

DHI-ITC952-AU3F-IRL8ZF1640

Dahua 9MP All-in-One Enforcement Camera



- · 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.

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.

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.

Part	Technical Specification				
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Since Sinc	Image Sensor	1.1" GS-CMOS	Vehicle Brand/Logo Recognition Foton, Geely, GMC, Greatwall, Hino, Honda, Hyt Infiniti, Isuzu, Iveco, Jac, Jaguar, Jeep, Kia, Kingle Land, Lexus, Lifan, Lincoln, Mahindra, MAN, Ma Mazda, Mercury, MG, Mini, Mitsubishi, Nissan, Peugeot, Porsche, Renault, Rollsroyce, Saab, Sca Skoda, Smart, Subaru, Suzuki, Tata, Tesla, Toyot	Foton, Geely, GMC, Greatwall, Hino, Honda, Hyundai,	
	Shutter Mode	Single shutter; Double shutters; Three shutters			
Note Reduction 30 MR S/N Ratio 48 ref VOR 220 88 Mon. Illumination 0.000 lux Day/Night ICR auto switch Uses IR out-off free (IRCF) with polarater in the Ceytine, and use ordinary fiber at neight. Montroycle Violation Capture Capture claims are all left, wron, way driving, sonlike, whele deviction arrow, line if left to run, included claims are all left, wron, way driving, sonlike, whele deviction arrow, line if left to run, including carrying passenger, capture in the Ceytine, and uses ordinary fiber at neight. Motorcycle Violation Capture Captures traffic violations including carrying passenger, capture in the Ceytine, and uses only the first to run. In the Ceytine, and uses only the state in line. It light 76 Amount of Violation Capture. Captures traffic violations including carrying passenger, capture in left to run. In the Ceytine, and uses only the first only the state in line. Lane Coverage 20 months of Violation Capture. Capture in Info Violation Capture. Cap	Electronic Shutter Speed	Auto/Manual 1/50 s-1/100,000 s		Skoda, Smart, Subaru, Suzuki, Tata, Tesla, Toyota, UD,	
SN Nation 48 GB WOR 10 or 68 Motor Vehicle Violation Capture consist the white sold line, crossing the yellow sold fill in the plant of th	Noise Reduction	3D NR			
WDR 120 dB Motor Vehicle Violation Capture divining making with editing my withing part light, wrong way driving, crowing the solid white line, crowing the colid yellow should be a fire of prime, and uses ordinary filter at rail. Motor Vehicle Violation Capture Explore mote from timing a real light, wrong way driving, crowing the solid white line, crowing the colid yellow should be a fire of particles. Explore mote from timing a real light, wrong way driving, crowing the solid white line, crowing the colid yellow should be a fire of particles. Explore mote from timing a real light, wrong way driving, crowing the solid white line, crowing the colid yellow should be a fire of particles. Traffic Flow Detection Capture eartifly woldshow does mounted cameras, and crossing the tool line with life and in the life and in the life and in the life and in the life. Traffic Flow Detection Capture eartifly woldshow does mounted cameras, and crossing the tool line. Traffic Flow Detection Capture eartifly woldshow does mounted cameras, and crossing the tool line. Traffic Flow Detection Capture eartifly woldshow does mounted cameras, and crossing the tool line. Traffic Flow Detection Capture eartifly woldshow does mounted cameras, and crossing the tool line. Traffic Flow Detection Capture eartifly woldshow does mounted cameras, and crossing the tool line. Traffic Flow Detection Capture eartifly woldshow does mounted flow in the particle of the particle in the capture of the particle in the partic	S/N Ratio	48 dB	Motor Vehicle Violation Capture Ci lii iil	crossing the white solid line, crossing the yellow solid 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-	
Min. Illumination	WDR	120 dB			
DeyMiple	Min. Illumination	0.001 lux			
Intumination Number R Religible Taffic Flow Detection Cemerates stratutor on which flow, queue length, were greated, large cooperage Taffic Flow Detection Cemerates stratutor on which flow, queue length, were greated street cooperage, and more with flow procession Taffic Event Cooperage (Center mount-14 lanes Sufe mount-15 lanes Sufe mount-15 lanes Sufe mount-15 lanes Sufe mount-15 lanes Video Compression H.265; H.264M, H.264H; MBPEG	Day/Night	. , , .			
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Rit Light Yes Montor vehicle lilegal stopping on the roadway; traffic Event Congesion Center mount. 4 lanes Video Video Video Razos, Hazos, Hazos	Illuminator Number	8	Traffic Flow Detection		
Same Store Center mount: 4 lanes Size mount: 3 lanes Size	IR Light	Yes	Traffic Event		
Lens Lens Type Motorized Vari-focal Video Compression H.265; H.264M; H.264H; MIPEG Lens Type Motorized Vari-focal Video Resolution 4096 (H) × 2336 (V) Focal Length 16 mm-40mm Video Frame Rate Solition 2336@25 (ps); sub stream (1600 x 1200@25 (ps)) Max. Aperture F.1.4 Video Frame Rate Solition 2336@25 (ps); sub stream (1600 x 1200@25 (ps)) Max. Aperture F.1.4 L.266.3 22 kbps-32767 kbps Horizontals: 22.37-53.0" Video Bit Rate H.266.3 22 kbps-32767 kbps MIPEG: 512 kbps-32767 kb	Illumination Distance	23 m-30m (75.46 ft–98.43 ft) (brightness adjustable)	Traffic Event	congestion	
Lens Type Motorized Vari focal Video Resolution 4096 (H) × 2336 (V) Focal Length 16 mm-40mm 16 mm-40mm 17 mm 17 mm 18 m	Lane Coverage		Video		
Focal Length 16 mm-40mm	Lens		Video Compression	H.265; H.264M; H.264H; MJPEG	
Max. Aperture F1.4 F1.4 F1.4 F1.4 F1.4 F1.4 F1.4 F1.4	Lens Type	Motorized Vari-focal	Video Resolution	4096 (H) × 2336 (V)	
Max. Aperture FI.4 Wideo Frame Rate Systage 15 [Fi.4] Wideo Frame Rate Systage 15 [Fi.4] Wideo Bit Rate Wideo Graphs Wife: 512 kbps-32767 kbps Wife: 5	Focal Length	16 mm-40mm	V61 5 8	2336@25 fps), sub stream (1600 × 1200@25 fps) 60 Hz: Maximum 30 fps; default main stream (4096	
Horizontal: 22.3"–53.0" Vertical: 13.8"–32.3" Diagonal: 26.0"–61.9" Function Function Trigger Mode Video trigger/Radar trigger OSD Overlay Time; address; lane No.; plate; plate color; and more Alarm Event Automatic Network Replenishment (ANR) Platform and FTP (TF card is required) Auto Registration Ves Intelligence Target Detection Motor vehicle; motorcycle Auphra Adopts developed algorithms to recognize license plate unwhers and letters Average Detection Autor, Night; Customized Color Temperature White Balance Auto, Night; Customized Color Temperature Auto, Night; Customized Color Temperature Edge Enhancement Yes HLC Yes BaLC Yes Bad Pixel Correction Yes Gain Range 0-100 Image Intelligence Image Image Composite Image Supports combining up to 4 images into a composite image image Image Resolution 4096 (H) × 2336 (V) (OSD black strip excluded) Image Encoding Format Image Encoding Format Image Encoding Format PEG Image Tampering Prevention Verifies watermarks in videos and images Network Vehicle Type Recognition Vehicle had; SUV, targe bus, sedan, light truck, pickup, heavy truck, medium truck, van, medium bus, MPV Vehicle Color Recognition White, pink, black, red, yellow, gray, blue, green, dark orange, purple, brown, and silver gray (color recognition is not supported during the riighttime) Vehicle Color Recognition White, pink, black, red, yellow, gray, blue, green, dark orange, purple, brown, and silver gray (color recognition is not supported during the riighttime) Vehicle Color Recognition Wide Bit Rate Control White Balance Auto, Night; Customized Color Temperature Auto, Night; Customized Color Temperature Auto, Night; Customized Color Temperature Edge Enhancement Yes BLC Yes Composite Image Supports combining up to 4 images into a composite image Image Tempering Prevention Network Verifies watermarks in videos and images Network Port Transmission	Max. Aperture	F1.4	Video Frame Rate		
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Intelligence Composite Image Supports combining up to 4 images into a composite image Image Personance Target Detection Motor vehicle; motorcycle Speed Detection Range O km/h–300 km/h Detects the driver and front-seat passenger of motor vehicles, and motorcycle drivers; extracts face images ANPR Adopts developed algorithms to recognize license plate numbers and letters Vehicle Type Recognition Vehicle Equation White, pink, black, red, yellow, gray, blue, green, dark orange, purple, brown, and silver gray (color recognition is not supported during the nighttime) Image Resolution 4096 (H) × 2336 (V) (OSD black strip excluded) Image Encoding Format JPEG Image Tampering Prevention Network Network Network Network Spk and API Yes Security Authorized username and password, MAC address			Gain Range	0-100	
Target Detection Motor vehicle; motorcycle Image Resolution 4096 (H) × 2336 (V) (OSD black strip excluded) Speed Detection Range	Auto Registration Yes		Image	Image	
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Vehicle Color Recognition orange, purple, brown, and silver gray (color recognition is not supported during the nighttime) Security Authorized username and password, MAC address	Vehicle Type Recognition		Network Port		
is not supported during the nighttime) Security Authorized username and password, MAC address	Vehicle Color Recognition	orange, purple, brown, and silver gray (color recognition	SDK and API	Yes	
			Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control	

All-in-One Enforcement Camera | DHI-ITC952-AU3F-IRL8ZF1640

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	 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 LVD: EN62368-1; IEC 60950-22; IEC62471 CE EMC: EN55032; EN55035; IEC61000-3-2; IEC61000- 3-3	
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 AI 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:



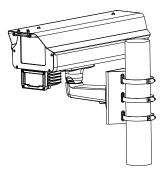
8019 3-dimensional universal mounting bracket (purchase separately)

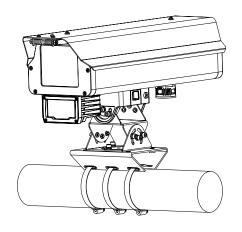


3012 Side mounting bracket (purchase separately)



Mounting bracket (purchase separately)





Dimensions (mm [inch])



