

DHI-ITARD-024MA-H

Multi Target Bayonet Radar



- One single radar covers up to 128 vehicles of 1–4 lanes.
- \cdot Precisely detects speed and position of vehicles when they are 20 m-55 m (65.6 ft-180.4 ft) away.
- Flexible to install: Either installed over the lane or at the side of a lane.
- The detection performance is not impaired by adjacent lane or vehicles in front of or behind the target vehicle.

System Overview

The multi target bayonet radar can be installed over the lane to detect vehicles 20-55 m (65.6-180.4 ft) away and cover vehicles of 1-4 lanes. It sends capture signals to the camera when the vehicle approaches the specific position, and also detects the vehicle speed and the lane that the vehicle is driving on.

Functions

Impressive Capture Rate

About 97% when traffic is smooth.

High Position Accuracy

The position accuracy of triggering capture signal is as high as $\pm\,1$ m (3.3 ft).

All-weather Working

The detection performance of the Radar is immune to glaring sunlight, dense fog or other adverse weather and lighting conditions.

Scene

The radar is applicable to traffic security system, speeding detection, and more.

Technical Specification

Performance

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Lane Coverage	1–4 lane(s) (3.75 m (12.30 ft) standard lane)	
Speed Measurement Range	5km/h-300 km/h	
Speed Measurement Accuracy	Simulated speed measurement: ±1% On-site speed measurement error range: Vehicle speed < 100 km/h: ± 2 km/h Vehicle speed ≥ 100 km/h: ± 2%	
Detection Target	Up to 128 vehicles	
Detection Range	20 m-55 m (65.6 ft-180.4 ft)	
Installation Height	4 m-8 m (13.1 ft-26.2 ft)	
Position Detection Accuracy	± 1 m (3.3 ft)	
Overspeed Capture Rate	≥ 97% (when traffic is smooth)	
Lane Recognition Rate	≥ 97%	
Frequency	24 GHz–24.25 GHz	
Response Time	≤ 50 ms	
Transmit Power (EIRP)	20 dBm (100 mW)	
Modulation	FMCW	
Detection Direction	Approaching/Leaving	
Bandwidth	250 MHz	
Protection Grade	IP66	
Radar Beam Angle	Horizontal: 60° (–3 dB) Vertical: 10° (–3 dB)	

General

Operating Voltage	12 VDC	
Average Power Consumption	< 3.5 W	
Operating Temperature	-40 °C to +85 °C (-40 °F to +185 °F)	
Relative Humidity	10%–90% (RH, non-condensing)	
Dimensions	199.5 mm × 183.0 mm × 52.3 mm (7.85" × 7.20" × 2.05") (L × W × H)	
Weight	1 kg (2.20 lb)	
Installation	Center mount/Side mount	

Port

RS-485	1. Connects cameras	
Network Port	1 RJ-45 for device debugging and update. Supports 10/100 Mbps data transmission	

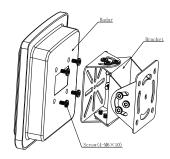
Ordering Information			
Туре	Model	Description	
Radar	DHI-ITARD-024MA-H	Multi target bayonet radar	
Accessories (Optional)	8018	Bracket	

Accessories

Optional:



8018 Bracket



Dimensions

