

DHI-ITARD-024MA-T6

Multilane Radar Detector



- Tracking and detection technology allows the device to track the motion of vehicles in the monitoring area, and to accurately detect the speed and position of vehicles.
- Highly stable, the device can perform detection even when exposed to dust, wind, rain, snow and changes in the lighting and temperature.
- Accurately measures vehicle speed for up to 6 lanes.
- Detects a wide range of vehicle speeds.
- The device is highly sensitive and its parameters can be configured.

System Overview

Multilane Radar Detector can be installed at a distance of 15-60 meters (49.21-196.85 ft) from the vehicle detection point, and can cover 1 to 6 lanes of vehicles at the same time. It can send a capture signal to the camera, when the vehicle is close to the detection point, it can also detect the vehicle speed and the vehicle driving lane.

Functions

Excellent Capture Rate

The detection rate of vehicles is 98% in smooth traffic.

Fast Response

The radar has a short response time that is less than 30 ms.

All-day Operation

Detection is highly stable, regardless of the weather and lighting conditions. The radar can withstand exposure to strong sunlight, fog, and many other weather types.

Scene

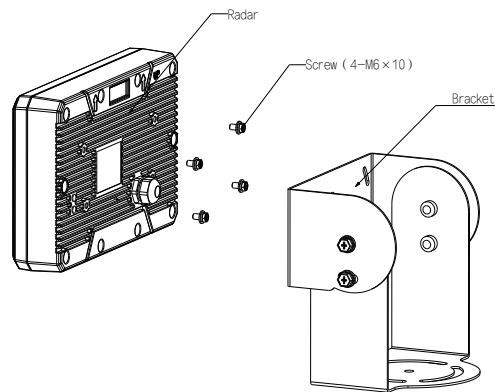
The device is ideal for traffic security systems, speeding detection, and more.

Technical Specification	
Basic	
Number of Detection Targets	64
Detection Target Type	Vehicle
Lane Coverage	6
Installation Height	5 m–8 m (16.40 ft–26.25 ft)
Lane Recognition Rate	98%
Overspeed Capture Rate	98% (uncongested road sections)
Detection Direction	Departing; approaching; two-way
Speed Measurement Range	5 km/h–300km/h (16,404.20 ft/h–984,251.97 ft/h)
Speed Measurement Accuracy	Analog speed measurement error: -2 km/h to +2 km/h (-6,561.68 ft/h to 6,561.68 ft/h) On-site speed measurement error: Vehicle speed <100 km/h (<328,083.99 ft/h): -2 km/h to +2 km/h (-6,561.68 ft/h to 6,561.68 ft/h) Vehicle speed ≥100 km/h (≥328,083.99 ft/h): ± 2%
Detection Range	15 m–60 m (49.21 ft–196.85 ft)
Detection Angle	Horizontal: ±48° (3 dB) Vertical: ±28° (3 dB)
Angle Accuracy	±0.5°
Tracking Distance	15 m–100 m (49.21 ft–328.08 ft)
Distance Accuracy	±1 m (±3.28 ft)
Transmit Power	20 dbm
Transmission Frequency	24 GHz–24.25 GHz
Bandwidth	170 MHz
Response Time	28 ms
Modulation	FMCW
Function	
Wi-Fi	Supports configuring radar parameters and commissioning the radar through Wi-Fi
Wi-Fi Standard	IEEE802.11b/g/n
Wi-Fi Frequency Range	2.4 GHz–2.5 GHz (2400 MHz–2483.5 MHz)
Wi-Fi Power Transmission	802.11b: +20 dBm 802.11g: +17 dBm 802.11n: +14 dBm
Port	
RS-485	1, shielded twisted pair
Network Port	1 × RJ-45, 10/100 Mbps Ethernet
General	
Power Supply	9–15 VDC
Power Consumption	<7.2 W
Operating Temperature	−40 °C to +70 °C (−40 °F to +158 °F)
Operating Humidity	10%–90% (RH), non-condensing

Certification	OIML R91
Product Dimensions	195.9 mm × 168 mm × 154.2 mm (7.71" × 6.61" × 6.07") (L × W × H)
Protection	IP66
Packaging Dimensions	538 mm × 458 mm × 415 mm (21.18" × 18.03" × 16.34") (L × W × H)
Net Weight	1.5 kg (3.31 lb)
Gross Weight	1.9 kg (4.19 lb)
Installation	Center mount; side mount

Ordering Information		
Type	Model	Description
Radar	DHI-ITARD-024MA-T6	Multilane Radar Detector

Installation



Dimensions (mm[inch])

