

# **TDLPR430M** 4 MP AI Enforcement Camera



The TDLPR240M is a powerful series that features license plate recognition, and has a recording resolution of 4 MP at 25 frames per second with a 1/1.8" starlight CMOS sensor.

### System Overview

Highly intuitive, the 4 MP AI Enforcement Camera employs its 10 mm to 50 mm motorized vari-focal lens to perform long-range video monitoring. Coming in a rugged, IP67 rated housing, the camera offers IR illumination, which makes it suitable for most harsh environments, and for locations with poor lighting. To reduce light pollution, it uses IR mode at night.

### **Functions**

### Intelligent traffic monitoring

Captures traffic violations, records passing vehicles, collects data on traffic flow, and performs event detection.

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

Built to be reliable and durable, this camera is IP67 rated.

#### Multiple types of power supplies

Supports PoE and 12–36 VDC power supplies, meeting the various power supply needs of today's customers.

#### Scene

This camera is ideal for detecting traffic violations (line crossing, speeding), recording vehicles that pass, traffic data collection, and event detection (congestion, road parking).

- 1/1.8" 4 MP starlight CMOS sensor.
- H.265 and H.264 dual codec.
- Maximum resolution: 2688 × 1520@25 fps.
- Built-in 10 mm–50 mm motorized vari-focal lens.
- The maximum illumination distance is 30 m.
- IP67 rated.

## **Technical Specification**

Camera		
Image Sensor	1/1.8" CMOS	
Image Resolution	2688 (H) $\times$ 1520 (V) (OSD black background is not calculated in the pixels)	
Shutter Mode	Single shutter	
Electronic Shutter Speed	Auto/Manual 1/50 s-1/10,000 s	
Noise Reduction	3D NR	
S/N Ratio	> 56 dB	
WDR	90 dB	
Min. Illumination	9.4 µlux	
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	
Illuminator		
Illuminator Number	4 illuminators (830 nm LED illuminators, adjustable brightness)	
IR Light	Yes	
Illumination Distance	23 m–30 m (75.46 ft–98.43 ft) (adjustable brightness)	
Lane Coverage	1–2 lanes	
Lens		
Lens	Motorized vari-focal	
Focal Length	10 mm-50 mm	
Max. Aperture	Max. F1.33	

# TDLPR430M



Field of View	Horizontal: 9.4°–40.8° Vertical: 5.4°–22.9° Diagonal: 10.7°–46.9°			
Exposure Mode	Auto; Manual (Select from shutter values or customize shutter range)			
Function				
Trigger Mode	Video detection; radar			
OSD Overlay	Time, address, device SN, lane No., plate number, plate color, vehicle logo, vehicle type, vehicle color, vehicle size, vehicle speed, country/region, event (violation name), and motorcycle attributes (type, number of people, and helmet)			
Alarm Event	Storage full, storage error, external alarm, no storage space, license plate blocklist, illegal access, and security fault			
Automatic Network Replenishment (ANR)	Platform and FTP (TF card is required)			
Auto Registration	Yes			
Intelligence				
Target Detection	Motor vehicle; motorcycle			
ANPR	Adopts developed algorithms to recognize license plate numbers and letters			
Vehicle Type Recognition	Vehicle head: Large bus, heavy truck, medium truck, sedan, van, light truck, medium bus, SUV, MPV, and pickup Vehicle tail: SUV, large bus, sedan, light truck, pickup, medium truck, van, and heavy truck			
Vehicle Color Recognition	White, pink, black, red, yellow, gray, blue, green, dark orange, purple, brown, and silver gray (color recognition is not supported during nighttime)			
Vehicle Brand/Logo Recognition	Acura; Alfaromeo; Ashokleyland; Astonmartin; Audi; Baic; Bently; Benz; BMW; Buick; BYD; Cadillac; Chery; Chevrolet; Chrysler; Citroen; Dacia; Daihatsu; Datsun; Dodge; DS; Ferrari; Fiat; Force; Ford; Foton; Geely; GMC; Greatwall; Hino; Honda; Hyundai; Infiniti; Isuzu; Iveco; Jac; Jaguar; Jeep; Kia; Kinglong; Land; Lexus; Lifan; Lincoln; Mahindra; MAN; Maserati; Mazda; Mercury; MG; Mini; Mitsubishi; Nissan; Opel; Peugeot; Porsche; Renault; Rollsroyce; Saab; Scania; Seat; Skoda; Smart; Subaru; Suzuki; Tata; Tesla; Toyota; UD; Volkswagen; Volvo			
Motor Vehicle Violation Capture	Speeding; driving slow; wrong-way driving; illegal lane change			
Motorcycle Violation Capture	Overload; not wearing helmet			
Traffic Flow Detection	Statistics on vehicle flow, average speed, vehicle type, lane occupancy, average time headway, average queue length, and road status			
Traffic Event	Motor vehicle illegal stopping on the roadway; traffic congestion			
Video				
Video Compression	H.265; H.264M; H.264H; MJPEG			
Video Resolution	4M (2688 × 1520); 1080p (1920 × 1080); UXGA (1600 × 1200); 720p (1280 × 720); D1 (704 × 576); CIF (352 × 288)			
Video Frame Rate	Max. 25 fps; main stream (2688 × 1520@25 fps), sub stream (1600 × 1200@25 fps)			
Video Bit Rate	H.264: 32 kbps–32767 kbps H.265: 32 kbps–32767 kbps MJPEG: 512 kbps–32767 kbps			
Bit Rate Control	CBR; VBR			

White Balance	Auto; Manual; Outdoor; Natural; Street Lamp; Partial	
	white balance	
Edge Enhancement	Yes	
HLC	Yes	
BLC	Yes	
Bad Pixel Correction	Yes	
Gain Range	0–100	
Image		
Composite Image	Supports combining up to 3 source images, and 1 close- up image into a composite image	
Image Resolution	2688 (H) $\times$ 1520 (V) (OSD black background is not calculated in the pixels)	
Image Encoding Format	JPEG	
Image Tampering Prevention	Verifies watermarks in videos and images	
Network		
Network Port	$1\times$ 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	
Browser	IE: IE 9–11 Chrome: Chrome 41 and earlier Firefox: Firefox 49 and earlier For Win 10 users, run the browser as administrator	
Positioning	GPS	
Time Synchronization	NTP; GPS	
Port		
Storage	1, supports maximum 256 GB TF card local storage	
RS-485	2, connects to devices such as radars	
RS-232	2, con is used for serial debugging and R T G is for connecting to radars	
Audio Input	1 channel	
Audio output	1 channel	
Alarm Input	3 channels	
Alarm Output	2 channels. 1 for relay, and 1 for optocoupler	
General		
Power Supply	12-36 VDC, PoE	
Power Consumption	≤ 13 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%	
Storage Humidity	10%-90%	
Protection	IP67	

# TDLPR430M



Certifications	CE: E234884-A6183-IT-1/4789603556-1 FCC: 4789603556-2 UL: E234884-A6183-X3	
Product Dimensions	466.4 mm × 135.8 mm × 134.1 mm (18.36" × 5.35" × 5.28") (L × W × H)	
Net Weight	3.9 kg (8.59 lb)	
Gross Weight	4.8 kg (10.58 lb)	
Installation	Installs with universal mounting brackets, or as a side-mount with mounting brackets	

# Ordering Information

Туре	Model	Description
4 MP Camera	TDLPR430M	4 MP AI enforcement camera
8018 Accessories (Optional) PFA150	8018	3-dimensional universal mounting bracket (purchase separately)
	PFA150	Mounting bracket (purchase separately)

## Accessories

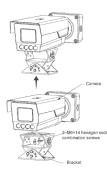
### Optional:

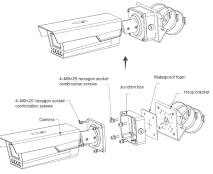


8018 3-dimensional universal mounting bracket (purchase separately)



PFA150 Mounting bracket (purchase separately)





# Dimensions (mm[inch])

