

KX-CAi4003N-PRO

4MP WizColor Fixed-focal Bullet Network Camera



- 4-MP 1/1.8" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2688 × 1520) @20 fps, and supports 2560×1440 (2560 × 1440) @25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in warm light, and the max. illumination distance is 50 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 monitoring: Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human)
- Abnormality detection: Motion detection, video tampering, audio detection, no SD card, SD card full, SD card error, network disconnection,
- IP conflict, illegal access, and voltage detection.
- Supports max. 256 G Micro SD card; built in Mic.
- 12 VDC/PoE power supply, easy for installation.
- IP67 protection.
- SMD Plus



Technical Specification

Camera

| | |
|----------------------------|-------------------------------------|
| Image Sensor | 1/1.8" CMOS |
| Max. Resolution | 2688 (H) × 1520 (V) |
| ROM | 128 MB |
| RAM | 256 MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s |
| Min. Illumination | 0.0005 lux@F1.0 |
| S/N Ratio | >56 dB |
| Illumination Distance | Up to 50 m (164.04 ft) (Warm light) |
| Illuminator On/Off Control | Auto;Manual |
| Illuminator Number | 4 (Warm light) |

Lens

| | | | | | |
|----------------------|---|---------------------|--------------------|-------------------|-------------------|
| Lens Type | Fixed-focal | | | | |
| Lens Mount | M16 | | | | |
| Focal Length | 3.6 mm; 6 mm | | | | |
| Max. Aperture | F1.0 | | | | |
| Field of View | 3.6 mm: H: 94°; V: 50°; D: 113° 6 mm: H: 58°; V: 31°; D: 67° | | | | |
| Iris Control | Fixed | | | | |
| Close Focus Distance | 3.6 mm: 2.6 m (8.53 ft) 6 mm: 5.4 m (17.72 ft) | | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
| | 3.6 mm | 70.3 m (230.64 ft) | 28.1 m (92.19 ft) | 14.1 m (46.26 ft) | 7.0 m (22.97 ft) |
| DORI Distance | 6 mm | 116.6 m (382.55 ft) | 46.6 m (152.89 ft) | 23.3 m (76.44 ft) | 11.7 m (38.39 ft) |

KX-CAi4003N-PRO

4MP WizColor Fixed-focal Bullet Network Camera

Intelligence

| | |
|----------------------------|---|
| IVS (Perimeter Protection) | Intrusion, tripwire (the two functions support the classification and accurate detection of vehicle and human) |
| SMD | SMD Plus |
| 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+ |
| Video Frame Rate | Main stream: 2688 × 1520@(1–20 fps)/2560 × 1440@(1–25/30 fps) sub stream: 704 × 576@(1–25 fps)/704 × 480@(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 | 2 streams |
| Resolution | 4M (2688 × 1520/2560 × 1440); 3M (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 | VBR;CBR |
| Video Bit Rate | H.264: 32 kbps–6144 kbps; H.265: 12 kbps–6144 kbps |
| Day/Night | Color/B/W |
| BLC | Yes |
| HLC | Yes |
| WDR | 120 dB |
| White Balance | Auto; natural; street lamp; outdoor; manual; regional custom |
| Gain Control | Auto/Manual |
| Noise Reduction | 3D NR |
| Motion Detection | OFF/ON (4 areas, rectangular) |
| Region of Interest (RoI) | Yes (4 areas) |
| Smart Illumination | Yes |
| Image Rotation | 0°/90°/180°/270° (Support 90°/270° with 2688 × 1520 resolution and lower) |
| Mirror | Yes |
| Privacy Masking | 4 areas |
| LDC | Yes |

Audio

| | |
|-------------------|-----------------------------|
| Built-in MIC | Yes, built-in Mic |
| Audio Compression | G.711a; G.711Mu; PCM; G.726 |

Alarm

| | |
|-------------|--|
| Alarm Event | No SD card; SD card full; SD card error; network disconnection; IP conflict; illegal access; motion detection; video tampering; tripwire; intrusion; audio detection; voltage detection; SMD; security 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; PPPoE; P2P; Bonjour; Auto Registration |
| Interoperability | ONVIF (Profile S & Profile G & Profile T); CGI |
| User/Host | 20 (Total bandwidth: 48 M) |
| Storage | FTP; SFTP; Micro SD card (support max. 256 GB); NAS |
| Browser | IE; Chrome; Firefox |
| Mobile Client | iOS; Android |
| Cyber Security | Video encryption; Firmware encryption; Configuration encryption; Digest; WSSE; Account lockout; Security logs; IP/MAC filtering; Generation and importing of X.509 certificate; syslog; HTTPS; 802.1x; Trusted boot; Trusted execution; Trusted upgrade; Session security; Security warning |

Power

| | |
|-------------------|---|
| Power Supply | 12 VDC; PoE |
| Power Consumption | Basic: 2.0 W (12 VDC); 2.5 W (PoE); Max.: 5.7 W (12 VDC); 6.8 W (PoE) (H.265+ intelligence on + WDR + illuminator intensity) |

Environment

| | |
|-----------------------|--------------------------------------|
| Operating Temperature | –40 °C to +60 °C (–40 °F to +140 °F) |
| Operating Humidity | ≤95% (RH), non-condensing |
| Storage Temperature | –40 °C to +60 °C (–40 °F to +140 °F) |
| Storage Humidity | ≤95% (RH), non-condensing |
| Protection | IP67 |

KX-CAi4003N-PRO

4MP WizColor Fixed-focal Bullet Network Camera

Structure

| | |
|--------------------|--|
| Casing Material | Metal + plastic |
| Product Dimensions | 201.0 mm × 103.8 mm × 97.8 mm (7.91" × 4.09" × 3.85") (L × W × H) |
| Net Weight | 0.68 kg (1.50 lb) |
| Gross Weight | 1.27 kg (2.80 lb) |

Dimensions (mm[inch])

