Product family overview





Load Volume Measurement System

Measuring truck load volumes dynamically and fully automatically

SICK
Sensor Intelligence.

Load Volume Measurement System





Technical data overview

Installation position	Overhead or at the side
Integrated application	Flat bed Bulk material (depending on type)
Number of covered lanes	1

Product description

The load volume measurement system measures the load volume of truck loads on flatbed loading areas or the remaining loading volume of dump trucks in a single pass and without the need for the vehicle to come to a stop. Having precise data on load volumes is especially important for loads with an unknown moisture content, for example, to determine the dry weight. The vehicle is scanned up to 100 times per second using eye-safe 2D LiDAR sensors. The 3D model created from the collected measurement data serves as the basis for calculating the load volume. The system reliably identifies irrelevant vehicle parts and fasteners and excludes them automatically.

At a glance

- Automated and non-contact load volume and remaining volume measurement
- 3D visualization including calculation of the vehicle dimensions
- Customer-specific integration of HD cameras, ANPR, WIM, RFID possible
- Web-based user interface for convenient remote access

Your benefits

- Shorter measurement process thanks to the automated volume calculation without the vehicle stopping
- Single pass – no comparative measurement required
- Effective volume values thanks to the exclusion of irrelevant vehicle parts through intelligent detection of the loading area
- Volume data for further processing available in a matter of seconds
- Easy installation, maintenance, and operation
- No installations in the road surface necessary
- Ready for use around the clock and without operators
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Fields of application

- Billing processes based on effective volume data
- Determination of the dry weight for wet loads
- Determination of the remaining volume of bulk materials in dump trucks
- Optimization of loading processes

Ordering information

Other models and accessories ➜ www.sick.com/Load_Volume_Measurement_System

Application	Items supplied	Type	Part no.
Flat bed	LMS511 HD (5 x), Application Processing Unit (APU), LVM software	LVM5552	1109233
Bulk material	LMS511 HD (3 x), Application Processing Unit (APU), LVM software	LVM5532	1114632

SICK AT A GLANCE

SICK is one of the leading manufacturers of intelligent sensors and sensor solutions for industrial applications. A unique range of products and services creates the perfect basis for controlling processes securely and efficiently, protecting individuals from accidents and preventing damage to the environment.

We have extensive experience in a wide range of industries and understand their processes and requirements. With intelligent sensors, we can deliver exactly what our customers need. In application centers in Europe, Asia and North America, system solutions are tested and optimized in accordance with customer specifications. All this makes us a reliable supplier and development partner.

Comprehensive services complete our offering: SICK LifeTime Services provide support throughout the machine life cycle and ensure safety and productivity.

For us, that is “Sensor Intelligence.”

WORLDWIDE PRESENCE:

Contacts and other locations –www.sick.com