

Traffic Radar Detector

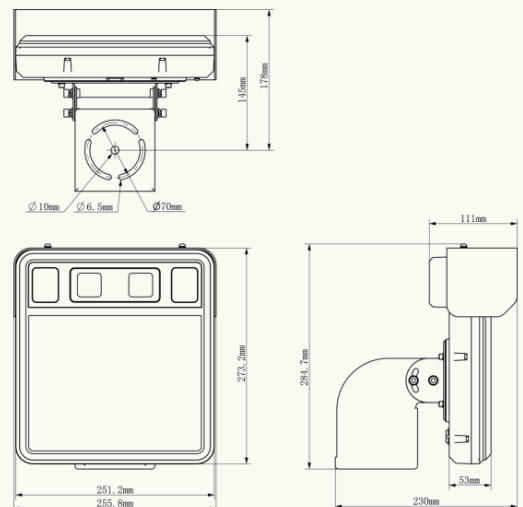


Overview

Technological innovation and developing in the direction of multi-sensor fusion. As the two most important sensors for traffic perception, cameras and millimeter-wave radar are also maturing in their respective technologies and supply chains, but in some special scenarios, the effect is still not ideal. Therefore, the two sensors are fused to complement each other's advantages and avoid the defects in their respective capabilities, so as to meet the accurate perception of traffic scenes and have the ability to work all day and all day. The LR-T13 moves forward part of the computing power of the edge server and integrates various sensors such as 80GHz high-precision millimeter-wave radar & binocular 8 million cameras to achieve full-range Radar-Camera fusion within the detection range.

Feature

- Suitable for holographic intersections, urban roads, highways, tunnels, urban expressways, etc
- Adopts 80GHz high-precision millimeter-wave radar & binocular 8 million cameras
- Supports Radar-Camera fusion trajectory tracking, Radar-Camera range (6 horizontal lanes, 350 meters longitudinal), radar coverage (10 horizontal lanes, 500 meters longitudinal)
- Supports license plate recognition and full target structure
- Supports traffic information statistics, traffic flow, queue length, average speed, occupancy, etc
- Supports traffic event detection, abnormal parking, congestion, retrograde, pedestrian detection, speeding, etc., and can be connected to MEC to achieve throwing object detection
- Supports working in an all-weather environment and is not affected by rain, fog, wind, dust, and light
- Supports built-in fill lights.
- Supports HTTP、HTTPS、websocket、nats, etc



Item	Technical Parameter
RADAR	
Operating Frequency	80GHz
Detection Range	20~200m (unobstructed)
Covered Lanes	6 lanes
Speed Range	200km/h~200km/h
Speed Accuracy	0.16 m/s
Distance Accuracy	0.4 m
Angular Accuracy	± 0.04° at long range, ±0.12° at medium range, ±0.25° at close range
Detected Targets	≥512
CAMERA	
Lens Type	Dual lens: 12mm @ F2.0, can cover 20~200m, 25mm @ F2.4, covering 200~350m
Sensor Type	CMOS is not less than 1/1.8 inch, and the effective pixels are not less than 800MP
Video Resolution	It is 3840 (H) × 2160 (V).
Minimum Illumination Level	0.001Lux @(F1.2,AGC ON)
Shutter Speed	1/25s ~ 1/10000s
Video Compression Standards	H.264, H.265, MJPEG
Video Streaming Protocol	RTSP、GB/T 28181、ONVIF
Internal Components	
TF Card	Supported
GPS	Optional
LED Fill Light	Support 20~30 meters white light license plate filling
Sunshade	Supported

Item	Technical Parameter
Radar-Camera Fusion Index	
Traffic Information Statistics	Traffic flow (≥99%), queue length (≥90%), average speed (<5%), space occupancy (≥95%), time occupancy (≥95%), Head Interval (≥95%), Space Interval (≥95%) Vehicle Density (≥95%),
Communication Protocol	HTTP、HTTPS、websocket、nats, Other customizable features available
General Specifications	
Power Supply	AC24V/DC24V
Power Consumption	≤30W
Interface	10/100M/1000M adaptive Ethernet port, RS485 interface
Operating Temperature	IP67
Weight	4.2 kilograms
Dimensions	280 mm (W) × 210 mm (H) ×65mm (D)

