

# DHI-ITC352-RU2D-IRL8

3MP AI Enforcement Camera



- GS-CMOS image sensor
- · 2048×1536@50fps
- Video compression standards: H.265/H.264M/H.264H/H.264B/MIPEG
- · Integrated design, IP67
- IK10(without wiper)

#### **System Overview**

With industry-specific GS-CMOS image sensor, high-performance CPU processor, and deep learning algorithm, this 3MP AI enforcement camera enjoys ultra high definition, applicable for traffic violation snapshots in E-police and ANPR modes, records of passing vehicles, collection of traffic information, event detection, etc.

#### **Functions**

#### High-quality image

Industry-specific GS-CMOS image sensor with high sensitivity, high SNR, and excellent WDR provides lifelike images in all weathers.

#### Complete intelligence

High-performance CPU processor helps extract and analyze information of motor and non-motor vehicles in real-time, providing vehicle feature details for business decision-making.

#### Various application scenarios

Applicable to most road scenarios. Supports traffic violation detection in ANPR and E-Police modes, collection of traffic flow information, and event detection.

#### **Complete sensing**

Supports Beidou/GPS positioning and timing, gyroscope attitude detection, and multi-dimensional target sensing.

#### **High-level protection**

Integrated design, built-in lightning protection module, and IP67 protection grade, suitable for various harsh environments.



Technical Specificati	ion	Intelligence	
Image Processing		Target detection	Supports detection of motor and non-motor vehicles
Image sensor	1/1.8" GS-CMOS	Face detection	Supports face detection of driver and the passenger next to driver
Shutter mode	Single shutter/double shutters/three shutters		Supports recognizing Indian plates in the baseline version; for other countries/regions, customization is required
Electronic shutter speed	1/50 s–1/100000 s (manual/auto)	License plate recognition	
Exposure mode	Supports full auto; customized auto; customized	Vehicle type detection	Supports recognizing large, medium-sized, and small vehicles, and motorcycles in the baseline version. For other vehicle types, customization is required
Iris type	Fixed iris/manual iris/DC auto iris/P-IRIS auto iris	venicle type detection	
Image resolution	2048×1536 (H×V) (OSD black strip excluded)	Vehicle color recognition	Supports recognizing white, orange, pink, black, red, yellow, gray, blue, green, purple, brown, and silver gray
Video resolution	3MP (2048×1536)/1080P (1920×1080)/720P (1280×720)/D1 (704×576)/CIF (352×288)	Motor vehicle violation snapshot	ANPR mode: Overspeed, underspeed, unfastened safety belt, calling while driving
Video frame rate	Maximum 50fps; main stream (2048×1536@25fps), substream (704×576@25fps)	Non-motor vehicle	E-police mode: Running red light, overspeed
Video bit rate	H.264: 32kbps–32767kbps H.265: 32kbps–32767kbps MJPEG: 512kbps–32767kbps	violation snapshot	Not wearing helmet  Supports statistics (by lane and by time period) on vehicle flow, average speed, vehicle type, occupancy,
Video compression	H.265/H.264M/H.264H/H.264B/MJPEG	Vehicle flow detection	average queue length, etc., and supports exporting reports
Image encoding	JPEG	Video structuring	Motor vehicle: Plate, type, color, logo, and series of vehicle; unfastened safe belt; calling while driving Non-motor vehicle: Type (non-motor vehicle or pedestrian), wearing helmet or not
Wide dynamic range	64dB		
White balance	Auto/home/office/night/custom color temperature	Port	
Noise reduction	2D NR/3D NR	Lens mount	C mount
- /	Automatic switch between day and night. IR cut-off filter (IRCF) with polarizing filter is used during daytime, and it switches to common filter at night	Aperture control port	1; DC auto iris or P-IRIS auto iris lens
Day/night mode		Frequency source sync	
Highlight compensation	Yes	port	1; sync the camera with AC
Bad pixel correction	Yes	Peripheral light port	7; optocoupler signal output (can be used as synchronous output ports of flashing light or LED strobe, frequency adjustable)
Edge enhancement	Yes	Analog output	1 BNC port
Function		Ethernet port	2 × 10x100/1000M RJ45 port.
Composite image	Support creating composite image with 1, 2, 3, or 4 image(s).	USB port	2 USB3.0 ports
Trigger mode	Video/radar	GPS port	1
OSD overlay	Time, address (position of channel), lane (number, direction), plate (number and color), vehicle (speed,	Storage port	1; maximum 256G local storage by TF card
,	color, logo, brand, type), non-motor vehicle feature	RS-485 port	2; connecting to signal detector, vehicle detector, strobe, light, etc.
Storage	FTP; TF card (up to 256GB@Class10)	RS-232 port	4; used for serial debugging or radar connection
Alarm event	Storage full, storage error, external alarm, no storage, vehicle plate blacklist, gyro abnormal attitude,	I/O port	4; used for I/O trigger capture signal input, or alarm input
	unauthorized access, network disconnection, and IP conflict	Alarm input	4; used as I/O port
Automatic network replenishment	Yes, through platform/FTP	Alarm output	2; relay/optocoupler alarm output. The port can be configured as alarm output port or wiper output port
Image tampering prevention	Yes, watermark and verification are available for videos and pictures	Audio input	1; 3.5 mm headphone jack
Positioning function	Yes, GPS/Beidou	Audio output	1; 3.5 mm headphone jack
Speed measurement	Yes(Recommend with Radar)	Power output	12V±10% voltage output, ≤1.5A current output
Attitude detection	Built-in electronic gyroscope supports attitude anomaly detection and alarm	General	.=====================================
Security	User name and password, MAC address, HTTPS, network access control	Power supply	100V AC-240V AC (50Hz/60Hz)
Auto register/Time sync	Yes; NTP/GPS	Power consumption	≤22W
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Operating temperature	-40°C to +65°C (-40°F to +149°F)	
Operating humidity	10%-90%	
Protection grade	IP67,IK10(without wiper)	
Dimensions (L×W×H)	544.0 mm×195.5 mm×171.5 mm (21.4"×7.7"×6.8")	
Net weight	8.0 kg (17.6 lb)	
Gross weight	8.5 kg (18.7 lb)	
Certification	UL/BIS/CE/FCC	
Installation	Universal joint installation	
Power supply	Standard	
Lens	Standard	

Ordering Information				
Туре	Part Number	Description		
3MP Camera	DHI-ITC352-RU2D-IRL8	3MP Al enforcement camera (850nm built-in IR light)		
Lens	DH-PFL1040-K9PE	3MP 1" 10–40mm motorized vari-focal P-Iris lens (included in the packing list)		
Bracket	PFA162	3-dimensional universal mounting bracket (not included in the packing list)		

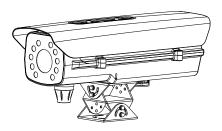
## Accessories

## **Optional:**



PFA162 3-dimensional universal mounting bracket

### Installation



# Dimensions (mm[inch])

