

KX-FW3008STITN2

3MP 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
- 2048×1536@50fps
- Video compression standards: H.265/H.264M/H.264H/H.264B/MJPEG
- Integrated design, IP66
- Support Ryder technology

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	
Image Sensor	1/1.8" GS-CMOS
Shutter Mode	Single shutter / holographic double shutters / three shutters
Electronic Shutter Speed	1/50 s–1/100000 s (auto/manual)
Exposure Mode	Full auto/customized range/customized
Iris Control	Fixed iris/manual iris/auto iris/P iris
Lens Optional	(12mm, 16mm, 25mm) (0.47", 0.63", 0.98")
Image Resolution	2048×1536 (OSD black strip excluded)
Video Resolution	3M (2048×1536)/UXGA (1600×1200)/1080P (1920×1080)/720P (1280×720)/D1 (704×576)/CIF (352×288)
Video Frame Rate	Maximum 50fps; main stream (1536×2048@25fps), sub stream (1600×1200@25fps)
Video Bit Rate	H.264: 32kbps–32767kbps H.265: 32kbps–32767kbps MJPEG: 512kbps–32767kbps
Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG
Picture Encoding Format	JPEG
WDR	64dB
White Balance	Auto/outdoor/manual/local white balance/natural light/street light
Noise Reduction	2DNR/3DNR
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
HLC (Highlight Compensation)	Yes
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
Trigger Mode	Video detection/radar/coil
OSD Overlay	Time, location (video channel location), lane (number, direction), and plate number
Storage	FTP, TF card (maximum 512GB@Class10)
Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blacklist, abnormal device attitude, illegal access, network disconnection, and IP conflict
Automatic Network Replenishment (ANR)	Platform, FTP
Image Tampering Prevention	Yes. Watermark and verification are available for videos and pictures
Positioning Function	GPS
Time Synchronization	NTP/GPS
Attitude Detection	Built-in electronic gyroscope to detect abnormal attitude and trigger alarm
Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
Auto Registration	Yes
Intelligence	
Target Detection	Motor vehicle, non-motor vehicle
Face Detection	Detects driver and front-seat passenger of motor vehicle, and non-motor vehicle driver; extracts face image
Vehicle Plate Recognition	Recognizes license plates in Russian
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
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, amber, purple, brown, silver gray

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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 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, threewheelers), color, wearing a helmet or not, passenger (1, 2, 3, or more)
Ports	
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
Storage	1, supports maximum 512GB 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

General	
Power Supply	100V AC–240V AC (50Hz/60Hz), ± 10% voltage output
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
Lightning Protection	4,5 kV

