

## KX-DAi5003N-EAB

### 5MP IR Fixed-focal Bullet Network Camera

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- 5-MP 1/2.7" CMOS image sensor, low luminance, and high-definition image.
- Outputs max. 5 MP (2960×1668) @25/30fps.
- Built-in IR LED, and the max. illumination distance is 80 m.
- ROI, SVC, SMART H.264+/H.265+, AI H.264/H.265, encoding after filter, flexible coding, applicable to various bandwidth and storage environments.
- Rotation mode, WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- With deep learning algorithm, it supports: video metadata, smart sound detection, IVS, face detection, smart object detection, and people counting, etc.
- Alarm: 1 in, 1 out; audio: 1 in, 1 out; supports max. 512 GB Micro SD card, built-in MIC.
- 12 VDC/PoE power supply; ePoE.
- IP67 and IK10 protection.
- SMD 3.0.



| Camera                     |   |
|----------------------------|---|
| Image Sensor               | 1/2.7" CMOS   |
| Max. Resolution            | 2960 (H) × 1668 (V)   |
| ROM                        | 4 GB  |
| RAM                        | 1 GB  |
| Scanning System            | Progressive   |
| Electronic Shutter Speed   | Auto/Manual 1/3 s–1/100,000 s   |
| Min. Illumination          | 0.0009 Lux@F1.6 (Color,30IRE)<br>0.0005 Lux@F1.6 (B/W,30IRE)<br>0 lux (Illuminator on)  |
| S/N Ratio                  | >56 dB  |
| Illumination Distance      | Up to 80 m (262.47 ft) (IR)   |
| Illuminator On/Off Control | Auto; Manual  |
| Illuminator Number         | 4 (IR LED)  |
| Angle Adjustment           | Pan: 0°–360°<br>Tilt: 0°–90°<br>Rotation: 0°–360°   |
| Lens                       |   |
| Lens Type                  | Fixed-focal   |
| Lens Mount                 | M12   |
| Focal Length               | 2.8 mm; 3.6 mm; 6 mm; 8mm   |
| Max. Aperture              | F1.6  |
| Field of View              | 2.8 mm: H: 111°; V: 58°; D: 132°<br>3.6 mm: H: 92°; V: 45°; D: 110°<br>6 mm: H: 57°; V: 30°; D: 65°<br>8 mm: H: 43°; V: 24°; D: 48° |
| Iris Control               | Fixed   |

| Close Focus Distance       | 2.8 mm: 1.1 m (3.06 ft)   |                     |                    |                   |                   |
|----------------------------|---|---------------------|--------------------|-------------------|-------------------|
|                            | 3.6 mm: 1.7 m (5.58 ft)   |                     |                    |                   |                   |
|                            | 6 mm: 3.2 m (10.50 ft)  |                     |                    |                   |                   |
|                            | 8 mm: 4.6 m (15.09 ft)  |                     |                    |                   |                   |
| DORI Distance              |   | Lens Detect         | Observe            | Recognize         | Identify          |
|                            | 2.8 mm  | 63.6 m (208.66 ft)  | 25.4 m (83.33 ft)  | 12.7 m (41.67 ft) | 6.4 m (21.00 ft)  |
|                            | 3.6 mm  | 85.4 m (280.18 ft)  | 34.2 m (112.20 ft) | 17.1m (56.10 ft)  | 8.5 m (27.89 ft)  |
|                            | 6 mm  | 124.0 m (406.82 ft) | 49.6 m (162.73 ft) | 24.8 m (81.36 ft) | 12.4 m (40.68 ft) |
|                            | 8 mm  | 150.4 m (493.44 ft) | 60.2 m (197.51 ft) | 30.1 m (98.75 ft) | 15.0 m (49.21 ft) |
| Intelligence               |   |                     |                    |                   |                   |
| IVS (Perimeter Protection) | Intrusion, tripwire, fast moving (the three functions support the classification and accurate detection of vehicle and human); loitering detection, people gathering, and parking detection   |                     |                    |                   |                   |
| Smart Object Detection     | Smart abandoned object; smart missing object  |                     |                    |                   |                   |
| SMD 3.0                    | Less false alarm, longer detection distance   |                     |                    |                   |                   |
| AI SSA                     | Yes   |                     |                    |                   |                   |
| Face Detection             | Face detection; track; snapshot; snapshot optimization; optimal face snapshot upload; face enhancement; face exposure; face attributes extraction including 6 attributes and 8 expressions; face snapshot set as face, one-inch photo or custom; snapshot strategies (real-time snapshot, quality priority and optimization snapshot); face angle filter; optimization time setting |                     |                    |                   |                   |
| People Counting            | Tripwire people counting, generating, and exporting report (day/week/month/year); people counting in area and queue management, generating and exporting report (day/week/month); 4 rules can be set for tripwire, people counting in area and queue management.  |                     |                    |                   |                   |

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|                             |  |
|-----------------------------|--|
| Heat Map                    | Yes  |
| Video Metadata              | Motor vehicle, non-motor vehicle, face, human body detection; track; snapshot; snapshot optimization; optimal face snapshot upload.<br>Motor vehicle attributes: vehicle type, vehicle color, vehicle logo and other attributes : seatbelt, smoking, calling.<br>Non-motor vehicle attributes: type, color, number of people, top type and color, hat.<br>Human body attributes: gender, top/bottom type and color, bag, hat and umbrella.<br>Face attributes: gender, age, expressions, glasses, face mask and beard. |
| Smart Search                | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos  |
| Smart Sound Detection       | Yes  |
| <b>Video</b>                |  |
| 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: 2960 × 1668@(1–25/30 fps)<br>Sub stream: D1@(1–25/30 fps)<br>Third stream: 1080p@(1–25/30 fps)<br>Fourth stream: 720p@(1–25/30 fps)<br>*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           | 4 streams  |
| Resolution                  | 5M (2960 × 1668/2880 × 1620); 4M (2688 × 1520); 3.6M (2560 × 1440); 3M (2048 × 1536/2304 × 1296); 1080p (1920 × 1080); 1.3M (1280 × 960); 720p (1280 × 720); D1 (704 × 576/704 × 480); VGA (640 × 480); CIF (352 × 288/352 × 240)  |
| Bit Rate Control            | CBR/VBR  |
| Video Bit Rate              | H.264: 32 kbps–16384 kbps<br>H.265: 12 kbps–11776 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)  |
| Region of Interest (RoI)    | Yes (4 areas)  |
| Smart Illumination          | Yes  |

|                     |   |
|---------------------|---|
| Defog               | Yes   |
| Image Rotation      | 0°/90°/180°/270° (Support 90°/270° with 4M (2688 × 1520) resolution and lower)  |
| Mirror              | Yes   |
| Privacy Masking     | 8 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; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; fast moving; abandoned object; missing object; loitering detection; people gathering; parking detection; scene changing; audio detection; voltage detection; external alarm; face detection; video metadata; SMD; people counting in area; stay detection; people counting; people number error detection; queue people number alarm; queue time alarm; security exception |
| <b>Network</b>      |   |
| Network Port        | RJ-45 (10/100 Enhancement 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; P2P   |
| Interoperability    | ONVIF (Profile S/Profile G/Profile T); CGI  |
| User/Host           | 20 (Total bandwidth: 80 M)  |
| Storage             | FTP; SFTP; Micro SD card (support max. 512 GB); NAS   |
| Browser             | IE: IE 9 and later<br>Chrome: Chrome 102 and later<br>Firefox: Firefox 88 and later   |
| Management Software | KBiVMS, KBView Plus   |
| Mobile Client       | iOS; Android  |
| Cyber Security      | Configuration encryption; trusted execution; Digest; security logs; WSSE; account lockout; syslog; video encryption; 802.1x; IP/MAC filtering; HTTPS; trusted upgrade; trusted boot; firmware encryption; generation and importing of X.509 certification   |
| <b>Port</b>         |   |
| Audio Input         | 1 channel (RCA port)  |
| Audio Output        | 1 channel (RCA port)  |
| Alarm Input         | 1 channel in: wet contact, 5 mA 3V–5 VDC  |
| Alarm Output        | 1 channel out: wet contact, 300mA 12V DC  |
| <b>Power</b>        |   |
| Power Supply        | 12 VDC/PoE (802.3af)/ePoE   |
| Power Consumption   | Basic: 4.1 W (12 VDC); 5.2 W (PoE)<br>Max. (H.265+ WDR+ Intelligence on+IR on): 8.3 W (12 VDC); 9.8 W (PoE)   |

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| Environment           |   |
|-----------------------|---|
| Operating Temperature | -40 °C to +60 °C (-40 °F to +140 °F)                                |
| Operating Humidity    | ≤95%  |
| Storage Temperature   | -40 °C to +60 °C (-40 °F to +140 °F)                                |
| Storage Humidity      | 10%–95% (RH), non-condensing  |
| Protection            | IP67; IK10  |
| Structure             |   |
| Casing Material       | Metal   |
| Product Dimensions    | 244.1 mm × 79.0 mm × 75.9 mm (9.61" × 3.11" × 2.99")<br>(L × W × H) |
| Net Weight            | 0.82 kg (1.81 lb)   |
| Gross Weight          | 1.08 kg (2.38 lb)   |
| Dimensions (mm[inch]) |   |

