

DHI-ITC352-AU3F-IRL7ZF1640

3MP All-in-one IR AI Enforcement Camera



• GS-CMOS image sensor.

- 2048 × 1536@50 fps.
- · Video compression standards: H.265, H.264M, H.264H and MJPEG.
- Integrated design, IP66 rated.
- 730 nm IR illumination.

System Overview

With its high-performance AI processor, 3MP All-in-one IR AI With its high-performance AI processor, 3MP All-in-one IR AI Enforcement Camera delivers excellent quality images even in the toughest weather conditions. For monitoring, it uses deep learning algorithms and traffic-specific, GS-CMOS image sensors with a wide dynamic range and high frame rate. The IR illuminators supplement light when the camera captures license plates without using the external flashing light or strobe, significantly reducing light pollution.

Functions

Reduced light pollution

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

Ultra-high frame rate

Uses traffic-specific, high-performance GS-CMOS image sensors with a wide dynamic range, high frame rate, and high signal-to-noise ratio, displaying realistic video images in the day and night.

Video metadata

Deep learning algorithms and a high-performance AI processor allow the camera to detect and extract detailed information on motor vehicles, providing a reliable data source that can be used in making effective decisions.

Applicable to various road scenes

Ideal for scenarios where license plate recognition is needed, the camera is capable of capturing more than ten different types of traffic violations, and supports traffic information collection and event detection. It is suitable for road scenarios.

Multi-dimensional data sensing

Using GPS positioning and behavior detection by electronic gyroscope, the camera realizes multi-dimensional data sensing.

Safe and reliable performance

Built to withstand the toughest conditions, this camera functions in a wide temperature and voltage range. It has a built-in lightning protection module, and is IP66 certified. Feel safe using it in all-weather types.

Scene

The camera is ideal for use in intelligent traffic management and for smart city businesses. It is capable of detecting traffic violations, capturing license plates, generating passing vehicle records, collecting traffic data, and detecting events.

Technical Specification

Camera		
Image Sensor	2/3" GS-CMOS	
Shutter Mode	Single shutter; Double shutter; Three shutters	
Electronic Shutter Speed	50 Hz: 1/50 s–1/100,000 s (auto; manual) 60 Hz: 1/60 s–1/100,000 s (auto; manual)	
Noise Reduction	3D NR; 2D NR	
S/N	48 dB	
WDR	90 dB	
Minimum intensity	0.001 lux	
Day/Night	Supports ICR auto switch: IR cut-off filter (IRCF) with the polarizing filter is used during the daytime, and switches to the IR transmitting filter at night	
Illuminator		
Illuminator Number	8	
IR	730 nm	
Illumination Distance	23 m–30 m (75.46 ft–98.43 ft) (adjustable brightness)	
IR Covered lane	2 lanes	

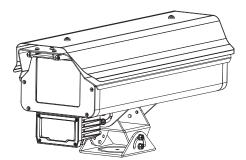
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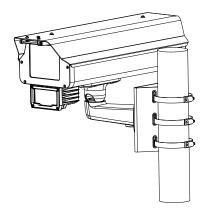
Lens		
Lens Type	Motorized vari-focal	
Focal Length	16 mm–40 mm	
Max. Aperture	F1.5	
Aperture Type	P iris	
Field of View	Horizontal: 12.8°–30.28° Vertical: 7.2°–16.96° Diagonal: 13.2°–30.9°	
Function		
Trigger Mode	Video detection; Radar	
OSD Overlay	Time, address, lane No., plate, plate color, and more.	
Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blocklist, illegal access, network disconnection, and IP conflict	
Automatic Network Replenishment (ANR)	Platform, FTP (SD card is required)	
Auto Registration	Yes	
Intelligence		
Target Detection	Motor vehicle; Motorcycle vehicle	
Face Detection	Detects the driver and front-seat passenger of motor vehicles, and motorcycle drivers; extracts face images	
ANPR	Adopts Dahua developed algorithms to recognize license plate numbers and letters	
Vehicle Type Recognition	Vehicle head: Large bus, heavy truck, medium truck, sedan, van, light truck, medium bus, SUV, MPV, and pickup Vehicle tail: SUV, large bus, sedan, light truck, pickup, medium truck, van, and heavy truck	
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, orange, purple, brown, and silver gray (color recognition is not supported during the nighttime)	
Vehicle logo	Vehicle head mode: Acura; Alfaromeo; Ashokleyland; Astonmartin; Audi; Baic; Bently; Benz; BMW; Buick; BYD, Cadillac; Chery; Chevrolet; Chrysler; Citroen; Dacia; Daihatsu; Datsun; Dodge; DS; Ferrari; Fiat; Force; Ford; Foton; Geely; GMC; Greatwall; Hino; Honda; Hyundai; Infiniti; Isuzu; Iveco; Jac; Jaguar; Jeep; Kia; Kinglong; Land; Lexus; Lifan; Lincoln; Mahindra; Man; Maserati; Mazda; Mercury; MG; Mini; Mitsubishi; Nissan; Opel; Peugeot; Porsche; Renault; Rollsroyce; Saab; Scania; Seat; Skoda; Smart; Subaru; Suzuki; Tata; Tesla; Toyota; UD; Volkswagen; Volvo	
Motor Vehicle Violation Snapshot	ANPR mode: Wrong-way driving, speeding, driving slow, crossing the white solid line, crossing the yellow solid line, illegal lane change	
Motorcycle vehicle Violation Capture	Captures traffic violations including carrying passenger, not wearing helmet, wrong-way driving	
Traffic Flow Detection	Generates statistics on vehicle flow, queue length, average speed, lane occupancy, and more.	
Traffic Event	Motor vehicle illegal stopping on the roadway, traffic congestion	
Video		
Video Compression	H.265; H.264M; H.264H; MJPEG	
Video Resolution	3M (2048 × 1536); UXGA (1600 × 1200); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)	

50 Hz: Maximum 50 fps; default main stream (1536 × 2048@25 fps), sub stream (1600 × 1200@25 fps) 60 Hz: Maximum 60 fps; default main stream (1536 × 2048@25 fps), sub stream (1600 × 1200@25 fps)
H.264: 32 kbps–32768 kbps H.265: 32 kbps–32768 kbps MJPEG: 512 kbps–32768 kbps
CBR; VBR
Auto; night; custom color temperature
Yes
Yes
Yes
Yes
0-100
Supports composing 1, 2, 3, or 4 images
2048 (H) × 1536 (V) (OSD black background is not calculated in the pixels)
JPEG
Watermark and verification are available for videos and images
2 RJ-45 Ethernet ports, 10/100/1000 M network transmission
Yes
Authorized username and password, MAC address binding, HTTPS encryption, and network access control
IPv4; IPv6; HTTP; TCP; IP; UDP; NTP; DHCP
ONVIF (Profile S/Profile G/Profile T)
IE: IE 9-IE 11 Chrome: Chrome 41 and earlier Firefox: Firefox 49 and earlier Win10 needs to open the browser with administrator rights
GPS
NTP; GPS
1, supports maximum 256 GB TF card local storage
1, connects to DC iris or P iris
1, connects to motorized vari-focal lens
1, supports synchronizing the camera with mains electricity
7, optocoupler signal output (can be configured as flashing light or LED strobe sync output port, frequency adjustable)
2 USB 2.0 ports
2, connects to devices such as signal detector, strobe, continuous light, and all-in-one illuminator
4 (1 is used for serial debugging and 3 for connecting to radars)

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I/O	4, same functions as ALARM IN port	
Audio Input	1, 3.5 mm (0.14'') jack	
Audio output	1, 3.5 mm (0.14'') jack	
Alarm Input	4, same functions as I/O port	
Alarm Output	2 (AO1 is for relay output and AO2 for optocoupler output)	
Power Output	12 VDC ±10% voltage output, \leq 1.5 A current output	
General		
Power Supply	100–240 VAC, 50 Hz/60 Hz	
Power Consumption	≤ 20 W	
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)	
Storage Temperature	-40 °C to +70 °C (-40 °F to +154 °F)	
Operating Humidity	10%-90%	
Storage Humidity	10%-90%	
Protection	IP66	
Certifications	CE: 4789630630-1, FCC: 4789630630-2	
Product 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	Center mount; Side mount	





Dimensions (mm [inch])

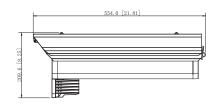
Ordering Information Type Model Description Al Enforcement Camera DHI-ITC352-AU3F-IRL7ZF1640 3 MP all-in-one IR AI enforcement camera Accessories (Optional) 8018 3-dimensional universal mounting bracket (purchase separately)

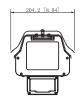
Accessories

Optional:



8018 3-dimensional universal mounting bracket (purchase separately)





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