Gross Weight                 | 1090 g (2.40 lb)  |
| <b>Dimensions (mm[inch])</b> |   |

