

DHI-ITC952-AU3F-LZF1640

9MP All-in-one Al Enforcement Camera



- · GS-CMOS image sensor
- · 4096×2820@50fps
- Video compression standards: H.265/H.264M/H.264H/H.264B/MJPEG
- · Integrated design, IP66

System Overview

The camera impresses people with its high-performance AI processor, traffic-specific high frame rate GS-CMOS image sensor, and deep learning algorithms. It uses sophisticated image fusion technology to display high-quality full color images at night without using external flashing light or strobe, significantly reducing light pollution. The camera is ideal for intelligent traffic management and safe city businesses with its capacities of traffic violations capturing in both ANPR and E-Police modes, passing vehicle records, traffic data collection, event detection, and more.

Functions

Reduced light pollution

It uses sophisticated image fusion technology to display high-quality full color images at night without using external flashing light or strobe, significantly reducing light pollution.

Ultra-high frame rate

Uses traffic-specific high-performance GS-CMOS image sensor with 50fps high frame rate, high signal-to-noise ratio and wide dynamic range, displaying realistic video images day and night.

Video metadata

High-performance AI processor and deep learning algorithms allow the camera to detect and extract detailed information of motor and non-motor vehicles, providing reliable data source for business decisionmaking.

Applicable to various road scenes

Ideal for use in both ANPR and E-Police modes, capable of capturing more than ten kinds of traffic violations, and supports traffic information collection and event detection, suitable for various road scenarios.

Multi-dimensional data sensing

This is realized through GPS/BeiDou positioning.

Safe and reliable performance

Integrated design, built-in lightning protection module, IP66 protection grade, and wide temperature and voltage ranges, applicable to use in all-weather conditions.

Image Sentor 1° 2° CA-CMOS Prace Detection and from-set passanger of motor vehicle and from make within their personne from image. Shutter Mode Single shutter / disuble shutters / three shutters / three shutters / White Plate Recognition (Prace Plate Indiana Shutter Speed 2909-1/100000 s (auto/manual). Papositire Mode Full adad/sustromized angle valuationated (Prace Plate Indiana Shutter Speed 2909-1/100000 s (auto/manual). Papositire Mode Full adad/sustromized angle valuationated (Prace Plate Indiana). Papositire Mode (Prace Plate Indiana). Papositire Mo	Technical Specification		Intelligence	
State Mode Single habour / double shutters / three shutters. Vehicle Plate Recognition Re	Image Processing		Target Detection	Motor vehicle, non-motor vehicle
Section Shutter Speed 1/50 = 1/30000 Servirinanual	Image Sensor	1" GS-CMOS	Face Detection	Detects driver and front-seat passenger of motor vehicle and non-motor vehicle driver; extracts face image
Exposure Mode Full anni/customized range/customized First Control Titled Institute of the property of the prop	Shutter Mode	Single shutter / double shutters / three shutters	Vehicle Plate Recognition	Recognizes license plates in Russian
Figure Face Mode Fill unto functionized registrationized First Genotrol First disriftmental bis value into First First Control First disriftmental bis value into First First Control First disriftmental bis value into First First Control First disriftmental bis value into First First Composite Image First Control First Cont	Electronic Shutter Speed	1/50 s-1/100000 s (auto/manual)		Vehicle head mode: Coach bus, minibus, SUV, MPV,
Lens	Exposure Mode	Full auto/customized range/customized	Vehicle Type Recognition	Vehicle tail mode: SUV, car, van, coach bus, pickup, cargo
Lens Lens Lens Lens Lens Lens Lens Lens	Iris Control	Fixed iris/manual iris/auto iris/P iris	Vohicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, amber,
Motor Vehicle Volation Motor Vehicle Vehicle Volation Motor Vehicle Volation Motor Vehicle Vehicle Volation Motor Vehicle Vehicle Volation Motor Vehicle Vehicle Volation Motor Vehicle Vehicle Vehicle Vehicle Vehicle	Lens	16mm-40mm	venicle color recognition	purple, brown, silver gray
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Video Frame Rate wiskinstruit 1506s, hall sixterin (1005s) 220/gd (105), 300 steam of steam and	Video Resolution		Snapshot	video speed measurement
Video Bit Rate H.255: 2926pps_27268bbps MPG65125kbps = 27268bbps MP	Video Frame Rate		white solid line, cross yellow solid line, disobey lane direction sign, disobey direction arrow, illegal left turn, illegal right turn, illegal U-turn (not supported by side-installation camera), cross stop line, not yield to pedestrians going straight when turning	
Non-motor Vehicle Non-	Video Bit Rate	H.265: 32kbps-32768kbps		
Picture Encoding Format JPEG	Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG		only detect violations of running a red light and
Noi-motor Venicle Violation Snapshot Noise Reduction Inc Rauto switch-IR cut-off filter (IRCF) with polarizing filter is used during daytime, and it changes to common IRCF during nightime HLC (Highlight Compensation) Yes Bad Pixel Correction Yes Bad Pixel Correction Yes Bad Pixel Correction Yes Illuminator Number Adjustable) Functions Trigger Mode Video detection/radar/coil Time, location (video channel location), lane (number, direction), and plate number Storage FTP, TE card (maximum 25668@class10) Alarm Event Sologae full, storage error, external alarm, no storage card, license plate balkelisk, abnormal device attitude, lillegal access, network disconnection, and IP conflict Automatic Network Replenishment (ANR) Patform, FTP GPS OPS Storage Auton/fixe/PSRelDou Authorized username and password, MAC address binding, HTTPS encryption, and network access control Automatic Network Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding and the password an	Picture Encoding Format	JPEG		Mode of yielding to pedestrians: Supports capturing
White Balance Auto/home/office/night/custom color temperature Noise Reduction 2DNR/3DNR ICR autos switch IR cut-off filter (IRCF) with polarizing filter is used during daytime, and it changes to common IRCF during nighttime HLC (Highlight compensation) Ves Bad Pixel Correction Bad Pixel Correction Yes Illuminator Number 3Illuminators (white light LED strobe, brightness adjustable) Functions Functions Functions Functions Composite Image Supports composing 1, 2, 3, or 4 pictures Composite Image Supports composing 1, 2, 3, or 4 pictures Tiringger Mode Video detection/radar/coil Tirre, Ibeation (video channel location), lane (number, direction), and pieto number Storage FTP, TF card (maximum 2566B@Class10) Alarm Event Storage fill, storage error, external alarm, no storage fill regel excess, network disconnection, and iP conflict Automatic Network Automatic Network Personation (Automatic Network) Frequency Positioning Function FYes, Watermark and verification are available for videos and pictures Positioning Function Automatic Network Image Tampering Yes, Watermark and verification are available for videos and pictures Positioning Function Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address	WDR	64dB	Non-motor Vehicle	Captures traffic violations including carrying passenger,
Notes Reduction CR auto switch: IR cut-off filter (IRCF) with polarizing filter is used during daytime, and it changes to common IRCF during nighttime Traffic Event Detection Detects illegal parking and wrong-way driving of motor vehicle: Users plate; vehicle type, vehicle type, vehicle coor, license plate color, vehicle logo, and more vehicle: Users plate color, vehicle logo, and more vehicles and traffic congestion Traffic Event Detection Promotor vehicle: Users plate, vehicle type, vehicle coor, license plate color, vehicle logo, and more vehicles. Type (two-wheelers, three-wheelers), carrying passenger or not, wearing a helmet or not, and color	White Balance	Auto/home/office/night/custom color temperature	Violation Snapshot	
Day/Night filter is used during daytime, and it changes to common liRCF during nighttime HLC (Highlight Compensation) Pes Bad Pixel Correction Yes Bad Pixel Correction Yes Illuminator Number 3 illuminators (white light LED strobe, brightness adjustable) Functions Functions Composite Image Supports composing 1, 2, 3, or 4 pictures Trigger Mode Video detection/radar/coil Frequency Source Sync direction, and plate number Storage FTP, TF card (maximum 256GB@Class10) FTP, TF card (maximum 256GB@Class10) Automatic Network Replenishment (ANR) Platform, FTP Persumana and password, MAC address binding, HTTPS encryption, and network access control Time Synchronization NTP/GPS/BeiDou Authorized username and password, MAC address binding, HTTPS encryption, and network access control Automatic Network Security Authorized username and password, MAC address binding, HTTPS encryption, and network access control No Develop of the properties o	Noise Reduction		Traffic Flow Detection	lane occupancy, and more; statistics can be exported
Video Metadata Vide	Day/Night	filter is used during daytime, and it changes to common	Traffic Event Detection	Detects illegal parking and wrong-way driving of motor
Edge Enhancement Yes Illuminator Number 3 illuminators (white light LED strobe, brightness adjustable) Functions Functions Composite Image Supports composing 1, 2, 3, or 4 pictures Trigger Mode Video detection/radar/coil OSD Overlay Time, location (video channel location), lane (number, direction), and plate number Alarm Event Storage FTP, TF card (maximum 256G@Class10) Alarm Event Storage full, storage error, external alarm, no storage illegal access, network disconnection, and IP conflict Automatic Network Replenishment (ANR) Platform, FTP GPS 1 GPS/BeiDou Yes. Watermark and verification are available for videos and pictures Personal alarm event Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control Authorized username and password, MAC address binding, HTTPS encryption, and network access control		Yes		Non-motor vehicle: Type (two-wheelers, three- wheelers), carrying passenger or not, wearing a helmet
Edge Enhancement Yes			Video Metadata	
Lens Mount C mount	Edge Enhancement			
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Image Tampering Prevention Yes. Watermark and verification are available for videos and pictures Storage 1, supports maximum 256GB TF card local storage Positioning Function GPS/BeiDou RS-485 Time Synchronization NTP/GPS/BeiDou RS-232 Authorized username and password, MAC address binding, HTTPS encryption, and network access control NTP/GPS/BeiDou RS-232 Authorized username and password, MAC address binding, HTTPS encryption, and network access control NTO 4, capture signal input of I/O trigger, sharing with alarm				
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Time Synchronization NTP/GPS/BeiDou RS-232				2, connects to signal detector, vehicle detector, flashing
Security Authorized username and password, MAC address binding, HTTPS encryption, and network access control I/O Authorized username and password, MAC address port debugging port debugging 4, capture signal input of I/O trigger, sharing with alarm	Time Synchronization	NTP/GPS/BeiDou	no-485	light, continuous light, and more
1/O	Security		RS-232	port debugging
	Auto Registration	Yes	1/0	

Alarm Input	4, share with I/O port	
Alarm Output	2, AO1 relay output and AO2 optocoupler output, can be configured as alarm output or wiper output as needed	
Audio In	1, 3.5mm (0.14") jack	
Audio Out	1, 3.5mm (0.14") jack	
Power Output	12V DC±10% voltage output, ≤1.5A current output	

General

Power Supply	100V AC-240V AC (50Hz/60Hz)	
Power Consumption	≤20W	
Operating Temperature	-40°C to +65°C (-40°F to +149°F)	
Operating Humidity	10%–90%	
Protection Grade	IP66	
Dimensions	540.00mm×207.79mm×198.14mm (21.26"×8.18"×7.80") (L×W×H)	
Net Weight	4.6kg (10.14lb)	
Gross Weight	6.6kg (14.55lb)	
Installation	Universal joint installation	
Power Adapter	Standard	

Ordering Information				
Туре	Part Number	Description		
Al Enforcement Camera	DHI-ITC952-AU3F- LZF1640	9MP all-in-one Al enforcement camera -L: Model with 18" protective cover		
Accessories	PFA162	3-dimensional universal mounting bracket, needs to be purchased separately Brackets required = number of cameras + number of flashing lights		

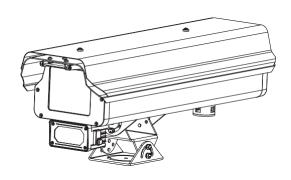
Accessories

Optional:



PFA162 3-dimensional universal mounting bracket

Installation



Dimensions (mm[inch])

