



SIM2x00 Nova

High-performance, customizable 2D machine vision in tight spaces

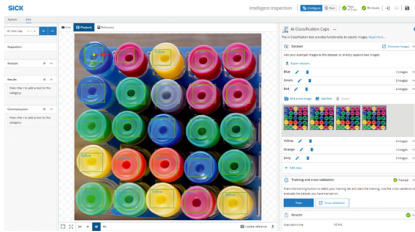
SICK
Sensor Intelligence.

Advantages

High-performance 2D vision solution when space is limited



The minuscule design of picoCam2 and midiCam2 offers high-resolution solutions in areas where space is limited. It also makes it suitable for robot end-of-arm mounting. Simple operation thanks to PoE, using just one connecting cable.



Combining picoCam2 or midiCam2 with SICK Nova tools enables support for color inspection.



The SIM2x00 Nova Sensor Integration Machine is dedicated to high-frame-rate and high-resolution machine vision tasks.



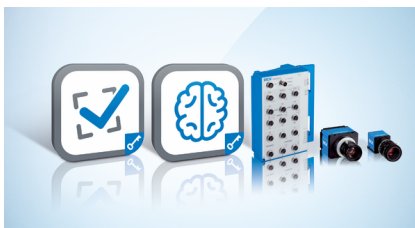
Easy-to-use, high-performance solutions with Artificial Intelligence

Go one step further with SICK Nova

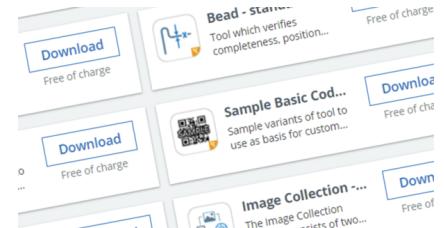
Machine vision applications are easily handled in a web browser using point-and-click configuration, giving users the freedom to combine tools for image processing and integration as they need. But the functionality does not end there: With SICK Nova, users can download additional Nova tools or develop their own, allowing them to quickly and conveniently extend functionality to fit the application – without limitations.



Quickly solve tasks with just the right tools at your fingertips.



Choose the right sensor for the application and use the same familiar software.



Rapidly create customized solutions with AppPool downloads or custom development.



Rapidly handle your applications like never before. Add, combine, and customize tools with ease.



Product description

The SIM2x00 Nova Sensor Integration Machine is dedicated to high frame rate and high-resolution machine vision tasks. It offers solutions for limited spaces when used in combination with picoCam2 or midiCam2 sensors, for both color and monochrome. The Quality Inspection toolset ensures that manufactured items meet the exact qualities required, including the presence of specific details and the accuracy of their measurements. The Intelligent Inspection toolset solves complex tasks with AI Deep Learning technology. Users can easily add standard and custom SICK Nova tools. Any special inspection needs are solved with a custom tool, which can be quickly created by anyone with a SICK AppSpace license.

At a glance

- Quality Inspection toolset for location, inspection, measurement and color
- Intelligent Inspection toolset to classify and detect anomalies
- Supports single picoCam2 or midiCam2
- Medium to high resolution in monochrome or color
- Quick customization with SICK Nova plug-in tools
- Easy configuration in web interface

Your benefits

- Easy-to-use, high-performance machine vision
- Automated quality analysis and verification of details in tight spaces to improve production yield and speed
- Reliable inspection to reduce waste and avoid production downtime
- Customer satisfaction resulting from delivery of high-quality products
- Free up time for more fulfilling assignments thanks to elimination of tedious quality control work tasks
- Quick solutions for special inspection needs with a custom tool
- Ability to create your own customized solutions

Fields of application

- Fast in-line quality control for consumer goods, automotive and electronics industries
- Manufacturing and assembly verification
- Part localization and measurement
- Detail inspection, counting and measurement
- Color verification and sorting
- Challenging classification and anomaly applications

Ordering information

Other models and accessories → www.sick.com/SIM2x00_Nova

- **Enclosure rating:** IP65
- **Connections:** I/O, Power, SERIAL, INC, Fieldbus, CAN, SENSOR S1-S6, Ethernet with PoE, USB
- **Product category:** configurable, programmable
- **Supported products:** picoCam2, midiCam2
- **SensorApp:** Nova SIM 2D

Processor	Toolkit	License included	Type	Part no.
8-core ARM Cortex-A72 CPU with NEON accelerator	SICK algorithm API	Quality Inspection License, Optional upgrade with the Intelligent Inspection Upgrade License, which enables productive use of the complete toolset.	SIM2000-2AX4G10 Nova 2D QI	1134353
		Intelligent Inspection License	SIM2000-2AX4G10 Nova 2D II	1135069
8-core ARM Cortex-A72 CPU with NEON accelerator, FPGA co-processor for image processing (object finder)	SICK algorithm API, HALCON (image processing library) for customer development	Quality Inspection License, Optional upgrade with the Intelligent Inspection Upgrade License, which enables productive use of the complete toolset.	SIM2500-2AX3G10 Nova 2D QI	1135072
		Intelligent Inspection License	SIM2500-2AX3G10 Nova 2D II	1135073
	SICK algorithm API, Image processing library for customer development	Quality Inspection License, Optional upgrade with the Intelligent Inspection Upgrade License, which enables productive use of the complete toolset.	SIM2500-2AX1G10 Nova 2D QI	1135070
		Intelligent Inspection License	SIM2500-2AX1G10 Nova 2D II	1135071

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