

# KX-FW9008ZITN2

## 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
- 4096×2820@50fps
- Video compression standards: H.265/H.264M/H.264H/H.264B/MJPEG
- Integrated design, IP66

The camera impresses people with its high-performance AI processor, traffic-specific high frame rate GS-CMOS image sensor, and deep learning algorithms. It uses sophisticated image fusion technology to display high-quality full color images at night without using external flashing light or strobe, significantly reducing light pollution. The camera is ideal for intelligent traffic management and safe city businesses with its capacities of traffic violations capturing in both ANPR and E-Police modes, passing vehicle records, traffic data collection, event detection, and more.

Image Processing		Trigger Mode	Video detection/radar/coil
Image Sensor	1" GS-CMOS	OSD Overlay	Time, location (video channel location), lane (number, direction), and plate number
Shutter Mode	Single shutter / double shutters / three shutters	Storage	FTP, TF card (maximum 256GB@Class10)
Electronic Shutter Speed	1/50 s–1/100000 s (auto/manual)	Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blacklist, abnormal device attitude, illegal access, network disconnection, and IP conflict
Exposure Mode	Full auto/customized range/customized	Automatic Network Replenishment (ANR)	Platform, FTP
Iris Control	Fixed iris/manual iris/auto iris/P iris	Image Tampering Prevention	Yes. Watermark and verification are available for videos and pictures
Lens Optional	Optional (12mm, 16mm, 25mm) (0.47", 0.63", 0.98")	Positioning Function	GPS
Image Resolution	4096×2820 (OSD black strip excluded)	Time Synchronization	NTP/GPS
Video Resolution	(4096×2820)/QFHD (3840×2160)/1080P (1920×1080)/UXGA (1600×1200)/720P (1280×720)	Attitude Detection	Built-in electronic gyroscope to detect abnormal attitude and trigger alarm
Video Frame Rate	Maximum 50fps; main stream (4096×2820@25fps), sub stream (1600×1200@25fps)	Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
Video Bit Rate	H.264: 32kbps–32768kbps H.265: 32kbps–32768kbps MJPEG: 512kbps–32768kbps	Auto Registration	Yes
Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG	Intelligence	
Picture Encoding Format	JPEG	Target Detection	Motor vehicle, non-motor vehicle
WDR	64dB	Face Detection	Detects driver and front-seat passenger of motor vehicle, and non-motor vehicle driver; extracts face image
White Balance	Auto/home/office/night/custom color temperature	Vehicle Plate Recognition	Recognizes license plates in Russian
Noise Reduction	2DNR/3DNR	Vehicle Type Recognition	Vehicle head mode: Coach bus, minibus, SUV, MPV, pickup, heavy truck, medium truck, car, van, light truck Vehicle tail mode: SUV, car, van, coach bus, pickup, cargo truck, mini truck, tank truck, mixer truck
Day/Night	ICR auto switch: IR cut-off filter (IRCF) with polarizing filter is used during daytime, and it changes to common IRCF during night time	Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, amber, purple, brown, silver gray
HLC (Highlight Compensation)	Yes	Motor Vehicle Violation Snapshot	ANPR mode: Wrong-way driving, overspeed, underspeed, disobey lane direction sign, cross white solid line, cross yellow solid line, illegal lane change, video speed measurement E-Police: Run a red light, wrong-way driving, cross white solid line, cross yellow solid line, disobey lane direction
Bad Pixel Correction	Yes		
Edge Enhancement	Yes		
Illuminator Number	3 illuminators (white light LED strobe, brightness adjustable)		
Functions			
Composite Image	Supports composing 1, 2, 3, or 4 pictures		

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	sign, disobey direction arrow, illegal left turn, illegal right turn, illegal U-turn, cross stop line Mode of yielding to pedestrians: Supports capturing vehicles that do not yield to pedestrians
Non-motor Vehicle Violation Snapshot	Captures traffic violations such as wrong-way driving, occupying motorway, overloading, and not wearing helmet
Traffic Flow Detection	Statistics of vehicle flow, average speed, vehicle type, lane occupancy, average time headway, average queue length, road status, and more; statistics can be exported in Excel
Traffic Event Detection	Detects illegal parking of motor vehicles and traffic congestion
Video Metadata	Motor vehicle: License plate, vehicle type, vehicle color, license plate color, vehicle logo, and more Non-motor vehicle: Type (two-wheelers, three-wheelers), color, wearing a helmet or not, passenger (1, 2, 3, or more)
<b>Ports</b>	
Lens Mount	C mount
Iris Control	1, connects to auto iris or P iris
Focus Control	1, connects to motorized vari-focal lens
Frequency Source Sync	1, supports synchronizing the camera with mains electricity
Peripheral Light	7, optocoupler signal output (can be configured as flashing light or LED strobe sync output interface, frequency adjustable)
Analog Output	1 BNC port
Network	2 RJ-45 Ethernet ports, 10/100/1000M network transmission
USB	2 USB 3.0 ports
GPS	1 GPS/BeiDou port
Storage	1, supports maximum 256GB TF card local storage
RS-485	2, connects to signal detector, vehicle detector, flashing light, continuous light, and more

RS-232	4 RS-232 ports. 3 for radar connection, and 1 for serial port debugging
I/O	4, capture signal input of I/O trigger, sharing with alarm in port
Alarm Input	4, share with I/O port
Alarm Output	2, AO1 relay output and AO2 optocoupler output, can be configured as alarm output or wiper output as needed
Audio In	1, 3.5mm (0.14") jack
Audio Out	1, 3.5mm (0.14") jack
Power Output	12V DC±10% voltage output, ≤1.5A current output

<b>General</b>	
Power Supply	100V AC–240V AC (50Hz/60Hz)
Power Consumption	≤20W
Operating Temperature	–40°C to +65°C (–40°F to +149°F)
Operating Humidity	10%–90%
Protection Grade	IP66
Dimensions	540.00mm×207.79mm×198.14mm (21.26"×8.18"×7.80") (L×W×H)
Net Weight	4.6kg (10.14lb)
Gross Weight	6.6kg (14.55lb)
Installation	Universal joint installation
Power Adaptor	Standard

### Dimensions (mm/inch)

