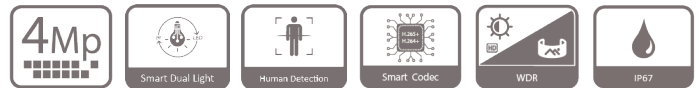


KX-CAi4003N-PRO

4MP Smart Dual Light Fixed-focal Eyeball Network Camera



- 4-MP 1/2.9" CMOS image sensor, low luminance, and high definition image.
- Outputs max. 4 MP (2560 × 1440)@25/30 fps.
- H.265 codec, high compression rate, ultra-low bit rate.
- Built-in IR LED and warm light, the max. IR illumination distance is 30 m and warm light distance is 30 m.
- WDR, 3D NR, HLC, BLC, digital watermarking, applicable to various monitoring scenes.
- ROI, SMART H.264 +/H.265+, flexible coding, applicable to various bandwidth and storage environments.
- Abnormality detection: Motion detection, video tampering, audio detection, network disconnection, IP conflict and illegal access.
- Built in Mic.
- 12 VDC/PoE power supply,easy for installation.
- IP67 protection.
- Supports human detection.



Technical Specification

Camera

| | |
|----------------------------|---|
| Image Sensor | 1/2.9" CMOS |
| Max. Resolution | 2560 (H) × 1440 (V) |
| ROM | 128 MB |
| RAM | 128 MB |
| Scanning System | Progressive |
| Electronic Shutter Speed | Auto/Manual 1/3 s–1/100,000 s |
| Min. Illumination | 0.006 lux@F1.6 (Color,30 IRE) 0.0006 lux@F1.6 (B/W,30 IRE) 0 lux (Illuminator on) |
| S/N Ratio | >56 dB |
| Illumination Distance | Up to 30 m (98.43 ft) (IR LED) Up to 30 m (98.43 ft) (Warm light) |
| Illuminator On/Off Control | Auto;Manual |
| Illuminator Number | 1 (IR LED); 1 (Warm light) |
| Angle Adjustment | Pan: 0°–360° Tilt: 0°–78° Rotation: 0°–360° |

Lens

| | | | | | |
|----------------------|---|--------------------|--------------------|-------------------|------------------|
| Lens Type | Fixed-focal | | | | |
| Lens Mount | M12 | | | | |
| Focal Length | 2.8 mm;3.6 mm | | | | |
| Max. Aperture | F1.6 | | | | |
| Field of View | 2.8 mm: H: 94°; V: 52°; D: 111° 3.6 mm: H: 78°; V: 41°; D: 94° | | | | |
| Iris Control | Fixed | | | | |
| Close Focus Distance | 2.8 mm: 1.1 m (3.61 ft) 3.6 mm: 1.7 m (5.58 ft) | | | | |
| DORI Distance | Lens | Detect | Observe | Recognize | Identify |
| | 2.8 mm | 64.0 m (209.97 ft) | 25.6 m (83.98 ft) | 12.8 m (41.99 ft) | 6.4 m (21.00 ft) |
| | 3.6 mm | 85.4 m (280.18 ft) | 34.2 m (112.20 ft) | 17.1 m (56.10 ft) | 8.5 m (27.89 ft) |

Intelligence

| | |
|-----------------|---|
| Human Detection | Support the classification and accurate detection of human |
| Smart Search | Work together with Smart NVR to perform refine intelligent search, event extraction and merging to event videos |

KX-CAi4003N-PRO

4MP Smart Dual Light Fixed-focal Eyeball Network Camera

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: 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 (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 | CBR/VBR |
| Video Bit Rate | H.264: 32 kbps–4096 kbps H.265: 12 kbps–4096 kbps |
| Day/Night | Auto(ICR)/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°/180° |
| Mirror | Yes |
| Privacy Masking | 4 areas |

Audio

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

Alarm

| | |
|-------------|---|
| Alarm Event | Network disconnection; IP conflict; illegal access; motion detection; video tampering; audio detection; SMD (human); 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; DHCP; DNS; DDNS; NTP; Multicast; ICMP; IGMP; P2P |
| Interoperability | ONVIF (Profile S; Profile T); CGI |
| User/Host | 6 (Total bandwidth: 24 M) |
| Storage | FTP |
| Browser | IE; Chrome; Firefox |
| Mobile Client | iOS;Android |
| Cyber Security | Configuration encryption;trusted execution;Digest;security logs;HTTPS;trusted upgrade;WSSE;trusted boot;account lockout;generation and importing of X.509 certification;video encryption |

Power

| | |
|-------------------|--|
| Power Supply | 12 VDC/PoE (802.3af) |
| Power Consumption | Basic: 2 W (12 VDC); 2.9 W (PoE) Max. (H.265 + intelligence on+ WDR + illuminator intensity): 4.6 W (12 VDC); 5.7 W (PoE) |

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 | ≤95% |
| Protection | IP67 |

Structure

| | |
|--------------------|---|
| Casing Material | Inner core: Metal+plastic Cover: Plastic |
| Product Dimensions | 100.9 mm × Φ109.9 mm (3.97" × Φ4.33") |
| Net Weight | 0.33 kg (0.73 lb) |
| Gross Weight | 0.45 kg (0.99 lb) |

Dimensions (mm[inch])

