

DHI-ITC952-AU3F-IRL8ZF1640

Dahua 9MP All-in-One Enforcement Camera



System Overview

With its high-performance AI processor, 9MP 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.

Multi-dimensional Data Sensing

Using GPS positioning, the camera realizes multi-dimensional data sensing.

- · GS-CMOS image sensor.
- 4096 × 2336@50 fps.
- Video compression standards: H.265, H.264M, H.264H and MJPEG.
- · Works in poor lighting and does not smear.
- · High-speed capture.
- · Integrated design, IP66 and IK10 rated.
- Under recommended installation and lighting conditions:

Capture rate > 99%

LPR accuracy > 98%

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. 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	on		White, pink, black, red, yellow, gray, blue, green, dark	
Camera		Vehicle Color Recognition	orange, purple, brown, and silver gray (color recognition is not supported during the nighttime)	
Image Sensor	1.1" GS-CMOS		Vehicle head mode: Acura, Alfaromeo, Ashokleyland, Astonmartin, Audi, Baic, Bently, Benz, BMW, Buick,	
Shutter Mode	Single shutter; Double shutters; Three shutters		BYD, Cadillac, Chery, Chevrolet, Chrysler, Citroen, Dacia, Daihatsu, Datsun, Dodge, DS, Ferrari, Fiat, Force, Ford,	
Electronic Shutter Speed	Auto/Manual 1/50 s-1/100,000 s	Vehicle Brand/Logo Recognition	Foton, Geely, GMC, Greatwall, Hino, Honda, Hyundai, Infiniti, Isuzu, Iveco, Jac, Jaguar, Jeep, Kia, Kinglong, Lond Lower Lifen Lincoln Mahindra MAN Macareti	
Noise Reduction	3D NR	·	Land, Lexus, Lifan, Lincoln, Mahindra, MAN, Maserati, Mazda, Mercury, MG, Mini, Mitsubishi, Nissan, Opel, Peugeot, Porsche, Renault, Rollsroyce, Saab, Scania, Seat,	
S/N Ratio	48 dB		Skoda, Smart, Subaru, Suzuki, Tata, Tesla, Toyota, UD, Volkswagen, Volvo	
WDR	120 dB		ANPR mode: Wrong-way driving, speeding, driving slow, crossing the white solid line, crossing the yellow solid line, illegal lane change, unfasten seat belt, calling while	
Min. Illumination	0.001 lux			
Day/Night	ICR auto switch: Uses IR cut-off filter (IRCF) with polarizer in the daytime, and uses ordinary filter at night.	Motor Vehicle Violation Capture	driving, smoking while driving E-Police mode: Running a red light, wrong-way driving, crossing the solid white line, crossing the solid yellow	
Illuminator			line, disobeying the direction arrow, illegal left turn, illegal right turn, illegal U-turn (not supported by side-	
Illuminator Number	8		mounted cameras), and crossing the stop line	
IR Light	Yes	Motorcycle Violation Capture	Captures traffic violations including carrying passenger, not wearing helmet, and wrong-way driving	
Illumination Distance	23 m-30m (75.46 ft–98.43 ft) (brightness adjustable)	Traffic Flow Detection	Generates statistics on vehicle flow, queue length, average speed, lane occupancy, and more	
Lane Coverage	Center mount: 4 lanes Side mount: 3 lanes	Traffic Event	Motor vehicle illegal stopping on the roadway; traffic congestion	
Lens		Video		
Lens Type	Motorized Vari-focal	Video Compression	H.265; H.264M; H.264H; MJPEG	
Focal Length	16 mm-40mm	Video Resolution	4096 (H) × 2336 (V)	
Max. Aperture	F1.5		50 Hz: Maximum 50 fps; default main stream (4096 ×	
Iris Type	P-Iris	Video Frame Rate	2336@25 fps), sub stream (1600 × 1200@25 fps) 60 Hz: Maximum 30 fps; default main stream (4096	
Field of View	Horizontal: : 22.3°–53.0° Vertical: 13.8°–32.3° Diagonal: 26.0°–61.9°		×2336@15 fps), sub stream (1600 × 1200@15 fps) H.264: 32 kbps–32767 kbps	
Function	Diagonal. 20.0 OLD	Video Bit Rate	H.265: 32 kbps-32767 kbps MJPEG: 512 kbps-32767 kbps	
Trigger Mode	Video trigger/Radar trigger	Bit Rate Control	CBR/VBR	
OSD Overlay	Time; address; lane No.; plate; plate color; and more	White Balance	Auto; Night; Customized Color Temperature	
Alarm Event	Storage full; storage error; external alarm; no storage card; license plate blocklist; illegal access; network	Edge Enhancement	Yes	
	disconnection; IP conflict	HLC	Yes	
Automatic Network Replenishment (ANR)	Platform and FTP (TF card is required)	BLC	Yes	
Auto Registration	Yes	Bad Pixel Correction	Yes	
Intelligence		Gain Range	0-100	
Target Detection	Motor vehicle; motorcycle	Image		
Speed Detection Range	0 km/h-300 km/h	Composite Image	Supports combining up to 4 images into a composite image	
Face Detection	Detects the driver and front-seat passenger of motor vehicles, and motorcycle drivers; extracts face images	Image Resolution	4096 (H) × 2336 (V) (OSD black strip excluded)	
ANPR	Adopts developed algorithms to recognize license plate numbers and letters	Image Encoding Format	JPEG	
Vehicle Type Recognition	Vehicle head: SUV, Large bus, sedan, light truck, pickup, heavy truck, medium truck, van, medium bus, MPV	Image Tampering Prevention	Verifies watermarks in videos and images	
Accuracy (under		Network		
recommended installation and lighting conditions)	Vehicle tail: SUV, large bus, sedan, light truck, pickup, heavy truck, medium truck, van	Network Port	$2\times RJ\text{-}45$ Ethernet ports, 10/100/1000 M network transmission	
		SDK and API	Yes	

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Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control	
Network Protocol	IPv4/IPv6; HTTP; TCP/IP; UDP; NTP; DHCP	
Interoperability	ONVIF (Profile S/Profile G/Profile T)	
Browser	Microsoft Edge IE: IE9–IE11 Chrome: Chrome 41 and earlier Firefox: Firefox 49 and earlier For Win 10 users, run the browser as administrator	
Positioning	GPS	
Network Status Monitoring	NTP; GPS	

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Storage	1, TF card (maximum 256 GB@Class10)		
Iris Control	1, connects to DC auto iris or P-IRIS		
Focus Control	1, connects to motorized vari-focal lens		
Frequency Source Sync	1, supports synchronizing the camera with the mains electricity		
Peripheral Light	7, optocoupler signal output (can be configured as flash light or LED strobe sync output interface, frequency adjustable)		
USB	2 USB 3.0 Ports		
RS-485	2, connects to devices such as signal detector, radar, and more		
RS-232	4 (3 for radar connection, and 1 for serial port debugging)		
1/0	4, same functions as ALARM IN port		
Audio Input	1 channel (3.5mm JACK port)		
Audio Output	1 channel (3.5mm JACK port)		
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, ≤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 +158 °F)	
Operating Humidity	10%-90% (RH)	
Storage Humidity	0%-90% (RH)	
Protection	IP66, IK10	
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	

Ordering Information			
Туре	Model	Description	
AI Enforcement Camera	DHI-ITC952-AU3F- IRL8ZF1640	9MP all-in-one Al enforcement camera	
	8019	3-dimensional universal mounting bracket (purchase separately)	
Accessories (Optional)	3012	Side mounting bracket (purchase separately)	
	PFA150	Mounting bracket (purchase separately)	

Accessories

Optional:



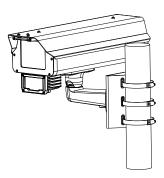
8019 3-dimensional universal mounting bracket (purchase separately)

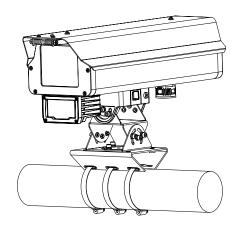


3012 Side mounting bracket (purchase separately)



Mounting bracket (purchase separately)





Dimensions (mm [inch])



