

# DHI-ITC952-AU3F-IRL7ZF1640

9MP All-in-one IR AI Enforcement Camera



- GS-CMOS image sensor.
- 4096 × 2820@50fps.
- · Video compression standards: H.265/H.264M/H.264H/H.264B/MJPEG.
- Integrated design, IP66.
- 730nm IR illumination.

### System Overview

The camera impresses people with its high-performance AI processor, traffic-specific high frame rate GS-CMOS image sensor, and deep learning algorithms. The IR LED illuminators help supplement light when the camera capture license plates, 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.

This ANPR camera ,Up to 95% ANPR rate and its capture speed can reach 200 km/h

### **Reduced light pollution**

The IR illuminators help supplement light when the camera capture license plates, without using external flashing light or strobe, significantly reducing light pollution.

### Ultra-high frame rate

Uses traffic-specific high-performance GS-CMOS image sensor with 50fps ultra-high frame rate, high signal-to-noise ratio and wide dynamic range, displaying realistic video images day and night.

### Video metadata

High-performance AI processor and deep learning algorithms allow the camera to detect and extract detailed information of motor and non-motor vehicles, providing reliable data source for business decisionmaking.

### Applicable to various road scenes

Ideal for use in both ANPR and E-Police modes, capable of capturing more than ten kinds of traffic violations, and supports traffic information collection and event detection, suitable for various road scenarios.

### Multi-dimensional data sensing

This is realized through GPS/BeiDou positioning.

### Safe and reliable performance

Integrated design, built-in lightning protection module, IP66 protection grade, and wide temperature and voltage ranges, applicable to use in all-weather conditions.

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Technical Specification	on		Target Detection	Motor vehicle, non-motor vehicle
Image Processing			Face Detection	Detects driver and front-seat passenger of motor vehicle, and non-motor vehicle driver; extracts face image
Image Sensor	1" GS-CMOS		Vehicle Plate Recognition	Recognizes license plates in Russian
Shutter Mode	Single shutter / double shutters / three shutters		Vehicle Type Recognition	Vehicle head mode: Coach bus, minibus, SUV, MPV, pickup, heavy truck, medium truck, van, light truck Vehicle tail mode: SUV, car, van, coach bus, pickup, cargo truck, mini truck, tank truck, mixer truck
Electronic Shutter Speed	1/50 s–1/100000 s (auto/manual)			
Exposure Mode	Full auto/customized range/customized			White, pink, black, red, yellow, gray, blue, green, amber,
Iris Control	Fixed iris/manual iris/auto iris/P iris		Vehicle Color Recognition	purple, brown, silver gray (color recognition is not supported during nighttime)
Image Resolution	4096 × 2820 (OSD black strip excluded)		und soli Vide E-Pe soli Motor Vehicle Violation sigr Snapshot turr can stra the ligh Mo	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 (not supported by side-installation camera), cross stop line, not yield to pedestrians going straight when turning right (for vehicles without plate, the camera can only detect violations of running a red light and wrong-way driving); Mode of yielding to pedestrians: Supports capturing vehicles that do not yield to pedestrians
Video Resolution	(4096 × 2820)/QFHD (3840 × 2160)/1080P (1920 × 1080)/UXGA (1600 × 1200)/720P (1280 × 720)			
Video Frame Rate	Maximum 50 fps; main stream (4096 × 2820@25 fps), sub stream (1600 × 1200@25 fps)			
Video Bit Rate	H.264: 32 kbps–32768 kbps H.265: 32 kbps–32768 kbps MJPEG: 512 kbps–32768 kbps			
Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG			
Picture Encoding Format	JPEG			
WDR	64dB		Non-motor Vehicle Violation Snapshot	Captures traffic violations including carrying passenger, not wearing helmet, wrong-way driving, and occupying motorway
White Balance	Auto/home/office/night/custom color temperature			Statistics of vehicle flow, queue length, average speed,
Noise Reduction	2DNR/3DNR		Traffic Flow Detection	lane occupancy, and more; statistics can be exported in Excel
Day/Night	Supports ICR auto switch: IR cut-off filter (IRCF) with polarizing filter is used during daytime, and IR will not be filtered during nighttime		Traffic Event Detection	Detects illegal parking and wrong-way driving of motor vehicles and traffic congestion
HLC (Highlight Compensation)	Yes		Video Metadata	Motor vehicle: License plate, vehicle type, vehicle color, license plate color, vehicle logo, and more (color recognition is not supported during nighttime) Non-motor vehicle: Type (two-wheelers, three- wheelers), carrying passenger or not, wearing a helmet
Bad Pixel Correction	Yes			
Edge Enhancement	Yes			or not, and color
Illuminator Number	8 illuminators (730nm IR illuminators, brightness adjustable)		Port Iris Control	1, connects to auto iris or P iris
Illumination Distance	50 m (164.04 ft)			
Function			Focus Control	1, connects to motorized vari-focal lens 1, supports synchronizing the camera with mains
Composite Image	Supports composing 1, 2, 3, or 4 pictures		Frequency Source Sync	electricity
Trigger Mode	Video detection/radar/coil		Peripheral Light	7, optocoupler signal output (can be configured as flashing light or LED strobe sync output interface,
OSD Overlay	Time, location (video channel location), lane (number, direction), and plate number			frequency adjustable) 2 RJ-45 Ethernet ports, 10/100/1000M network
Storage	FTP, TF card (maximum 256GB@Class10)		Network	transmission
Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blacklist, abnormal device attitude, illegal access, network disconnection, and IP conflict		USB	2 USB 3.0 ports
, admi Event			GPS	1 GPS/BeiDou port
Automatic Network Replenishment (ANR)	Platform, FTP		Storage	1, supports maximum 256GB TF card local storage
Image Tampering Prevention	Yes. Watermark and verification are available for videos and pictures		RS-485	2, connects to signal detector, vehicle detector, flashing light, continuous light, and more
Positioning Function	GPS/BeiDou		RS-232	4 RS-232 ports. 3 for radar connection, and 1 for serial port debugging
Time Synchronization	NTP/GPS/BeiDou		I/O	4, capture signal input of I/O trigger, sharing with alarm in port
Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control		Alarm Input	4, share with I/O port
Auto Registration	Yes		Alarm Output	2, AO1 relay output and AO2 optocoupler output, can
Intelligence				be configured as alarm output or wiper output as needed

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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		
General			
Lens	16mm–40mm IR lens		
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	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	Universal joint installation		
Power Adapter	Standard		

# **Ordering Information**

Туре	Part Number	Description
Al Enforcement Camera	DHI-ITC952-AU3F- IRL7ZF1640	9MP all-in-one IR AI enforcement camera
Accessory	8018	3-dimensional universal mounting bracket, needs to be purchased separately. Brackets required = number of cameras + number of flashing lights

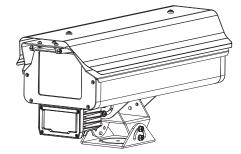
## Accessories

### **Optional:**



8018 3-dimensional universal mounting bracket, needs to be purchased separately. Brackets required = number of cameras + number of flashing lights

### Installation



# Dimensions (mm[inch])

