

# KX-FDA9098ZITN2

## 9MP All-in-One Enforcement 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.
- Integrated design, IP66 and IK10 rated.
- Under recommended installation and lighting conditions:
  - Capture rate > 99%
  - LPR accuracy > 98%
- Support Ryder technology, lightning protection 4500v

### 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 Ratio	48 dB
WDR	120 dB
Min. Illumination	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 common IR cut-off filter at night

#### Illuminator

Illuminator Number	6
Illumination Distance	23 m-30 m (75.46 ft–98.43 ft) (brightness adjustable)
Lane Coverage	Center mount: 4 lanes Side mount: 3 lanes

#### Lens

Lens Type	Motorized Vari-focal
Focal Length	16 mm–40mm
Max. Aperture	F1.5
Iris Type	P-Iris
Field of View	Horizontal: : 22.3°–53.0° Vertical: 13.8°–32.3° Diagonal: 26.0°–61.9°

#### Function

Trigger Mode	Video trigger/Radar trigger
OSD Overlay	Time; address; lane No.; plate; plate 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 and FTP (TF card is required)
Auto Registration	Yes

#### Intelligence

Target Detection	Motor vehicle; motorcycle
Speed Detection Range	0 km/h–300 km/h
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 Vehicle tail: SUV, large bus, sedan, light truck, pickup, heavy truck, medium truck, van
Accuracy (under recommended installation and lighting conditions)	Capture rate > 99%; LPR accuracy > 98%
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, dark orange, purple, brown, and silver gray
Vehicle Brand/Logo Recognition	Vehicle head mode: Acura, Alfaromeo, Ashokleyland, Astonmartin, Audi, Baic, Bently, 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, Rollsroyce, Saab, Scania, Seat, Skoda, Smart, Subaru, Suzuki, Tata, Tesla, Toyota, UD, Volkswagen, Volvo

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Motor Vehicle Violation Capture	ANPR mode: Wrong-way driving, speeding, driving slow, crossing the solid white line, crossing the solid yellow line illegal lane change, unfasten seat belt, calling while driving, smoking while driving E-Police mode: Running a red light, 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 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	Motor vehicle illegal stopping on the roadway; traffic congestion

### Video

Video Compression	H.264H; H.265; MJPEG; H.264M
Video Resolution	4096 (H) × 2336 (V)
Video Frame Rate	50 Hz: Maximum 50 fps; default main stream (4096 × 2336@25 fps), sub stream (1600 × 1200@25 fps) 60 Hz: Maximum 30 fps; default main stream (4096 × 2336@15 fps), sub stream (1600 × 1200@15 fps)
Video Bit Rate	H.264: 32 kbps–32767 kbps H.265: 32 kbps–32767 kbps MJPEG: 512 kbps–32767 kbps
Bit Rate Control	CBR/VBR
White Balance	Auto; Night; Customized Color Temperature
Edge Enhancement	Yes
HLC	Yes
BLC	Yes
Bad Pixel Correction	Yes
Gain Range	0-100

### Image

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	Verifies watermarks in videos and images

### Network

Network Port	2 × RJ-45 Ethernet ports, 10/100/1000 M network transmission
SDK and API	Yes

Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
Network Protocol	IPv4/IPv6; HTTP; TCP/IP; UDP; NTP; DHCP
Interoperability	ONVIF (Profile S/Profile G/Profile T)
Browser	Microsoft Edge IE: IE9–IE11 Chrome: Chrome 41 and earlier Firefox: Firefox 49 and earlier For Win 10 users, run the browser as administrator
Positioning	GPS
Network Status Monitoring	NTP; GPS

### Port

Storage	1, TF card (maximum 256 GB@Class10)
Iris Control	1, connects to DC auto iris or P-IRIS
Focus Control	1, connects to motorized vari-focal lens
Frequency Source Sync	1, supports synchronizing the camera with the mains electricity
Peripheral Light	7, optocoupler signal output (can be configured as flash light or LED strobe sync output interface, frequency adjustable)
USB	2 USB 3.0 Ports
RS-485	2, connects to devices such as signal detector, radar, and more
RS-232	4 (3 for radar connection, and 1 for serial port debugging)
I/O	4, same functions as ALARM IN port
Audio Input	1 channel (3.5mm JACK port)
Audio Output	1 channel (3.5mm JACK port)
Alarm Input	4, same functions as I/O port
Alarm Output	2 (AO1 is for relay output and AO2 for optocoupler output)
Power Output	12 VDC ± 10% voltage output, ≤1.5 A current output

### General

Power Supply	100–240 VAC (50 Hz/60 Hz)
Power Consumption	≤20 W
Operating Temperature	–40 °C to +65 °C (–40 °F to +149 °F)
Storage Temperature	–40 °C to +70 °C (–40 °F to +158 °F)
Operating Humidity	10%–90% (RH)

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Storage Humidity	0%–90%(RH)
Protection	IP66, IK10
Product Dimensions	554.0 mm × 204.2 mm × 209.6 mm (21.81" × 8.04" × 8.25") (L × W × H)
Net Weight	4.6 kg (10.14 lb)
Gross Weight	6.6 kg (14.55 lb)
Installation	Center mount; side mount

### Dimensions (mm [inch])

