

DHI-ITC952-SU2F-GQE-C2R1-LZF55-GL

Dahua 9MP Enforcement Camera



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 Specification

Basic

Image Sensor	1.1" GS-CMOS
Shutter Mode	Single shutter; Double shutters; Three shutters
Electronic Shutter Speed	50 Hz: 1/50 s–1/100,000 s (auto; manual)
Iris Control	P-Iris
Image Resolution	4096 (H) × 2336 (V) (OSD black background is not calculated in the pixels)
Pixel	9 MP
Video Resolution	(4096×2336)/QFHD (3840×2160)/1080P (1920×1080)/UXGA (1600×1200)/720P (1280×720)
Video Frame Rate	50 Hz: Maximum 50 fps; default main stream 4096×2336@12.5fps, sub stream (1600×2336@12.5fps) 60 Hz: Maximum 30 fps; default main stream (4096 × 2336@15 fps), sub stream (1600 × 1200@15 fps)
Video Bit Rate	H.264: 32 kbps–32767 kbps; H.265: 32 kbps–32767 kbps; MJPEG: 512 kbps–32767 kbps
Video Compression	H.265; H.264M; H.264H; MJPEG
Field of View	55 mm: H: 15.9°; V: 9.73°; D: 18.7°
Image Encoding Format	JPEG

- Ultra-high frame rate: Uses traffic-specific high-performance GS-CMOS image sensors with 50 fps high frame rate, high signal-to-noise ratio, and wide dynamic range, displaying realistic videos in the day and night.
- Video metadata: High-performance AI processor and deep learning algorithms allow the camera to detect and extract detailed information on motor and non-motor vehicles, providing a reliable data source that can be used for making effective decisions.
- Applicable to various road scenes: It is capable of capturing more than 10 different kinds of traffic violations, and supports traffic information collection and event detection.
- Multi-dimensional data sensing: Uses GPS for positioning and time synchronization.
- Safe and reliable: With its integrated design, it functions in a wide temperature and voltage range. It has a built-in illuminator and a radar module.
- Starlight 1" GS-CMOS image sensor for HD image of maximum 4096 × 2336@50 fps.
- Dual stream, H.265, and H.264 codec, ensure ultra-low delay, ultra-low bit rate and high compression ratio for an excellent visual experience.
- Vehicle capture, license plate recognition, and vehicle metadata extraction of 1 to 3 lanes.
- Single shutter, holographic double shutters, and three shutters.
- Recognizes motor and non-motor vehicles, license plates, and vehicle type and color. It also captures the violations of motor vehicles and non-motor vehicles, and supports metadata collection, image composition, and OSD overlay.
- Detects wrong-way driving, traffic congestion, illegal parking, and more.
- Generates statistics on vehicle flow, average speed, lane occupancy, average headway, average queue length, road status, and more.
- Supports installing a maximum 256 GB TF card for storage, and ANR of snapshots is available.

Min. Illumination	0.001 lux
WDR	120 dB
Noise Reduction	3D NR
Day/Night	Supports ICR auto switch: IR cut-off filter (IRCF) with the polarizing filter is used during the daytime, and switches to the common IR cut-off filter at night
Image Rotation	No
HLC	Yes

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Bad Pixel Correction	Yes
Edge Enhancement	Yes
Illuminator Number	16 (White light)
Illuminator Color Temperature	3500 K
Illuminator Brightness Adjustment	Yes
Illumination Distance	55 mm: 23 m–30 m (75.46 ft–98.43 ft)
Radar Transmission Frequency	24.05 GHz–24.25 GHz
Speed Measurement Range	5 km/h–300 km/h
Speed Measurement Accuracy	±2 km/h
4G Type	4G
4G Frequency Range	operating frequency band: LTE FDD: Band 1,3,5,7,8,20,28 LTE TDD: Band 38,40,41 WCDMA/HSPA+: Band 1,5,8 GSM/GPRS/EDGE: 850/900/1800MH
4G Power Transmission	4G: Power class3: 23 dBm ± 2 dB
Radar Frequency Range	24.05 GHz–24.25 GHz
Radar Power Transmission	20 dBm

Function

Composite Image	Supports composing 1, 2, 3, or 4 images
Trigger Mode	Video detection; radar
OSD Overlay	Time, address, lane No., plate, plate color, and more.
Storage	FTP, TF card (maximum 256 GB@Class10)
Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blocklist, illegal access, network disconnection, and IP conflict
Automatic Network Replenishment (ANR)	Platform and FTP (TF card is required)
Image Tampering Prevention	Yes
Positioning	GPS
Timing	GPS;NTP
Security Mode	Authorized username and password, MAC address binding, HTTPS encryption, and network access control
Auto Registration	Yes

Intelligence

ANPR	Adopts Dahua developed algorithms to recognize license plate numbers and letters
Vehicle Type Recognition	Vehicle head: SUV, Large bus, sedan, light truck, pickup, heavy truck, medium truck, van, medium bus, MPV Vehicle tail: SUV, large bus, sedan, light truck, pickup, heavy truck, medium truck, van
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, orange, purple, brown, and silver gray

Motor Vehicle Violation Capture	ANPR mode: Wrong-way driving, overspeed, driving slow, crossing the solid white line, crossing the solid yellow line, illegal lane change, not wearing seatbelt, 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-mounted cameras), and crossing the stop line
Non-motor Vehicle Violation Capture	Captures traffic violations including carrying passenger, not wearing helmet, and wrong-way driving
Traffic Flow Detection	Generates statistics on vehicle flow, queue length, average speed, lane occupancy, and more
Traffic Event	Detects parking violations of motor vehicles, wrong-way driving, and traffic congestion
Lens Mount	C

Port

Storage	1, Maximum support for 256 GB TF card local storage
Peripheral Light	5, optocoupler signal output (can be configured as flashing light or LED strobe sync output port, frequency adjustable)
Network Port	1, RJ-45 Ethernet ports, 10/100/1000 M network transmission
RS-485	1, connects to devices such as signal detector, strobe, and more
Alarm Input	1
Alarm Output	1
Power Supply	100–240 VAC, 50 Hz/60 Hz

General

Power Consumption	≤ 45 W
Operating Temperature	–40 °C to +65 °C (–40 °F to +149 °F)
Storage Temperature	–40 °C to +65 °C (–40 °F to +149 °F)
Operating Humidity	10%–90% (RH), non-condensing
Storage Humidity	10%–90% (RH), non-condensing
Protection	IP66
Product Dimensions	435.4 mm × 416.0 mm × 173.8 mm (17.14" × 16.38" × 6.84") (L × W × H)
Packaging Dimensions	557 mm × 508 mm × 288 mm (21.93" × 20" × 11.34") (L × W × H)
Net Weight	9.3 kg (20.50 lb)
Gross Weight	14.3 kg (31.53 lb)
Certifications	CE
Installation	Center mount; Side mount
Power Adapter	Included
Lens	Included
Focal Length	55 mm
Lens Type	Fixed-focal

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Anti-corrosion Level	Basic Protection *The products are designed for general use and are applicable even in areas with no specific requirements for anti-corrosion protection.
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Ordering Information

Type	Model	Description
Enforcement Camera	DHI-ITC952-SU2F-GQE-C2R1-LZF55-GL	Dahua 9MP Enforcement Camera
Accessories (Optional)	DH-PFA150	Pole Mount Bracket
	DH-PFA150	Pole Mount Bracket
	3012	Wall Mount Bracket

Accessories

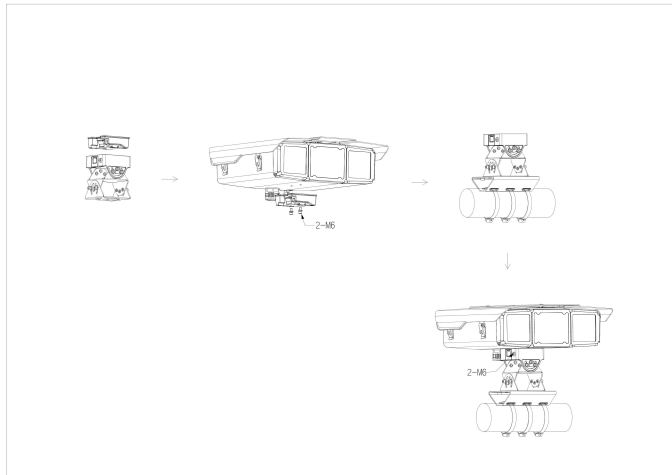
Optional:



DH-PFA150
Pole Mount Bracket



3012
Wall Mount Bracket



Dimensions (mm[inch])

