

DHI-ITC1652-AU5F-IRL7ZF1640

Dahua 16MP All-in-One Enforcement Camera



System Overview

With its high-performance AI processor, 16MP 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.
- 5320 × 3032@30 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 Specificati	on		Accuracy	
Camera			(under recommended installation and lighting	
Image Sensor	1.1" GS-CMOS	conditions)		
utter Mode	Single shutter; Double shutters; Three shutters	Vehicle Color Recogn	nition	
Electronic Shutter Speed	Auto/Manual 1/50 s-1/100,000 s			
Noise Reduction	3D NR			
S/N Ratio	48 dB	Vehicle Brand/Logo		
WDR	120 dB	Recognition		
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	Motor Vehicle Violation		
IR Light	Yes	Capture		
Illumination Distance	23 m-30m (75.46 ft–98.43 ft) (brightness adjustable)			
Lane Coverage	Center mount: 5 lanes Side mount: 4 lanes	Motorcycle Violation		
Lens		Capture Traffic Flow Detection		
Lens Type	Motorized Vari-focal	name now Detection		
Focal Length	16 mm-40 mm	Traffic Event		
Max. Aperture	F1.4	Video		
Iris Type	P-Iris	Video Compression		
Field of View	Horizontal: 21.4°–50.6° Vertical: 12.3°–28.9°	Video Resolution		
Function	Diagonal: 24.4°–58°	Video Franco Data		
Function	Video trigger/Dodor trigger	Video Frame Rate		
Trigger Mode	Video trigger/Radar trigger 0 km/h–300 km/h	Video Dit Pato		
Speed Detection Range		VIUEU DIL NALE	Video Bit Rate H.265: 32 kbps—32767 kbps MJPEG: 512 kbps—32767 kbps	
OSD Overlay	Time; address; lane No.; plate; plate color; and more Storage full; storage error; external alarm; no storage	Bit Rate Control	Bit Rate Control CBR/VBR	
Alarm Event	card; license plate blocklist; illegal access; network disconnection; IP conflict	White Balance		
Automatic Network	Platform and FTP (TF card is required)	Edge Enhancement		
Replenishment (ANR)		HLC		
Auto Registration Yes		BLC		
Intelligence		Bad Pixel Correction		
Target Detection	Motor vehicle; motorcycle	Gain Range		
Face Detection	Detects the driver and front-seat passenger of motor vehicles, and motorcycle drivers; extracts face images	Image		
ANPR	Adopts developed algorithms to recognize license plate numbers and letters	Composite Image		
	Vehicle head: SUV, Large bus, sedan, light truck, pickup,	Image Resolution		
Vehicle Type Recognition	heavy truck, medium truck, van, medium bus, MPV Vehicle tail: SUV, large bus, sedan, light truck, pickup, heavy truck, medium truck, van	Image Encoding Format		

All-in-One Enforcement Camera | DHI-ITC1652-AU5F-IRL7ZF1640

Image Tampering Prevention	Verifies watermarks in videos and images		
Network			
Network Port	$2\times \text{RJ-}45$ Ethernet ports, 10/100/1000 M network transmission		
SDK and API	Yes		
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)		
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)		
Certifications	CE: E234884-A6104-IT-4; 4790433450-2 FCC: 4790433450-1		

Protection	IP66, IK10	
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)	
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-ITC1652-AU5F- IRL7ZF1640	16MP 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:



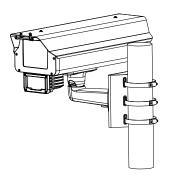
3-dimensional universal mounting bracket (purchase separately)

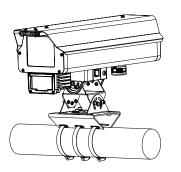


3012 Side mounting bracket (purchase separately)



Mounting bracket (purchase separately)





Dimensions (mm [inch])

