

Heimdall VCS

ANONYMOUS, ACCURATE VEHICLE COUNTING— WITHOUT TOUCHING THE ROADWAY

The Heimdall VCS is a cutting-edge vehicle counting system incorporating recent technology advancements in high-performance sensors, wireless connectivity, and artificial intelligence to provide unprecedented performance at an affordable price.

FEATURES AND FUNCTIONS

- LIDAR-Based solution means vehicles can be counted without hardware on the roadway – Allowing lower installation and maintenance costs.
- Respects privacy – The system does not make use of cameras.
- Outdoor Rated – IP67, NEMA4.
- WiFi with optional LoRaWAN (Low power, Long Range RF link) or cellular connectivity. – Requires no external wiring to the unit.
- Easy integration with back-end systems – Secure, HTTPs API.
- Battery-backed solar power for reliable, autonomous operation.
- Accurate target determination at up to 12 meters of range.
- Advanced signal processing allows reliable operation in rain and fog.

HEIMDALL VCS SPECIFICATIONS

Use Case

Vehicle counting applications: 1-2 Lanes of traffic.

Vehicle speed: Up to 60 MPH

LIDAR Sensor Specifications

Operating Range 0.1 – 12 meters

Accuracy: +/- 5 cm

Field of View: 3.6 degrees

Frame Rate: 100 Hz

Counting Accuracy: >95% counting accuracy at distances < 12 meters and speeds < 60 MPH. (Performance may vary in extreme weather conditions.)

Interface / Communications

WiFi, Cellular, LoRaWan: WiFi included. Cellular and LoRaWAN optional.

Cellular service: Not included.

Security: HTTPs, WPA under WiFi

API: JSON-based for easy integration

Mounting / Power

Mounting: Surface mount or pole mount (custom options available)

Input Voltage: 5-7 VDC (DC power supply or supplied solar panel output)

Power Consumption: 1 Watt typ.

Battery: Capacity: 12,800mAh, 47 Watt Hours

Battery Type: Li-Ion

Protection: Short circuit over charge, over discharge, over temperature (45° Input Cutoff, 60° Output Cutoff), under temperature (0° Input Cutoff, -20° Output Cutoff)

Environmental

Enclosure: High Impact UV resistant polycarbonate, IP67/NEMA4

Operational Temperature: 20° to + 60°

Storage Temperature -20°C to +60°C

Warranty: Replacement, 3 years parts and labor.



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Ready to get started?

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