

KX-F9008ITN2

9MP All-in-one AI 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 × 2824@50 fps.
- Video compression standards: H.265, H.264M, H.264H and MJPEG.
- Integrated design, IP66 rated.

Camera	
Image Sensor	1/1" GS-CMOS
Shutter Mode	Single shutter; Double shutter; Three shutters
Electronic Shutter Speed	50 Hz: 1/50 s–1/100,000 s (auto; manual) 60 Hz: 1/60 s–1/100,000 s (auto; manual)
Noise Reduction	3D NR; 2D NR
S/N	48 dB
WDR	90 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 common IR cut-off filter at night
Illuminator	
Illuminator Number	3
Illumination Distance	23 m–30 m (75.46 ft–98.43 ft) (adjustable brightness)
Covered lane	3 lanes
Lens	
Lens Type	Motorized vari-focal
Focal Length	16 mm–40 mm
Max. Aperture	F1.5
Aperture Type	P iris
Field of View	Horizontal: 21.2°–50.1° Vertical: 14.7°–34.4° Diagonal: 25.3°–60.3°
Function	
Trigger Mode	Video detection; radar
OSD Overlay	Time, address, lane No., plate, plate color, and more
Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blacklist, illegal access, network disconnection, and IP conflict
Automatic Network Replenishment (ANR)	Platform and FTP (TF card is required)
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 KBVISION developed algorithms to recognize license plate numbers and letters
Vehicle Type Recognition	Vehicle head: Large bus, heavy truck, medium truck, sedan, van, light truck, medium bus, SUV, MPV, and pickup Vehicle tail: SUV, large bus, sedan, light truck, pickup, medium truck, van, and heavy truck
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, orange, purple, brown, and silver gray (color recognition is not supported during the nighttime)
Vehicle logo	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
Motor Vehicle Violation Snapshot	ANPR mode: Wrong-way driving, speeding, driving slow, crossing the white solid line, crossing the yellow solid line, illegal lane change E-Police mode: Running a red light, wrong-way driving, crossing the white solid line, crossing the yellow solid line, disobeying the lane direction sign, 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	Motor vehicle illegal stopping on the roadway, traffic congestion
Video	
Video Compression	H.265; H.264M; H.264H; MJPEG
Video Resolution	4096 × 2824; QFHD (3840 × 2160); 1080p (1920 × 1080); UXGA (1600 × 1200); 720p (1280 × 720)
Video Frame Rate	50 Hz: Maximum 50 fps; default main stream (4096 × 2824@25 fps), sub stream (1600 × 1200@25 fps) 60 Hz: Maximum 30 fps; default main stream (4096 × 2824@25 fps), sub stream (1600 × 1200@25 fps)

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Video Bit Rate	H.264: 32 kbps–32768 kbps H.265: 32 kbps–32768 kbps 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
image	
Composite Image	Supports composing 1, 2, 3, or 4 images
Image Resolution	4096 (H) × 2824 (V) (OSD black background is not calculated in the pixels)
Image Encoding Format	JPEG
Image Tampering Prevention	Watermark and verification are available for 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
Protocol	IPv4; IPv6; HTTP; TCP; IP; UDP; NTP; DHCP
Interoperability	ONVIF (Profile S/Profile G/Profile T)
Browser	IE: IE 9–IE 11 Chrome: Chrome 41 and earlier Firefox: Firefox 49 and earlier Win10 needs to open the browser with administrator rights
Positioning	GPS
Time Synchronization	NTP; GPS
Port	
Storage	1, supports maximum 256 GB TF card local storage
Iris Control	1, connects to DC 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 flashing light or LED strobe sync output port, frequency adjustable)
USB	2 USB 2.0 ports
RS-485	2, connects to devices such as signal detector, strobe, continuous light, and all-in-one illuminator
RS-232	4 (1 is used for serial debugging and 3 for connecting to radars)
I/O	4, same functions as ALARM IN port
Audio Input	1, 3.5 mm (0.14") jack
Audio output	1, 3.5 mm (0.14") jack
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 +154 °F)
Operating Humidity	10%–90%
Storage Humidity	10%–90%
Protection	IP66
Product Dimensions	540.00 mm × 207.79 mm × 198.14 mm (21.26" × 8.18" × 7.80") (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])

