

DHI-ITC952-AU3F-LZF1640

Dahua 9MP All-in-One Enforcement Camera



System Overview

With its high-performance AI processor, 9MP All-in-one AI Enforcement Camera delivers high quality images even in the toughest weather conditions. For monitoring, it uses deep learning algorithms and GS-CMOS image sensors with a wide dynamic range and a high frame rate, making it ideal for traffic scenarios. With its advanced image technology, the white light supplements light at night to allow the camera to take vivid, full color images without using the external flashing light or strobe.

Functions

Reduced Light Pollution

The 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.

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Technical Specification		Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, dark orange, purple, brown, and silver gray
Camera			Vehicle head mode: Acura, Alfaromeo, Ashokleyland,
Image Sensor	1.1" GS-CMOS		Venicle nead infode: Actina, Anatometo, Astioneyianto, Astonmartin, Audi, Baic, Bently, Benz, BMW, Buick, BYD, Cadillac, Chery, Chevrolet, Chrysler, Citroen, Dac 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, S Skoda, Smart, Subaru, Suzuki, Tata, Tesla, Toyota, UD, Volkswagen, Volvo
Shutter Mode	Single shutter; Double shutters; Three shutters	Vehicle Brand/Logo Recognition Daiha Foton Infinit Land, Mazdi Peuge Skoda	
Electronic Shutter Speed	Auto/Manual 1/50 s–1/100,000 s		
Noise Reduction	3D NR		
S/N Ratio	48 dB		
WDR	120 dB	Motor Vehicle Violation crossing the solid while Capture driving, smoking while E-Police mode: Runnin crossing the solid white	ANPR mode: Wrong-way driving, speeding, driving slc crossing the solid white line, crossing the solid yellow line illegal lane change, unfasten seat belt, calling whi
Min. Illumination	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 common IR cut-off filter at night		driving, smoking while driving E-Police mode: Running a red light, wrong-way drivin crossing the solid white line, crossing the solid yellow line, disobeving the direction arrow, illegal left turn,
Illuminator			illegal right turn, illegal U-turn (not supported by side mounted cameras), and crossing the stop line
Illuminator Number	6	Motorcycle Violation	Captures traffic violations including carrying passenge
Illumination Distance	23 m-30 m (75.46 ft–98.43 ft) (brightness adjustable)	Capture	not wearing helmet, and wrong-way driving
Lane Coverage	Center mount: 4 lanes Side mount: 3 lanes	Traffic Flow Detection	Generates statistics on vehicle flow, queue length, average speed, lane occupancy, and more
Lens		Traffic Event	Motor vehicle illegal stopping on the roadway; traffic congestion
Lens Type	Motorized Vari-focal	Video	
Focal Length	16 mm-40mm	Video Compression	H.264H; H.265; MJPEG; H.264M
Max. Aperture	F1.4	Video Resolution	4096 (H) × 2336 (V)
Iris Type Field of View	P-Iris Horizontal: : 22.3°–53.0° Vertical: 13.8°–32.3°	Video Frame Rate	50 Hz: Maximum 50 fps; default main stream (4096 x 2336@25 fps), sub stream (1600 × 1200@25 fps) 60 Hz: Maximum 30 fps; default main stream (4096 x 2326@15 fps)
Function		Video Bit Rate	2336@15 fps), sub stream (1600 × 1200@15 fps) H.264: 32 kbps–32767 kbps 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
Automatic Network	disconnection; IP conflict	HLC	Yes
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	Numbers and letters Vehicle head: SUV, Large bus, sedan, light truck, pickup, heavy truck, medium truck, van, medium bus, MPV Vehicle tail: SUV, large bus, sedan, light truck, pickup, heavy truck, medium truck, van	Image Tampering Prevention	Verifies watermarks in videos and images
venicle type kecognition		Network	
Accuracy (under recommended installation	Capture rate > 99%;	Network Port	2 × RJ-45 Ethernet ports, 10/100/1000 M network transmission
and lighting conditions)	LPR accuracy > 98%	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			
Port				
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)			
I/O	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 \pm 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 +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- LZF1640	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)

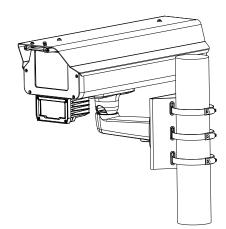


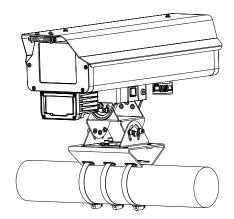
3012

Side mounting bracket (purchase separately)



PFA150 Mounting bracket (purchase separately)





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Dimensions (mm [inch])





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