

Radar-Vision Traffic Detector

PCI-LD350-V

Product Introduction

Radar-Vision is an intelligent transportation device of PCI Technology, integrating high-precision millimeter-wave radar and deep learning camera units. It can simultaneously acquire multi-dimensional traffic flow information of motor vehicles, such as ID, position, speed, attitude, and attributes, effectively assisting traffic departments in enhancing fine-grained perception of vehicles on urban roads, expressways, and highways.

Product Features

- Adopts industry-specific GS-CMOS image sensors with high photosensitivity, high signal-to-noise ratio, and high wide dynamic range.
- Integrates high-precision millimeter-wave radar and deep learning camera units for multi-dimensional and deep data fusion.
- Collects multi-element information of target objects (identity, position, speed, attitude, attributes).
- Covers a wide range, meeting the tracking of target trajectories (12-lane bidirectional) roads, with a motor vehicle detection distance of up to 400 meters.
- Integrates multiple functions (vehicle recognition, traffic event perception, traffic flow perception).



Technical Parameters

name	Radar Traffic Flow Detector
Sensor Type	≥1/2.8-inch CMOS
Camera	5MP
Minimum Illuminance	Color: 0.1Lux@(F1.2, AGC ON); B&W: 0.01Lux@(F1.2, AGC ON)
Resolution	2560×1920
Video Frame Rate	25fps
Video Bit Rate	16 Kbps–20 Mbps
Video Compression Standard	MJPEG; H.264; H.265
Radar Transmission Frequency	80 GHz
Speed Measurement Range	–200 km/h–+200 km/h
Speed Measurement Accuracy	±0.1 m/s
Maximum Number of Radar-Tracked Targets	256
Number of Radar-Detected Lanes	≥12-lane bidirectional
Maximum Detection Distance	400 m
Distance Measurement Accuracy	Close-range accuracy: ±0.1 m
Vehicle Recognition	Supports license plate, vehicle type, body color, etc.
Traffic Event Perception	Supports detection of events such as solid lane changes, overtaking, lane crossing, low speed, queue spillover, congestion, reverse driving, illegal parking, etc.
Traffic Flow Perception	Supports collection of traffic information such as lane flow, queue length, average speed, time occupancy, space occupancy, vehicle time gap, headway, 85th percentile speed, etc.
Traffic Flow Detection Accuracy	≥95%
Event Detection Accuracy	≥95%
Queue Length Detection Accuracy	≥90%
Vehicle Capture Rate	≥99%
Storage Function	Supports local TF card storage
Operating Temperature	–40°C–70°C
MTBF (Mean Time Between Failures)	100,000 hours
Communication Interfaces	Supports RJ45, RS485, etc.
Power Input	DC24V±10%
Protection Level	≥IP66

Authorised Distributor



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