

# 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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