

# KX-F9008ITN-AIO-L

## 9MP Radar Video Camera

Design and specifications are subject to change without notice. Pictures in the document are for reference only, and the actual product shall prevail.



- GS-CMOS image sensor.
- 4096 × 2336@50 fps.
- Video compression standards: H.265, H.264M, H.264H and MJPEG.
- Works in poor lighting and does not smear.
- High-speed capture.
- A camera, illuminator, radar and more combined in one.
- IP66.
- 4G mobile network module.
- Under recommended installation and lighting conditions:  
Capture rate >99%  
LPR accuracy >98%.

### Technical Specification

#### Camera

|                          |   |
|--------------------------|---|
| Image Sensor             | 1.1" GS-CMOS  |
| Shutter Mode             | Single shutter; Double shutters; Three shutters   |
| Electronic Shutter Speed | Auto/Manual 1/50 s–1/100,000 s  |
| Noise Reduction          | 3D NR   |
| S/N                      | 48 dB   |
| WDR                      | 120 dB  |
| Minimum intensity        | 0.001 lux   |
| Day/Night                | Supports ICR auto switch: IR cut-off filter (IRCF) with the polarizing filter is used during the daytime, and switches to the IR transmitting filter at night |

#### Illuminator

|                       |  |
|-----------------------|--|
| Illuminator Number    | 16   |
| Illumination Distance | 23 m–50 m (75.46 ft–164.04 ft) (adjustable brightness) |
| Lane Coverage         | Center mount: 4 lanes<br>Side mount: 3 lanes           |

#### Radar

|                            |                     |
|----------------------------|---------------------|
| Central Frequency          | 24.05 GHz–24.25 GHz |
| Speed Measurement Accuracy | ±2 km/h             |
| Speed Measurement Range    | 5 km/h–300 km/h     |
| Target Detection           | Up to 64            |

#### Lens

|               |                      |
|---------------|----------------------|
| Lens Type     | Motorized vari-focal |
| Focal Length  | 16 mm–40 mm          |
| Max. Aperture | F1.5                 |

|               |   |
|---------------|---|
| Aperture Type | P iris  |
| Field of View | Horizontal: : 22.3°–53.0°<br>Vertical: 13.8°–32.3°<br>Diagonal: 26.0°–61.9° |

#### Function

|                                       |   |
|---------------------------------------|---|
| Trigger Mode                          | Video trigger/Radar trigger   |
| OSD Overlay                           | Time, location, lane (number/direction), plate (number/color), and more.  |
| Alarm Event                           | Storage full; storage error; external alarm; no storage card; license plate blocklist; illegal access; network disconnection; IP conflict |
| Automatic Network Replenishment (ANR) | Platform, FTP (TF card is required)   |
| 4G                                    | Yes   |
| Auto Registration                     | Yes   |

#### Intelligence

|   |   |
|---|---|
| Target Detection  | Motor vehicle; motorcycle   |
| Face Detection  | Detects the driver and front-seat passenger of motor vehicles, and motorcycle drivers; extracts face images   |
| ANPR  | Adopts developed algorithms to recognize license plate numbers and letters  |
| Vehicle Type Recognition  | Vehicle head: SUV, Large bus, sedan, light truck, pickup, heavy truck, medium truck, van, medium bus, MPV<br>Vehicle tail: SUV, large bus, sedan, light truck, pickup, heavy truck, medium truck, van |
| Vehicle Color Recognition   | White, pink, black, red, yellow, gray, blue, green, dark orange, purple, brown, and silver gray   |
| Accuracy (under recommended installation and lighting conditions) | Capture rate >99%;<br>LPR accuracy >98%   |

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|                                      |   |
|--------------------------------------|---|
| Vehicle logo                         | Vehicle head mode: Acura, Alfa Romeo, Ashokleyland, Aston Martin, Audi, Baic, Bentley, Benz, BMW, Buick, BYD, Cadillac, Chery, Chevrolet, Chrysler, Citroen, Dacia, Daihatsu, Datsun, Dodge, DS, Ferrari, Fiat, Force, Ford, Foton, Geely, GMC, Greatwall, Hino, Honda, Hyundai, Infiniti, Isuzu, Iveco, Jac, Jaguar, Jeep, Kia, Kinglong, Land, Lexus, Lifan, Lincoln, Mahindra, MAN, Maserati, Mazda, Mercury, MG, Mini, Mitsubishi, Nissan, Opel, Peugeot, Porsche, Renault, Rolls Royce, Saab, Scania, Seat, Skoda, Smart, Subaru, Suzuki, Tata, Tesla, Toyota, UD, Volkswagen, Volvo |
| Motor Vehicle Violation Snapshot     | ANPR mode: Wrong-way driving, overspeed, driving slow, crossing the solid white line, crossing the solid yellow line, illegal lane change, not wearing seatbelt, calling while driving, smoking while driving<br>E-Police mode: Running a red light, overspeed, wrong-way driving, crossing the solid white line, crossing the solid yellow line, disobeying the direction arrow, illegal left turn, illegal right turn, illegal U-turn (not supported by side-mounted cameras), and crossing the stop line   |
| Motorcycle vehicle Violation Capture | Captures traffic violations including carrying passenger, not wearing helmet, and wrong-way driving   |
| Traffic Flow Detection               | Generates statistics on vehicle flow, queue length, average speed, lane occupancy, and more   |
| Traffic Event                        | Detects parking violations of motor vehicles, wrong-way driving, and traffic congestion   |
| <b>Video</b>                         |   |
| Video Compression                    | H.265; H.264M; H.264H; MJPEG  |
| Video Resolution                     | 4096 (H) × 2336 (V)   |
| Video Frame Rate                     | 50Hz: Maximum 50 fps; default main stream (4096 × 2336@12.5fps), sub stream (1600 × 1200@12.5 fps)<br>30Hz: Maximum 30 fps; default main stream (4096 × 2336@15 fps), sub stream (1600 × 1200@15 fps)   |
| Video Bit Rate                       | H.264: 32 kbps–32768 kbps<br>H.265: 32 kbps–32768 kbps<br>MJPEG: 512 kbps–32768 kbps  |
| Bit Rate Control                     | CBR; VBR  |
| White Balance                        | Auto/night/custom color temperature   |
| Edge Enhancement                     | Yes   |
| HLC                                  | Yes   |
| BLC                                  | Yes   |
| Bad Pixel Correction                 | Yes   |
| Gain Scope                           | 0–100   |
| <b>Image</b>                         |   |
| Composite Image                      | Supports combining up to 4 images into a composite image  |
| Image Resolution                     | 4096 (H) × 2336 (V) (OSD black strip excluded)  |
| Image Encoding Format                | JPEG  |
| Image Tampering Prevention           | Watermark and verification are available for videos and images  |

### Network

|                      |   |
|----------------------|---|
| Network Port         | 1 × RJ-45 Ethernet port, 10/100/1000 M network transmission   |
| SDK and API          | Yes   |
| Security             | Authorized username and password, MAC address binding, HTTPS encryption, and network access control   |
| Protocol             | IPv4; IPv6; HTTP; TCP; IP; UDP; NTP; DHCP   |
| Interoperability     | ONVIF (Profile S/Profile G/Profile T)   |
| Browser              | IE: IE 9–IE 11<br>Chrome: Chrome 41 and earlier<br>Firefox: Firefox 49 and earlier<br>Win10 needs to open the browser with administrator rights |
| Positioning          | GPS   |
| Time Synchronization | NTP; GPS  |

### Port

|                       |   |
|-----------------------|---|
| Frequency Source Sync | 1, supports synchronizing the camera with the mains electricity   |
| Peripheral Light      | 5, optocoupler signal output (can be configured as flashing light or LED strobe sync output port, frequency adjustable) |
| RS-485                | 1, connects to devices such as signal detector, strobe, continuous light, and all-in-one illuminator                    |
| Alarm Output          | 1 (can be configured as an alarm output port)   |
| Alarm In              | 1   |

### General

|                       |  |
|-----------------------|--|
| Power Supply          | 100–240 VAC, 50 Hz/60 Hz   |
| Power Consumption     | ≤55 W  |
| Operating Temperature | –40 °C to +65 °C (–40 °F to +149 °F)                                 |
| Storage Temperature   | –40 °C to +70 °C (–40 °F to +154 °F)                                 |
| Operating Humidity    | 10%–90% (RH)   |
| Storage Humidity      | 10%–90% (RH)   |
| Product Dimensions    | 435.4 mm × 416.0 mm × 173.8 mm (17.14" × 16.38" × 6.84") (L × W × H) |
| Net Weight            | 9.3 kg (20.50 lb)  |
| Gross Weight          | 14.3 kg (31.53 lb)   |
| Installation          | Center mount; Side mount   |

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### Dimensions (mm[inch])

