

# DHI-ITC952-RU2D-IRL8

9-MP Al-in-one IR Al Enforcement Camera



- GS-CMOS image sensor.
- · 4096 × 2160@50 fps.
- · Video compression standards: H.265/H.264M/H.264H/H.264B/MJPEG.
- · Integrated design, IP66 rated.
- · 850 nm 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.

#### **Functions**

#### **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**

The multi-dimensional data sensing 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.

Image Processing		Target Detection	Motor vehicle, non-motor vehicle
Image Sensor	1" GS-CMOS	Face Detection	Detects driver and front-seat passenge and non-motor vehicle driver; extracts
Shutter Mode	Single shutter/double shutters/three shutters	Vehicle Plate Recognition	Recognizes license plates in Russian
Electronic Shutter Speed	1/50 s-1/100,000 s (auto/manual)	Vehicle Plate Recognition  Vehicle Type Recognition  Vehicle Type Recognition  Vehicle tail mode: SUV, car, van, coach by truck, mini truck, tank truck, mixer truck	
Exposure Mode	Full auto/customized range/customized		
Iris Control	Fixed iris/manual iris/auto iris/P iris		White, pink, black, red, yellow, gray, bl
Lens	Optional (12 mm, 16 mm, 25 mm)	Vehicle Color Recognition	purple, brown, silver gray (color recognisupported during nighttime)
Image Resolution	4096 × 2160 (OSD black strip excluded)		ANPR mode: Wrong-way driving, oversgunderspeed, disobey lane direction sign solid line, cross yellow solid line, illegal video speed measurement; E-Police: Run a red light, wrong-way drisolid line, cross yellow solid line, disobe sign, disobey direction arrow, illegal left turn, illegal U-turn (not supported by sicamera), cross stop line, not yield to pe
/ideo Resolution	4096 × 2160/3392 × 2008/UXGA (1600 × 1200)/720p (1280 × 720)/D1 (704 × 576)/CIF (352 × 288)		
Video Frame Rate	Maximum 50 fps; main stream (4096 $\times$ 2160@25 fps), sub stream (1600 $\times$ 1200@25 fps)		
Video Bit Rate	H.264: 32 kbps–32,768 kbps H.265: 32 kbps–32,768 kbps MJPEG: 512 kbps–32,768 kbps	Motor Vehicle Violation Snapshot	
Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG		straight when turning right (for vehicle the camera can only detect violations
Picture Encoding Format	JPEG		light and wrong-way driving); Mode of yielding to pedestrians: Supp
WDR	64 dB		vehicles that do not yield to pedestrians
White Balance	Auto/home/office/night/custom color temperature	Non-motor Vehicle Violation Snapshot	Captures traffic violations including cannot wearing helmet, wrong-way driving motorway
Noise Reduction	2D NR/3D NR		Statistics of vehicle flow, queue length
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 the nighttime	Traffic Flow Detection	lane occupancy, and more; statistics cain Excel
HLC (Highlight Compensation)	Yes	Traffic Event Detection	Detects illegal parking and wrong-way vehicles and traffic congestion
Bad Pixel Correction	Yes		Motor vehicle: License plate, vehicle type, color, license plate color, vehicle logo, and recognition is not supported during nightti Non-motor vehicle: Type (two-wheelers, the wheelers), carrying passenger or not, weal or not, and color
Edge Enhancement	Yes	Video Metadata	
lluminator Number	10 illuminators (850 nm IR illuminators, brightness adjustable)		
Function		Port	
Composite Image	Supports composing 1, 2, 3, or 4 pictures	Lens Mount	C mount
Trigger Mode	Video detection/radar/coil	Iris Control	1, connects to auto iris or P iris
OSD Overlay	Time, location (video channel location), lane (number, direction), and plate number	Focus Control	1, connects to motorized vari-focal len
Storage	FTP, TF card (maximum 256GB@Class10)	Frequency Source Sync	1, supports synchronizing the camera velectricity
Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blacklist, abnormal device attitude, illegal access, network disconnection, and IP conflict	Peripheral Light	7, optocoupler signal output (can be co flashing light or LED strobe sync output frequency adjustable)
Automatic Network Replenishment (ANR)	Platform, FTP	Analog Output	1 BNC port
mage Tampering Prevention	Yes. Watermark and verification are available for videos and pictures	Network	2 RJ-45 Ethernet ports, 10/100/1,000N transmission
Positioning Function	GPS/BeiDou	USB	2 USB 3.0 ports
Time Synchronization	NTP/GPS/BeiDou	GPS	1 GPS/BeiDou port
Attitude Detection	Built-in electronic gyroscope to detect abnormal attitude and trigger alarm	Storage	1, supports maximum 256 GB TF card l
	Authorized username and password, MAC address	RS-485	2, connect to signal detector, vehicle of light, continuous light, and more
Security	binding, HTTPS encryption, and network access control		iight, continuous light, and more

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1/0	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, 3.5 mm (0.14") jack
Audio Out	1, 3.5 mm (0.14") jack
Power Output	12 V DC±10% voltage output, ≤ 1.5 A current output

## General

Power Supply	100 V AC-240 V AC (50 Hz/60 Hz)	
Power Consumption	≤ 20 W	
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)	
Operating Humidity	10%-90%	
Protection Grade	IP66	
Dimensions	544.0 mm × 195.5 mm × 159.5 mm (21.42" × 7.70" × 6.28") (L × W × H)	
Net Weight	8.0 kg (17.64 lb)	
Gross Weight	8.5 kg (18.74 lb)	
Certification	UL, CE, FCC	
Installation	Universal joint installation	
Power Adapter	Standard	

Ordering Information					
Туре	Part Number	Description			
AI Enforcement Camera	DHI-ITC952-AU3F- IRL8	9-MP all-in-one IR AI enforcement camera -IRL8: Designed with 850nm IR illuminators			
Accessory	8018	3-dimensional universal mounting bracket, needs to be purchased separately. Brackets required = number of cameras + number of flashing lights			

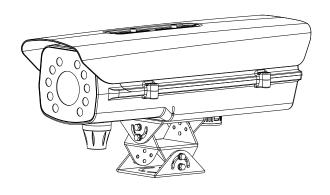
## Accessories

## Optional:



8018 3-dimensional universal mounting bracket

## Installation



## Dimensions (mm[inch])

