

DHI-ITC352-AU3F-LZF1640

3MP AI Enforcement Camera



- GS-CMOS image sensor.
- •2048×1536@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 flashing light or external strobe, significantly reducing light pollution. The camera is ideal for intelligent traffic management and safe city businesses with its capacities of automatic number plate recognition, passing vehicle records, traffic data collection, event detection, and more.

Functions

Dual-frame image fusion

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

Ultra-high frame rate

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

AI technology

High-performance AI processor with deep learning algorithm, capable of detecting multiple targets and suitable for a wide range of applications.

Multiple functions

Integrates functions such as traffic violations capture, vehicle data collection and event detection, ideal 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.

DHI-ITC352-AU3F-LZF1640

Technical Specification

Image Processing

Image Processing			
Image Sensor	1/1.8" GS-CMOS		
Shutter Mode	Single shutter / holographic double shutters / three shutters		
Electronic Shutter Speed	1/50 s-1/100000 s (auto/manual)		
Exposure Mode	Full auto/customized range/customized		
Iris Control	Fixed iris/manual iris/auto iris/P iris		
Lens	16mm-40mm		
Image Resolution	2048×1536 (OSD black strip excluded)		
Video Resolution	3M (2048×1536)/UXGA (1600×1200)/1080P (1920×1080)/720P (1280×720)/D1 (704×576)/CIF (352×288)		
Video Frame Rate	Maximum 50fps; main stream (1536×2048@25fps), sub stream (1600×1200@25fps)		
Video Bit Rate	H.264: 32kbps–32767kbps H.265: 32kbps–32767kbps MJPEG: 512kbps–32767kbps		
Video Compression	H.265/H.264M/H.264H/H.264B/MJPEG		
Picture Encoding Format	JPEG		
WDR	64dB		
White Balance	Auto/outdoor/manual/local white balance/natural light/ street light		
Noise Reduction	2DNR/3DNR		
Day/Night	ICR auto switch: IR cut-off filter (IRCF) with polarizing filter is used during daytime, and it changes to common IRCF during nighttime		
HLC (Highlight Compensation)	Yes		
Bad Pixel Correction	Yes		
Edge Enhancement	Yes		
Illuminator Number	3 illuminators (white light LED strobe, brightness adjustable)		
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		
Storage	FTP, TF card (maximum 256GB@Class10)		
Alarm Event	Storage full, storage error, external alarm, no storage card, license plate blacklist, abnormal device attitude, illegal access, network disconnection, and IP conflict		
Automatic Network Replenishment (ANR)	Platform, FTP		
Image Tampering Prevention	Yes. Watermark and verification are available for videos and pictures		
Positioning Function	GPS/BeiDou		
Time Synchronization	NTP/GPS/BeiDou		
Security	Authorized username and password, MAC address binding, HTTPS encryption, and network access control		
Auto Registration	Yes		

Intelligence Target Detection Motor vehicle, non-motor vehicle Detects driver and front-seat passenger of motor vehicle, Face Detection and non-motor vehicle driver; extracts face image Vehicle Plate Recognition Recognizes license plates in Russian Vehicle head mode: Coach bus, minibus, SUV, MPV, pickup, heavy truck, medium truck, car, van, light truck Vehicle Type Recognition Vehicle tail mode: SUV, car, van, coach bus, pickup, cargo truck, mini truck, tank truck, mixer truck White, pink, black, red, yellow, gray, blue, green, amber, Vehicle Color Recognition purple, brown, silver gray ANPR mode: Wrong-way driving, overspeed, Motor Vehicle Violation underspeed, disobey lane direction sign, cross white solid line, cross yellow solid line, illegal lane change, Snapshot video speed measurement Captures traffic violations including carrying passenger, Non-motor Vehicle not wearing helmet, wrong-way driving, and occupying Violation Snapshot motorway Statistics of vehicle flow, queue length, average speed, Traffic Flow Detection lane occupancy, and more; statistics can be exported in Excel Detects illegal parking and wrong-way driving of motor **Traffic Event Detection** vehicles and traffic congestion Motor vehicle: License plate, vehicle type, vehicle color, license plate color, vehicle logo, and more Video Metadata Non-motor vehicle: Type (two-wheelers, threewheelers), carrying passenger or not, wearing a helmet or not, and color Ports Lens Mount C mount Iris Control 1, connects to auto iris or P iris Focus Control 1, connects to motorized vari-focal lens 1, supports synchronizing the camera with mains Frequency Source Sync electricity 7, optocoupler signal output (can be configured as flashing light or LED strobe sync output interface, Peripheral Light frequency adjustable) 2 RJ-45 Ethernet ports, 10/100/1000M network Network transmission USB 2 USB 3.0 ports GPS 1 GPS/BeiDou port 1, supports maximum 256GB TF card local storage Storage 2, connects to signal detector, vehicle detector, flashing RS-485 light, continuous light, and more 4 RS-232 ports. 3 for radar connection, and 1 for serial RS-232 port debugging 4, capture signal input of I/O trigger, sharing with alarm I/O in port Alarm Input 4, share with I/O port 2, AO1 relay output and AO2 optocoupler output, can Alarm Output be configured as alarm output or wiper output as needed General Power Supply 100V AC-240V AC (50Hz/60Hz) Power Consumption ≤20W

-40°C to +65°C (-40°F to +149°F)

Operating Temperature

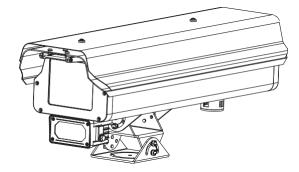
DHI-ITC352-AU3F-LZF1640

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 Adaptor	Standard

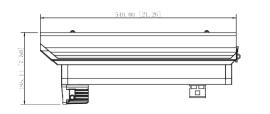
Ordering Information

Туре	Part Number	Description
Al Enforcement Camera	DHI-ITC352-AU3F-LZF1640	3MP all-in-one Al enforcement camera -L: Model with 18" protective cover
Bracket	PFA162	3-dimensional universal mounting bracket, needs to be purchased separately Brackets required = number of cameras + number of flashing lights

Installation



Dimensions (mm[inch])





Accessories

Optional:



PFA162 3-dimensional universal mounting bracket

Rev 001.001 © 2020 Dahua. All rights reserved. Design and specifications are subject to change without notice Pictures in the document are for reference only, and the actual product shall prevail.