Product family overview

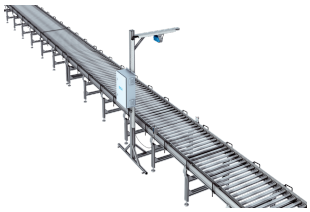


VMV Dimensioning System

Dimensioning of a wide variety of objects using 3D snapshot technology

SICK
Sensor Intelligence.

VMV Dimensioning System



Technical data overview

Industries	Distribution and fulfillment CEP and freight Warehouse automation
Transport speed	≤ 0 m/s ... 2 m/s (start-stop operation possible) (depending on type)
Accuracy of object coverage	± 5 mm x ± 5 mm x ± 2 mm ... ± 10 mm x ± 10 mm x ± 5 mm
Minimum object size	40 mm x 40 mm x 10 mm ... 100 mm x 100 mm x 50 mm
Maximum object size	700 mm x 500 mm x 400 mm ... 1200 mm x 1000 mm x 800 mm
Output data	Maximum dimensions (length, width, height) of Minimum Bounding Box, Volume (the minimum bounding box), Image output in .png

Product description

The VMV Dimensioning System track and trace system measures the exact length, width and height of objects. There is a suitable system variant for both static and dynamic processes. The 3D snapshot technology generates a 3D point cloud in a single measurement operation. This is used to precisely determine the dimensions, corner coordinates, and angle of rotation of the object. The 3D camera also captures an RGB image, which is used for result optimization and documentation. Additional AI-based software modules are available for particularly challenging objects such as semi-transparent surfaces.

At a glance

- 3D snapshot technology for creating a 3D point cloud
- AI-supported software modules
- Installation assistant
- RGB image capture

Your benefits

- Fast dimensioning at variable conveying speeds
- Dimensioning of challenging objects: glossy, black or semi-transparent surfaces, very flat objects and objects in totes
- Quick and safe installation
- Process automation by recording position and rotation so the data can be transmitted to downstream process steps (e.g. sorting robots)

Fields of application

- Dimensioning of objects in static and dynamic processes
- Testing of downstream processes: sorting, singulation of objects in totes, positioning of shipping labels
- Object measurement in totes for fill level and protrusion monitoring
- Determination of suitable conveying aids
- Object verification by comparing actual product dimensions with the data in the ERP system

Ordering information

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

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