



Map creation

Generation of precise digital maps for AGVs

PRODUCT AND SYSTEM SUPPORT

SICK
Sensor Intelligence.



Product description

A precise reference map is the foundation for high availability of automated guided vehicles (AGVs) in environments in which localization must be done without additional reflector marks. The position of the AGV is determined by comparing the scan data of a SICK 2D LiDAR sensor recorded at the current position with the data of a reference map.

The reference map is generated based on the system scan data provided by the customer or recorded by SICK. Using the scan data, the precise space contours of the environment along the route are defined and a detailed reference map is created. Services cover offline thorough check and provision and archiving of the reference map.

At a glance

- Check of the scan data provided for map generation
- Processing of data sets for optimal reference map generation
- Offline thorough check of reference map
- Provision and archiving of reference map

Your benefits

- Quick creation of a digital reference map
- Localization of automated guided vehicles (AGVs) without reflector marks
- Easy commissioning through offline thorough check of the reference map after generation
- Cost savings thanks to simpler installation in the event that the reference map is updated due to modifications or extensions of the route of the AGV

Ordering information

Additional services → www.sick.com/Map_creation

- **Product area:** LiDAR-LOC, NAV-LOC

Range of services	Documentation	Duration	Type	Part no.
-	-	At cost	Mapping service	1614548
Check scan data and adjust it for further processing, calculation of reference map, offline testing of reference map, provision of reference map and documentation	Documentation of reference map, test report as proof of acceptance, archiving of reference map in a SICK database	The estimated labor time is calculated according to the amount of effort required, the amount of effort needed to produce the digital reference map depends on the customer application, the quality of the recorded data, the size of the plant, the length of the routes, and the number of AGVs	Map creation	1612195

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