ClairWav T80

80GHz Traffic Control Radar Detector



Overview

The ClairWav-T80 millimeter-wave phased array traffic radar is a non-intrusive traffic information collection sensor installed on road surfaces. It integrates radar traffic flow detection data with video detection data, enabling multi-lane, high-precision detection at intersections. It collects real-time, comprehensive, and accurate traffic information, including real-time positions, instantaneous speeds, vehicle classification, lane information, traffic volume, average speeds, time occupancy rates, headway distances, queue length statistics, and regional vehicle counts, among other comprehensive traffic statistics. It possesses core advantages such as all-weather operation, high reliability, and low installation and maintenance costs.

Key Features

- Advanced phased array radar system
- Covers up to 8 lanes
- Tracks up to 256 targets
- Detection range of up to 350 meters
- Identifies license plates, vehicle types, vehicle colors, pedestrians, non-motorized vehicles, etc.
- Detects obstacles, pedestrian intrusions, etc.
- Captures abnormal parking, highway incidents, etc.
- All-weather operation, adaptable to various harsh weather conditions
- Wide detection area, with a 90° horizontal detection range
- Simple installation and configuration, low maintenance costs
- IP67 protection, long service life



Specification

Model	ClairWav-T80L	ClairWav-T80LC
Operating Frequency	80GHz	80GHz
Maximum Detection Distance	350m (1148ft)	350m (1148ft)
Non-motorized Vehicle/Pedestrian Detection Distance	150m (492ft)	150m (492ft)
Video Camera	None	5megapixels
Detection Speed Range	±220Km/h	±220Km/h
Horizontal Field of View	±45°	±45°
Vertical Field of View	±7°	±7°
Number of Lanes	8	8
Maximum Supported Cross-section Count	64	64
Simultaneously Detected Objects	256	256
Vehicle Flow Detection Accuracy	≥95%	≥95%
Average Vehicle Speed Detection Accuracy	≥95%	≥95%
Queue Length Detection Accuracy	≥95%	≥95%
Frame Rate	20fps	20fps
Dimension	210*154*58 (mm), 8.27*6.06*2.28 (inches).	210*154*58 (mm), 8.27*6.06*2.28 (inches).
Weight	1.5Kg	1.5Kg
Communication	100Mbps RJ45 Ethernet port RS485	100Mbps RJ45 Ethernet port RS485
Power Supply	DC24V (DC21.6V-32V)	DC24V (DC21.6V-32V)
Power Consumption	25W	25W
Operating Temperature	-40 to 70°C (-40 to 158°F)	-40 to 70°C (-40 to 158°F)
Storage Temperature	-45 to 85°C (-49 to 185°F)	-45 to 85°C (-49 to 185°F)
Humidity	≤95%	≤95%
Protection Class	IP67	IP67
MTBF	10 Years	10 Years

Ordering Information

Model	Description
ClairWav-T80L	80GHz, multi-target traffic control radar detector, the detection distance ranges up to 350m
ClairWav-T80LC	80GHz, multi-target traffic control radar detector integrated with video camera, the detection distance ranges up to 350m