

EN-ITC852

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.

	on		Vehicle head mode: Acura, Alfaromeo, Ashokleyland,
Technical Specification Camera			Astonmartin, Audi, Baic, Bently, Benz, BMW, Buick, BYD, Cadillac, Chery, Chevrolet, Chrysler, Citroen, Dacia,
Image Sensor	1.1" GS-CMOS	Daihatsu, Datsun, Dodge, DS, Ferrari, Fiat, Force, Ford, Vehicle Brand/Logo Foton, Geely, GMC, Greatwall, Hino, Honda, Hyundai,	
Shutter Mode	Single shutter; Double shutters; Three shutters	Recognition	Recognition Land, Lexus, Lifan, Lincoln, Mahindra, MAN, Maserati,
	Auto/Manual 1/50 s–1/100,000 s	Mazda, Mercury, MG, Mini, Mitsubishi, Nissan, Opel, Peugeot, Porsche, Renault, Rollsroyce, Saab, Scania, Se Skoda, Smart, Subaru, Suzuki, Tata, Tesla, Toyota, UD, Volkswagen, Volvo	Peugeot, Porsche, Renault, Rollsroyce, Saab, Scania, Seat,
Electronic Shutter Speed			
Noise Reduction	3D NR 48 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 driving, smoking while driving	- ,
S/N Ratio WDR	120 dB		
Min. Illumination	0.001 lux	Motorcycle Violation Capture	Captures traffic violations including carrying passenger, not wearing helmet, and wrong-way driving
Day/Night	ICR auto switch: Use the IR transmitting filter during the daytime and nighttime.	Traffic Flow Detection	Generates statistics on vehicle flow, queue length, average speed, lane occupancy, and more
Illuminator		Traffic Event	Motor vehicle illegal stopping on the roadway; traffic
Illuminator Number	8	\ r. 1	congestion
IR Light	Yes	Video	
Illumination Distance	23 m-30m (75.46 ft–98.43 ft) (brightness adjustable)	Video Compression	H.265; H.264M; H.264H; MJPEG
	Center mount: 4 lanes	Video Resolution	4096 (H) × 2336 (V)
Lane Coverage Lens	Side mount: 3 lanes	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@15 fps), sub stream (1600 × 1200@15 fps)
Lens Type	Motorized Vari-focal		H.264: 32 kbps–32767 kbps
Focal Length	16 mm-40mm	Video Bit Rate	H.265: 32 kbps–32767 kbps MJPEG: 512 kbps–32767 kbps
Max. Aperture	F1.4	Bit Rate Control	CBR/VBR
Iris Type	P-Iris	White Balance	Auto; Night; Customized Color Temperature
Field of View	Horizontal: : 22.3°–53.0° Vertical: 13.8°–32.3° Diagonal: 26.0°–61.9°	Edge Enhancement	Yes
Function		HLC	Yes
Trigger Mode	Video trigger/Radar trigger	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	Gain Range	0-100
	disconnection; IP conflict	Image	
Automatic Network Replenishment (ANR)	Platform and FTP (TF card is required)	Composite Image	Supports combining up to 4 images into a composite image
Auto Registration	Yes	Image Resolution	4096 (H) × 2336 (V) (OSD black strip excluded)
Intelligence		Image Encoding Format	JPEG
Target Detection	Motor vehicle; motorcycle	Image Tampering Prevention	Verifies watermarks in videos and images
Speed Detection Range	0 km/h-300 km/h	Network	
Face Detection	Detects the driver and front-seat passenger of motor vehicles, and motorcycle drivers; extracts face images	Network Port	$2\times RJ\text{-}45$ Ethernet ports, 10/100/1000 M network transmission
ANPR	Adopts developed algorithms to recognize license plate numbers and letters	SDK and API	Yes
Vehicle Type Recognition	Vehicle head: SUV, Large bus, sedan, light truck, pickup, heavy truck, medium truck, van, medium bus, MPV	Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
Accuracy (under	Capture rate > 99%;	Network Protocol	IPv4/IPv6; HTTP; TCP/IP; UDP; NTP; DHCP
recommended installation and lighting conditions)	LPR accuracy > 98%	Interoperability	ONVIF (Profile S/Profile G/Profile T)

All-in-One Enforcement Camera | EN-ITC852

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 $1\mathrm{for}$ 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 ± 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)	
Certifications	CE:E234884-A6104-IT-5;4790795807-2-1	
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		
Al Enforcement Camera	EN-ITC852	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:



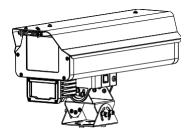
8019 3-dimensional universal mounting bracket (purchase separately)

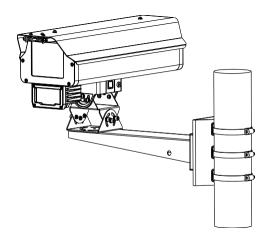


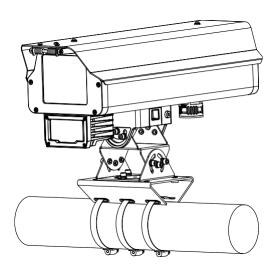
3012 Side mounting bracket (purchase separately)



PFA150 Mounting bracket (purchase separately)







Dimensions (mm [inch])

