

DHI-ITC352-AU3F-IRL8ZF1640

3MP All-in-one IR Al 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.
- 850 nm IR illumination.

System Overview

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 rated. 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	850 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		Video Frame Rate	50 Hz: Maximum 50 fps; default main stream (1536 × 2048@25 fps), sub stream (1600 × 1200@25 fps)
Lens Type	Motorized vari-focal	video Frante Nate	60 Hz: Maximum 60 fps; default main stream (1536 \times 2048@25 fps), sub stream (1600 \times 1200@25 fps)
Focal Length	16 mm–40 mm	Video Bit Rate	H.264: 32 kbps-32768 kbps H.265: 32 kbps-32768 kbps
Max. Aperture	F1.5	Video Bit Nate	MJPEG: 512 kbps–32768 kbps
Aperture Type	P iris	Bit Rate Control	CBR; VBR
Field of View	Horizontal: 12.8°–30.28° Vertical: 7.2°–16.96°	White Balance	Auto; night; custom color temperature
Function	Diagonal: 13.2°–30.9°	Edge Enhancement	Yes
	Will be with	HLC	Yes
Trigger Mode	Video detection; radar	BLC	Yes
OSD Overlay	Time, address, lane No., plate, plate color, and more	Bad Pixel Correction	Yes
Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blocklist, illegal access, network disconnection, and IP conflict	Gain Scope	0–100
Automatic Network	Platform and FTP (TF card is required)	image	
Replenishment (ANR)		Composite Image	Supports composing 1, 2, 3, or 4 images
Auto Registration Intelligence	Yes	Image Resolution	2048 (H) \times 1536 (V) (OSD black background is not calculated in the pixels)
-		Image Encoding Format	JPEG
Target Detection	Motor vehicle; motorcycle Detects the driver and front-seat passenger of motor	Image Tampering Prevention	Watermark and verification are available for videos and images
Face Detection	vehicles, and motorcycle drivers; extracts face images	Network	
ANPR	Adopts Dahua developed algorithms to recognize license plate numbers and letters	Network Port	2 RJ-45 Ethernet ports, 10/100/1000 M network transmission
	Vehicle head: Large bus, heavy truck, medium truck, sedan, van, light truck, medium bus, SUV, MPV, and	SDK and API	Yes
	pickup Vehicle tail: SUV, large bus, sedan, light truck, pickup, medium truck, van, and heavy truck	Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, orange, purple, brown, and silver gray (color recognition is not	Protocol	IPv4; IPv6; HTTP; TCP; IP; UDP; NTP; DHCP
	supported during the nighttime)	Interoperability	ONVIF (Profile S/Profile G/Profile T)
Astonmartin, Audi, Baic, Bently, Benz, BN BYD, Cadillac, Chery, Chevrolet, Chrysler, Daihatsu, Datsun, Dodge, DS, Ferrari, Fia Foton, Geely, GMC, Greatwall, Hino, Hon	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,	Browser	IE: IE 9–IE 11 Chrome: Chrome 41 and earlier Firefox: Firefox 49 and earlier Win10 needs to open the browser with administrator rights
	Miniti, Isuzu, Iveco, Jac, Jaguar, Jeep, Ria, Kingiong, 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,	Positioning	GPS
Peu		Time Synchronization	NTP; GPS
Volkswager	Volkswagen, Volvo ANPR mode: Wrong-way driving, speeding, driving slow,	Port	
Motor Vehicle Violation Snapshot	crossing the white solid line, crossing the yellow solid line, illegal lane change, unfasten seat belt, calling while	Storage	1, supports maximum 256 GB TF card local storage
Mataravala vahiala	driving, smoking while driving	Iris Control	1, connects to DC iris or P iris
Motorcycle vehicle Violation Capture	Captures traffic violations including carrying passenger, not wearing helmet, and wrong-way driving	Focus Control	1, connects to motorized vari-focal lens
Traffic Flow Detection	Generates statistics on vehicle flow, queue length, average speed, lane occupancy, and more	Frequency Source Sync	1, supports synchronizing the camera with the mains electricity
Traffic Event	Motor vehicle illegal stopping on the roadway, traffic congestion	Peripheral Light	7, optocoupler signal output (can be configured as flashing light or LED strobe sync output port, frequency adjustable)
Video		USB	2 USB 2.0 ports
Video Compression	H.265; H.264M; H.264H; MJPEG	RS-485	2, connects to devices such as signal detector, strobe, continuous light, and all-in-one illuminator
Video Resolution	3M (2048 × 1536); UXGA (1600 × 1200); 1080p (1920 × 1080); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)	RS-232	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 $\pm 10\%$ voltage output, ≤ 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 \times 204.2 mm \times 209.6 mm (21.81" \times 8.04" \times 8.25") (L \times W \times H)
Product Dimensions Net Weight	,
	8.25") (L × W × H)

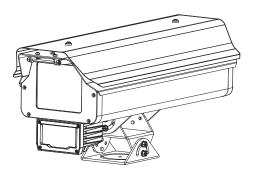
Ordering Information				
Туре	Model	Description		
AI Enforcement Camera	DHI-ITC352-AU3F- IRL8ZF1640	3MP all-in-one IR AI enforcement camera		
Accessories (Optional)	8018	3-dimensional universal mounting bracket (purchase separately)		

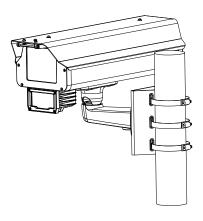
Accessories

Optional:



8018
3-dimensional universal mounting bracket (purchase separately)





Dimensions (mm [inch])

