SICK.COM



DATA SHEET

Nova LMS4000

SICK Nova
Application software

SICK Sensor Intelligence



APPLICATION SOFTWARE

Nova LMS4000

ORDERING INFORMATION

Type	part no.
Nova LMS4000	On request

Further device versions and accessories at www.sick.com/SICK_Nova

DETAILED TECHNICAL DATA

FEATURES

Description	The Nova LMS4000 SensorApp is compatible with devices from the SIM2x00 product family that are used together with the LMS4000 2D LiDAR sensor. A Presence Inspection License, Quality Inspection License or Intelligent Inspection License is required to use the app. The Presence Inspection Toolset is used, for example, to check whether objects – like on a conveyor – meet the relevant specifications and are positioned correctly. The Quality Inspection toolset extends Presence Inspection and ensures that products meet the exact requirements after production, e.g., in terms of dimensions and angles. The Intelligent Inspection Toolset extends Quality Inspection and additionally allows the use of powerful AI-supported Deep Learning image analysis tools for solving problems that are not possible with rule-based image processing.
Task	Detecting - Standard objects Detecting - Level Measuring - Dimension, contour and volume Monitoring and controlling - Quality Identifying - Pattern Identifying - Sorting Determining position - 2D position determination Determining position - 3D position determination
Technology	2D LiDAR, image analysis

[1] 2-hour test phase.

Product category		Programmable, configurable
SICK Nova Toolset		
	Presence Inspection License	Area Blob Finder (2D, 3D) Blob Locator (2D) Blob Region Finder Completeness Check Edge Pixel Counter (2D) Feature Locator (2D, 3D) Missing Data Filter Morphology Filter Object Locator (2D, 3D) Pixel Counter (2D) Plane Fitter Probe Height Surface Fitter AI Anomaly Detection (2D) AI Anomaly Detection (dStudio) (2D, 2-hour test phase) AI Blob Finder (dStudio) (2D, 2-hour test phase) AI Classification (2D, 2-hour test phase) AI Classification (dStudio) (2D, 2-hour test phase) AI Object Detection (2D, 2-hour test phase) AI Object Detection (dStudio) (2D, 2-hour test phase)
	Quality Inspection License	Angle Blob Analyzer Blob Verifier Box Finder Distance (2D, 3D) Line Line Fitter (2D, 3D) Min/Max Plane Point (2D, 3D) Position Verifier (2D) Circle Fitter Volume AI Anomaly Detection (2D, 2-hour test phase) AI Anomaly Detection (dStudio) (2D, 2-hour test phase) AI Blob Finder (dStudio) (2D, 2-hour test phase) AI Classification (2D, 2-hour test phase) AI Classification (dStudio) (2D) [1] AI Object Detection (2D, 2-hour test phase) AI Object Detection (dStudio) (2D, 2-hour test phase)
	Intelligent Inspection License	AI Anomaly Detection (2D) AI Anomaly Detection (dStudio) (2D) AI Blob Finder (dStudio) (2D) AI Classification (2D) AI Classification (dStudio) (2D) AI Object Detection (2D) AI Object Detection (dStudio) (2D)
Expansion options		The SICK Nova Tool plug-in enables customer-specific or new tools to be added. Development and customization of the tools is supported by SICK AppSpace and SICK AppStudio.
Language		German, English, French, Italian, Spanish, Japanese, Korean, Chinese
Documentation		Operating instructions
Supported products		SIM2x00 + LMS4000

[1] 2-hour test phase.

SYSTEM REQUIREMENTS

Firmware	See release notes or AppPool for the respective version of the SensorApp
Minimum screen resolution	512 px x 424 px
Supported browsers	Google Chrome (version 80 or higher)

Installation tool	SICK AppManager License Manager SensorApp (for activating the license on the device)

Further information as well as suitable accessories, example applications and downloads such as CAD dimensional models, operating instructions and software can be found at www.sick.com/SICK Nova

SICK AG
WALDKIRCH
GERMANY
SICK.COM

SICK AT A GLANCE

SICK is a leading global technology company for intelligent sensors and integrated solutions in industrial automation. Our technologies set benchmarks, making your industrial processes more efficient, safer and more sustainable – both in logistics and manufacturing operations.

SICK combines sensor intelligence with industry expertise and certified consulting services. We provide the ideal foundation for scalable as well as tailor-made automation solutions and create added value along the entire value chain. Our close partnerships with our customers are more than just a promise: Together, we optimize productivity, improve quality, protect health and safety, and help build a sustainable future. All with empathy and trust.

Since 1946, we have been developing innovative technologies with passion and a pioneering spirit. With a global network in around 40 countries, SICK has a global presence and is always close by. The company's headquarters are located in Waldkirch near Freiburg, Germany. Our customers benefit from our understanding of both local and global requirements, which enables us to deliver tailor-made solutions

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