

DHI-ITC952-AU3F-IRL7ZF1640

Dahua 9MP All-in-One Enforcement Camera



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	1.1" GS-CMOS
Pixel	9 MP
Shutter Mode	Single shutter; Double shutters; Three shutters
Electronic Shutter Speed	Auto/Manual 1/50 s–1/100,000 s
Noise Reduction	3D NR
S/N Ratio	>48 dB
WDR	120 dB
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.

Illuminator

Illuminator Number	8 (LED light)
Illuminator Brightness Adjustment	Adjustable brightness

- 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.

IR Light	Yes
Illumination Distance	23 m–30 m (75.46 ft–98.43 ft)
Lane Coverage	1–3 lanes
Lens	
Lens Type	Motorized vari-focal
Focal Length	16 mm–40 mm
Max. Aperture	F1.5
Iris Type	P-Iris
Field of View	H: 53°–22°; V: 32°–14°; D: 62°–26°
Exposure Mode	Auto; Manual (Select from shutter values or customize shutter range)

Function

Trigger Mode	Video trigger/Radar trigger
OSD Overlay	Time; address; lane No.; plate; plate color; and more
Alarm Event	Storage full; storage error; external alarm; no storage card; license plate blacklist; illegal access; network disconnection; IP conflict
Automatic Network Replenishment (ANR)	Platform and FTP (TF card is required)
Auto Registration	Yes
Storage	FTP, TF card (maximum 256 GB@Class10)

Intelligence

Target Detection	Motor vehicle; motorcycle
ANPR	Adopts developed algorithms to recognize license plate numbers and letters
Vehicle Type Recognition	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
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, dark orange, purple, brown, and silver gray (color recognition is not supported during nighttime)

Vehicle Brand/Logo Recognition	Acura, Alfaromeo, Ashokleyland, Astonmartin, Audi, Baic, Bently, Benz, Bmw, Buick, Byd, Cadillac, Chery_Old, Chery, Chevrolet, Chevrolet1, Chrysler, Citroen, Dacia, Daihatsu, Datsun, Dodge_Ram, Dodge, Ds, Ferrari, Fiat, Fiat_Old, Force, Ford, Ford_Ford, Ford_Mustang, Foton, Geely, Gmc, Greatwall, Greatwall_Old, Hino, Honda, Hyundai, Infiniti, Infiniti_Esq, Isuzu, Isuzu, Iveco, Iveco_Naveco, Jac, Jac_Jac, Jaguar, Jeep, Kia, Kinglong, Land_Discovery, Land_Range-Rover, Land_Rover, Lexus, Lifan, Lincoln, Mahindra, Man, Maserati, Mazda, Mercury, Mg, Mini, Mitsubishi, Nissan, Opel, Peugeot, Porsche, Renault, Rollsroyce, Saab, Scania, Seat, Skoda, Smart, Subaru, Suzuki, Suzuki, Tata, Tesla, Toyota, Toyota_Toyota, Toyota_Alpha, Toyota_Crowm, Toyoya_Vizi, Ud, Volkswagen, Volvo
Motor Vehicle Violation Capture	ANPR mode: Wrong-way driving, speeding, driving slow, crossing the solid white line, crossing the solid yellow line, illegal lane change, unfasten seat belt, calling while driving, smoking while driving E-Police mode: Running a red light, wrong-way driving, crossing the solid white line, crossing the solid yellow line, disobeying the direction arrow, illegal left turn, illegal right turn, illegal U-turn (not supported by side-mounted cameras), and crossing the stop line
Motorcycle Violation Capture	Captures traffic violations including carrying passenger, not wearing helmet, and wrong-way driving
Traffic Flow Detection	Statistics of vehicle flow, average speed, vehicle type, lane occupancy, average time headway, average queue length, and road status
Traffic Event	Motor vehicle illegal stopping on the roadway; traffic congestion

Video

Video Compression	H.265;H.264M;H.264H;MJPEG
Video Resolution	4096 (H) × 2336 (V)
Video Frame Rate	50 Hz: Maximum 50 fps; default main stream (4096 × 2336@25 fps), sub stream (1600 × 1200@25 fps) 60 Hz: Maximum 30 fps; default main stream (4096 × 2336@25 fps), sub stream (1600 × 1200@25 fps)
Video Bit Rate	H.264: 32 kbps–32767 kbps H.265: 32 kbps–32767 kbps MJPEG: 512 kbps–32767 kbps
Bit Rate Control	CBR/VBR
White Balance	Auto;Manual;Outdoor;Natural;Street Lamp;Area white balance
Edge Enhancement	Yes
HLC	Yes
BLC	Yes
Bad Pixel Correction	Yes
Gain Range	0-100

Image

Composite Image	Supports combining up to 3 source images, and 1 close-up image into a composite image.
Image Resolution	4096 (H) × 2336 (V) (OSD black strip excluded)
Image Encoding Format	JPEG
Image Tampering Prevention	Verifies watermarks in videos and images

Network

Network Port	1 × RJ-45 Ethernet port, 10/100/1000 M network transmission
SDK and API	Yes
Security Mode	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
Timing	NTP; GPS

Port

Storage	1, supports maximum 256 GB TF card local storage
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 × RJ-45 Ethernet ports, 10/100/1000 M network transmission
RS-232	2, con is used for serial debugging and R T G is for connecting to radars
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 ± 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 +65 °C (–40 °F to +149 °F)
Operating Humidity	10%–90% (RH), non-condensing
Storage Humidity	0%–90% (RH), non-condensing
Protection	IP67;IK10
Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.

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Certifications	CE: E234884-A6104-IT-4; 4790433450-2 FCC: 4790433450-1
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

Type	Model	Description
All-in-One Enforcement Camera	DHI-ITC952-AU3F-IRL7ZF1640	Dahua 9MP All-in-One Enforcement Camera
Accessories (Optional)	8019	Cardan bracket
	DH-PFA150	Pole Mount Bracket
	DH-PFA150	Pole Mount Bracket
	3012	Wall Mount Bracket

Accessories

Optional:



8019
Cardan bracket



DH-PFA150
Pole Mount Bracket



3012
Wall Mount Bracket

Dimensions (mm[inch])

