

DHI-ITC952-SU2F-GQE-C2R1-IRL8ZF1640-PK

Dahua 9MP Radar Video Camera



System Overview

With its high-performance AI processor, 9MP All-in-one IR AI Traffic 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. The IR illuminators supplement light when the camera captures license plates (Front/Rear) without using the external flashing light or strobe, significantly reducing light pollution. A radar is also built into the device, allowing it to measure vehicle speed and sense data from a wide range of perspectives. For network transmission, the device only requires a single 4G card, eliminating the need for network cables.

Functions

Wireless 4G

The camera works with just a 4G card, eliminating the need for network cables. It is powered by its embedded high-performance 4G mobile network module, which also allows the camera to be added to the platform for remote control through auto registration, where it can then be used to transmit traffic violation data and ANPR data to the platform.

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. This makes it ideal for traffic scenarios.

- GS-CMOS image sensor.
- 4096 × 2336@70 fps.
- Video compression standards: H.265, H.264M, H.264H and MJPEG.
- Works in poor lighting and does not smear.
- High-speed capture.
- · A camera, illuminator, radar and more combined in one.
- IP68.
- 850 nm IR illumination
- 4G mobile network module.
- Under recommended installation and lighting conditions:
- Capture rate >99%
- LPR accuracy >98%.

Video Metadata

Deep learning algorithms and a high-performance AI processor allow the camera to detect and extract metadata on motor vehicles and nonmotor 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

GPS positioning is supported, and used in time synchronization. A radar is also built into the device, allowing it to measure vehicle speed and sense data from a wide range of perspectives.

Safe and Reliable Performance

Built to withstand the toughest conditions, this camera functions in a wide temperature and voltage range. It is designed with an IP68 case, which protects the camera and its internal components, such as the radar and illuminators, from receiving damage. 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.

Spotter Sky | DHI-ITC952-SU2F-GQE-C2R1-IRL8ZF1640-PK

Technical Specificati	on			
Camera		Face Detection	Deteo vehic	
Image Sensor	1.1" GS-CMOS	ANPR	Adopt numb	
Shutter Mode	Single shutter; Double shutters; Three shutters		Vehic heavy	
Electronic Shutter Speed	Auto/Manual 1/50 s-1/100,000 s	Vehicle Type Recognition	Vehicl	
Noise Reduction	3D NR			
S/N	48 dB	Vehicle Color Recognition	White purple suppo	
WDR	120 dB	A	Suppor	
Minimum intensity	0.001 lux	Accuracy (under recommended	Capture rate > 99%; LPR accuracy > 98%;	
Day/Night	Supports ICR auto switch: IR cut-off filter (IRCF) with the polarizing filter is used during the daytime, and switches to the IR transmitting filter at night	installation and lighting conditions)		
Illuminator		Vehicle head mode: Acura Astonmartin, Audi, Baic, E BYD, Cadillac, Chery, Chev		
Illuminator Number	16		Daihatsu, Datsun, Dodge, D Foton, Geely, GMC, Greatw	
IR	850 nm	Vehicle logo	Infiniti, Isu Land, Lexu	
Illumination Distance	23 m–50 m (75.46 ft–164.04 ft) (adjustable brightness)		Mazda, Me Peugeot, P	
IR Covered lane	Center mount: 4 lanes Side mount: 3 lanes		Skoda, Sma Volkswage	
Radar			ANPR mode: Wrong-way driving, overspeed, or slow, crossing the solid white line, crossing th Box, illegal lane change, not wearing seatbelt, while driving, smoking while driving E-Police mode: Running a red light, overspeed way driving, crossing the solid white line, crossing the Yello	
Central Frequency	24.05 to 24.25 GHz			
Measurement Accuracy	±2 km/h	Motor Vehicle Violation Snapshot		
Velocity Range	5 to 300 km/h		disobeying the right turn, il	
Tracking Target	Recognizes and tracks up to 64 targets at the same time.		mounted ca	
Lens		Motorcycle vehicle Violation Capture	Captures tra not wearing	
Lens Type	Dual-lens (9MP Motorized Vari-focal + 4MP Fixed-focal)	Traffic Flow Detection	Generates s average spe	
Focal Length	9MP (16 mm–40 mm) and 4MP (3.6mm)	Traffic Event	Detects park	
Max. Aperture	F1.5 and F1.6	Video	driving, and traffic congestion	
Aperture Type	P iris	Video Compression	H.265; H.264N	
Field of View	Horizontal: : 22.3°–53.0° Horizontal: : 84°	Video Resolution	4096 (H) × 233	
Field of View	Vertical: 13.8°–32.3° Vertical: 42° Diagonal: 26.0°–61.9° Diagonal: 101°		4096 (H) × 233	
Function		Video Frame Rate	2336@12.5fps 30Hz: Maximu	
Trigger Mode	Video trigger/Radar trigger		2336@15 fps),	
OSD Overlay	Time, location, lane (number/direction), plate (number/ color), and more.	Video Bit Rate	H.264: 32 kbps- H.265: 32 kbps- MJPEG: 512 kb	
Alarm Event	Storage full; storage error; external alarm; no storage card; license plate blocklist; illegal access; network	Bit Rate Control	CBR; VBR	
Automatic Network	disconnection; IP conflict Platform, FTP (TF card is required)	White Balance	Auto/night/cu	
Replenishment (ANR)		Edge Enhancement	Yes	
4G	Yes	HLC	Yes	
Auto Registration	Yes	BLC	Yes	
Intelligence		Bad Pixel Correction	Yes	
Target Detection	Motor vehicle; motorcycle	Gain Scope	0-100	

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Image

Image				
Composite Image	Supports combining up to 4 images into a composite image			
Image Resolution	4096 (H) \times 2336 (V) (OSD black strip excluded)			
Image Encoding Format	JPEG			
Image Tampering Prevention	Watermark and verification are available for videos and images			
Network				
Network Port	1 × RJ-45 Ethernet port, 10/100/1000 M network transmission			
SDK and API	Yes			
Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control			
Protocol	IPv4; IPv6; HTTP; TCP; IP; UDP; NTP; DHCP			
Interoperability	ONVIF (Profile S/Profile G/Profile T)			
Browser	IE: IE 9–IE 11 Chrome: Chrome 41 and earlier Firefox: Firefox 49 and earlier Win10 needs to open the browser with administrator rights			
Positioning	GPS			
Time Synchronization	NTP; GPS			
Port				
Frequency Source Sync	1, supports synchronizing the camera with the mains electricity			
Peripheral Light	5, optocoupler signal output (can be configured as flashing light or LED strobe sync output port, frequency adjustable)			
RS-485	1, connects to devices such as signal detector, strobe, continuous light, and all-in-one illuminator			
Alarm Output	1 (can be configured as an alarm output port)			
Alarm In	1			
General				
Power Supply	100–240 VAC, 50 Hz/60 Hz			
Power Consumption	≤45 W			
Operating Temperature	-40 °C to +65 °C (-40 °F to +149 °F)			
Storage Temperature	-40 °C to +70 °C (-40 °F to +154 °F)			
Operating Humidity	10%-95% (RH)			
Storage Humidity	10%-95% (RH)			
Product Dimensions	435.4 mm × 416.0 mm × 173.8 mm (17.14" × 16.38" × 6.84") (L × W × H)			
Certifications	CE: SHES221102111001; KSCR2211002258; KSCR221100225701 IP68			
Net Weight	9.3 kg (20.50 lb)			
Gross Weight	14.3 kg (31.53 lb)			
0				

Ordering Information

0		
Туре	Model	Description
AI Enforcement Camera	DHI-ITC952- SU2F-GQE-C2R1- IRL8ZF1640	9MP all-in-one IR Al Traffic camera
Accessories	PFA150	Pole Mount Bracket (purchase separately)
(Optional)	3012	Wall Mount Bracket (purchase separately)

Accessories

Optional:





PFA150 Pole Mount Bracket (purchase separately)

3012 Wall Mount Bracket (purchase separately)

Installation



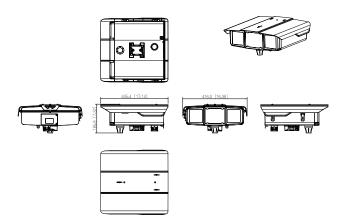








Dimensions (mm[inch])



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