



Dolly Positioning

SensorApp for identifying the position and orientation of dollies

Advantages

Expand the functions of the Visionary-T Mini AP with Dolly Positioning.



Quick identification of coordinates

The Dolly Positioning app very quickly identifies corner coordinates of a dolly so that an AGV system can pick it up immediately.

Efficient processes

From image acquisition to data transmission, the app typically requires less than 400 ms. This enables efficient processes.

Easy integration into AGV systems

The Dolly Positioning app runs on the compact Visionary-T Mini AP. That means integration into AGV systems is simple.



The Dolly Positioning app provides all the information AGV systems need to pick up dollies.



Technical data overview

Task	3D position determination for picking up dollies
Technology	3D snapshot, optical time-of-flight method
Language	English
Supported products	V3S145-1AAAAAA
Minimum screen resolution	1,024 px x 768 px
Supported browsers	Google Chrome (Version 77 or higher)

Product description

Before an AGV system lifts a dolly, accurate identification of the position and orientation of the dolly is required for fine positioning of the vehicle. The Dolly Positioning SensorApp is perfectly suited for this. It processes the raw data on the position and orientation of the dolly and then transmits corner coordinates to the controller of the AGV system. The app is installed on the Visionary-T Mini AP from SICK. That means no external computing capacity is required. Configuration is possible without any programming knowledge. Dolly Positioning is based on the SICK AppSpace eco-system. There are two ways to get the app: Either as a single license or by purchasing a Visionary-T Mini AP from SICK which has the app preinstalled.

At a glance

- Automated, reliable position determination for dollies
- Identifies the x-, y- and z-coordinates of the front bottom corners of a dolly
- Processes distance values with 510 x 420 pixels per recording
- Working range: 1 m to 3 m
- Typically requires less than 400 ms from image acquisition to data transmission

Your benefits

- Increases efficiency of AGV systems in logistics
- Easy integration into AGV systems
- Low maintenance requirements thanks to the combination of app and hardware
- Data can be easily viewed and visualized thanks to the integrated web interface
- Saves computing capacity on the AGV system controller since the software is installed on the Visionary-T Mini AP
- The user-friendly configuration software allows for quick adaptation to the ambient conditions

Fields of application

- Automated intralogistics processes in many areas of factory automation
- Industrial vehicles
- Mobile automation
- Storage and conveyor technology
- Courier, express, parcel and postal services
- Retail and warehousing

Ordering information

Other models and accessories → www.sick.com/Dolly_Positioning

- **Product family:** Dolly Positioning
- **Application:** Digital Design, Operations, 2D and 3D Machine Vision solutions

Description	Type	Part no.
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<p>Precision is key when it comes to the automated pick-up of dollies with an automated guided vehicle system (AGV system). The fine positioning of the AGV system requires the exact identification of the relative place and position of the dolly. The Dolly Positioning SensorApp provides the data needed for this purpose. It runs directly on the Visionary-T AP 3D vision sensor from SICK. The measured values required to automatically pick up the dolly are pre-processed and evaluated on the sensor, then transmitted to the control of the automated guided vehicle system. The Dolly Positioning SensorApp is based on the SICK AppSpace concept and can be loaded on the sensor as a complete, application-specific Key App.</p>	Dolly Positioning Visionary-T	1613573

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