

DHI-ITC952-SU2F-GQE-C2R1-IRL8ZF1640

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 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@50 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.
- IP66.
- 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 IP66 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

Technical Specification Face Detection Camera Image Sensor 1.1" GS-CMOS Image Sensor 1.1" GS-CMOS ANPR Shutter Mode Single shutter; Double shutters; Three shutters Vehicle Type Recognition Electronic Shutter Speed Auto/Manual 1/50 s-1/100,000 s Vehicle Type Recognition Noise Reduction 3D NR Vehicle Color Recognition S/N 48 dB Vehicle Color Recognition WDR 120 dB Accuracy (under recommended installation and lighting conditions) 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
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Supports ICR auto switch: IR cut-off filter (IRCF) with the polarizing filter is used during the daytime, and switches conditions)
Illuminator Astonmarti BYD, Cadilla
Illuminator Number 16 Daihatsu, D Foton, Gee Foton, Gee
IR 850 nm Vehicle logo Infiniti, Isuz Land, Lexus
Illumination Distance 23 m-50 m (75.46 ft-164.04 ft) (adjustable brightness) Mazda, Me
IR Covered lane Center mount: 4 lanes Skoda, Sma Side mount: 3 lanes Volkswager
Radar ANPR mode slow, crossi
Central Frequency 24.05 to 24.25 GHz yellow line, calling while
Measurement Accuracy ±2 km/h Motor Vehicle Violation E-Police motor
Velocity Range 5 to 300 km/h line, disobe illegal right
Tracking Target Up to 64 side-mount
Lens Motorcycle vehicle Captures tr violation Capture not wearing
Lens Type Motorized vari-focal Traffic Flow Detection Generates average spin
Focal Length 16 mm-40 mm Traffic Event Detects par
Max. Aperture F1.5 Video
Aperture Type P iris Video Compression H.265; H.26
Horizontal: : 22.3°–53.0°
Diagonal: 26.0°–61.9°
Function Video Frame Rate 50Hz: Maxi 30Hz: Maxi
Trigger Mode Video trigger/Radar trigger 2336@15 f
OSD Overlay Time, location, lane (number/direction), plate (number/ color), and more. Video Bit Rate H.265: 32 k MJPEG: 512
Alarm Event Storage full; storage error; external alarm; no storage card; license plate blocklist; illegal access; network disconnection; IP conflict Bit Rate Control CBR; VBR
Automatic Network Platform FTP (TE card is required) White Balance Auto/night,
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) × 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%-90% (RH)	
Storage Humidity	10%-90% (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 IP66: A2230003736101	
Net Weight	9.3 kg (20.50 lb)	
Gross Weight	14.3 kg (31.53 lb)	
Installation	Center mount; Side mount	

Ordering Information

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

Accessories

Optional:





PFA150 Pole Mount Bracket (purchase separately)

3012 Wall Mount Bracket (purchase separately)

Installation



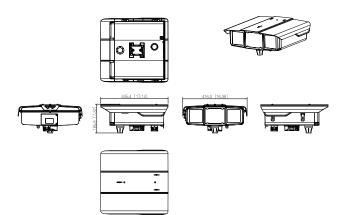








Dimensions (mm[inch])



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