

# DHI-ITC352-AU3F-IRL8

3MP All-in-one Al Enforcement Camera



- · GS-CMOS image sensor
- · 2048×1536@50fps
- Video compression standards: H.265/H.264M/H.264H/H.264B/MJPEG
- Integrated design, IP66
  ANPR coverage: 1 ~ 2 lanes
- · Capture Speed Range: up to 200Km/h

#### **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. 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.

#### **Functions**

## Reduced light pollution

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.

#### Ultra-high frame rate

Uses traffic-specific high-performance GS-CMOS image sensor with 50fps 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 and attitude detection by electronic gyroscope.

#### 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.

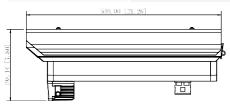
Technical Specification		Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access of
Image Processing		Auto Registration	Yes
Image Sensor	1/1.8" GS-CMOS	Intelligence	
Shutter Mode	Single shutter / holographic double shutters / three shutters	Target Detection	Motor vehicle, non-motor vehicle
Electronic Shutter Spee	2d 1/50 s-1/100000 s (auto/manual)	Face Detection	Detects driver and front-seat passenger of moto and non-motor vehicle driver; extracts face image
Exposure Mode	Full auto/customized range/customized	Vehicle Plate Recognition	Recognizes license plates, including Mercosul and
Iris Control	Fixed iris/manual iris/auto iris/P iris		Vehicle head mode: Coach bus, minibus, SUV, M
Lens	Optional	Vehicle Type Recognition	pickup, heavy truck, medium truck, car, van, ligh Vehicle tail mode: SUV, car, van, coach bus, pick truck, mini truck, tank truck, mixer truck
Image Resolution	2048×1536 (OSD black strip excluded)	Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green
Video Resolution	3M (2048×1536)/UXGA (1600×1200)/1080P (1920×1080)/720P (1280×720)/D1 (704×576)/CIF (352×288)	venicle color recognition	purple, brown, silver gray  ANPR mode: Wrong-way driving, overspeed, underspeed, disobey lane direction sign, cross w
Video Frame Rate	Maximum 50fps; main stream (1536×2048@25fps), sub stream (1600×1200@25fps)	Motor Vehicle Violation Snapshot	solid line, cross yellow solid line, illegal lane change video speed measurement E-Police: Run a red light, wrong-way driving, cross v solid line, cross yellow solid line, disobey lane direc sign, disobey direction arrow, illegal left turn, illega turn, illegal U-turn, cross stop line Mode of yielding to pedestrians: Supports capturin
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		vehicles that do not yield to pedestrians  Captures traffic violations such as wrong-way dri
Picture Encoding Forma	at JPEG	Non-motor Vehicle Violation Snapshot	occupying motorway, overloading, and not wear helmet
WDR	64dB		Statistics of vehicle flow, average speed, vehicle
White Balance	Auto/outdoor/manual/local white balance/natural light/ street light	Traffic Flow Detection	lane occupancy, average time headway, average length, road status, and more; statistics can be e in Excel
Noise Reduction	2DNR/3DNR	Traffic Event Detection	Detects illegal parking of motor vehicles and traf
Day/Night	ICR auto switch: IR cut-off filter (IRCF) with polarizing filter is used during daytime, and it changes to common IRCF during nighttime	Traine Event Betechon	congestion  Motor vehicle: License plate, vehicle type, vehicl license plate color, vehicle logo, and more
HLC (Highlight Compensation)	Yes	Video Metadata	Non-motor vehicle: Type (two-wheelers, three- wheelers), color, wearing a helmet or not, passer 2, 3, or more)
Bad Pixel Correction	Yes	Ports	
Edge Enhancement	Yes	Lens Mount	C mount
Illuminator Number	3 illuminators (IR light LED strobe, brightness adjustable) 25m IR distance 850nm wavelength	Iris Control	1, connects to auto iris or P iris
Function	g .	Focus Control	1, connects to motorized vari-focal lens
Composite Image	Supports composing 1, 2, 3, or 4 pictures	Frequency Source Sync	supports synchronizing the camera with main: electricity
Trigger Mode	Video detection/radar/coil		7, optocoupler signal output (can be configured
OSD Overlay	Time, location (video channel location), lane (number, direction), plate number, vehicle details (type, color and speed)	Peripheral Light	flashing light or LED strobe sync output interface frequency adjustable)
Storage	FTP, TF card (maximum 256GB@Class10)	Analog Output	1 BNC port
Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blacklist, abnormal device attitude,	Network	2 RJ-45 Ethernet ports, 10/100/1000M network transmission
	illegal access, network disconnection, and IP conflict	USB	2 USB 3.0 ports
Automatic Network Replenishment (ANR)	Platform, FTP	GPS	1 GPS/BeiDou port
Image Tampering Prevention	Yes. Watermark and verification are available for videos and pictures	Storage	1, supports maximum 256GB TF card local storage
Positioning Function	GPS/BeiDou	RS-485	2, connects to signal detector, vehicle detector, light, continuous light, and more
Time Synchronization	NTP/GPS/BeiDou	RS-232	4 RS-232 ports. 3 for radar connection, and 1 for port debugging
Attitude Detection	Built-in electronic gyroscope to detect abnormal attitude and trigger alarm	I/O	4, capture signal input of I/O trigger, sharing with in port

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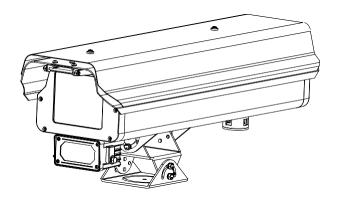
Alarm Input	4, share with I/O port	
Alarm Output	2, AO1 relay output and AO2 optocoupler output, can be configured as alarm output or wiper output as needed	

## General

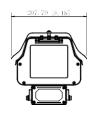
Power Supply	100V AC-240V AC (50Hz/60Hz)
Power Consumption	≤20W
Operating Temperature	-40°C to +65°C (-40°F to +149°F)
Operating Humidity	10%–90%
Protection Grade	IP66
Dimensions	540.00mm×207.79mm×198.14mm (21.26"×8.18"×7.80") (L×W×H)
Net Weight	4.6kg (10.14lb)
Gross Weight	6.6kg (14.55lb)
Installation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



## Installation



## Dimensions (mm[inch])



Acessories					
Туре	Part Number	Description			
Al Enforcement Camera	DHI-ITC352-AU3F- IRL8	3MP all-in-one Al enforcement camera -L: Model with 18" protective cover			
Accessories	PFA162	3-dimensional universal mounting bracket, needs to be purchased separately Brackets required = number of cameras + number of flashing lights			
	PEI 1040-K9PE	Dahua's motorized varifocal lens 9mp 10-40mm			

## Accessories

## **Optional:**



PFA162 3-dimensional universal mounting bracket

