



## InspectorP63x

All-in-one vision sensor with flexible optics and rugged housing

**SICK**  
Sensor Intelligence.

## Advantages



### Go one step further with SICK Nova

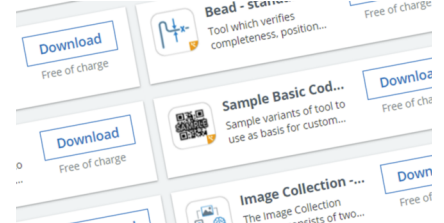
The Quality Inspection toolset of SICK Nova is included with InspectorP6xx 2D sensors. What does this mean? Machine vision applications are easily handled in a web browser using point-and-click configuration, giving users the freedom to combine tools for image processing and integration as they need. 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.



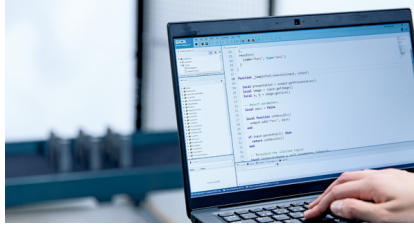
**Rapidly handle your applications like never before. Add, combine, and customize tools with ease.**

### Endless possibilities with SICK Nova in AppSpace

Some applications require everything to be programmed from scratch. So it is good to know that behind SICK Nova you have the SICK AppSpace ecosystem. Programming is fully flexible, and you have the support of other programmers and AppSpace developers.



Use SICK AppStudio for developing SensorApps and Nova tools that can run directly on all InspectorP devices.



Combine existing tools with custom code for turbocharged development and flexible re-use in SICK Nova.



The SICK Support Portal is the central community platform of a SICK AppSpace developer and offers access to tutorials, tools, documentation, and FAQs.



**Development in SICK AppStudio facilitates complete customization if needed.**

## SICK LifeTime Services

**SICK's services increase machine and plant productivity, enhance the safety of people all over the world, provide a solid foundation for a sustainable business operation, and protect investment goods. In addition to its usual consulting services, SICK provides direct on-site support during the conceptual design and commissioning phases as well as during operation.**

**The range of services not only covers aspects like maintenance and inspection, but also includes performance checks as well as upgrades and retrofits. Modular or customized service contracts extend the service life of plants and therefore increase their availability. If faults occur or limit values are exceeded, these are detected at all times by the corresponding sensors and systems.**



### Consulting and design

Application-specific advice on the product, its integration and the application itself.



### commissioning and maintenance

Application-optimized and sustainable — thanks to professional commissioning and maintenance by a trained SICK service technician.



### service contracts

Extended warranty, SICK Remote Service, 24-hour helpdesk, maintenance, availability guarantees and other modular components can be individually combined on request.



## Technical data overview

<b>Sensor</b>	CMOS matrix sensor, grayscale values
<b>Sensor resolution</b>	1,280 px x 1,024 px (1.3 Mpixel) 1,600 px x 1,200 px (1.9 Mpixel)
<b>Optical focus</b>	Adjustable focus
<b>Lens</b>	C-mount / S-mount (depending on type)
<b>Optical format</b>	1/1.8"
<b>Operator interfaces</b>	Web server
<b>Control elements</b>	2 buttons
<b>Serial</b>	✓, RS-232, RS-422
<b>Ethernet</b>	✓, TCP/IP, FTP, HTTP
<b>CAN</b>	✓, SICK CAN sensor network (CAN controller/CAN device)
<b>EtherNet/IP™</b>	✓
<b>PROFINET</b>	✓, PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)
<b>Configuration software</b>	SICK AppStudio
<b>Dimensions</b>	108 mm x 63 mm x 46 mm <sup>1)</sup>

<sup>1)</sup> Housing only, without lens and optics protection hood.

## Product description

The InspectorP63x is an industrial programmable and configurable 2D vision camera for most vision tasks. Boasting image resolutions of 1-2 megapixels, a compact IP 67 housing, and a flexible high-end optical design, it is perfectly equipped to meet demanding automation environments. The application software is fully flexible thanks to the SICK AppSpace development environment, with image processing powered by HALCON and SICK Algorithm Library.

## At a glance

- 2D vision sensors with 1.3 and 1.9 megapixels
- Configuration of toolset in a web browser
- Programming of new SensorApps in SICK AppStudio
- Flexible S- and C-mount lenses and integrated lighting
- Laser alignment aid, beeper and feedback spot
- Includes HALCON runtime license and SICK Algorithm Library

## Your benefits

- Flexible optical design enables analysis of small features at high speeds
- Easy start for anyone with the pre-installed Quality Inspection toolset of SICK Nova
- Fast, high-resolution programmable 2D cameras ensure maximum performance
- Unique operator interaction possibilities thanks to powerful set of convenience features
- Addition or extension of tool functionality for customized solutions with SICK Nova
- Exceptional programming flexibility in SICK AppSpace or HALCON
- Deep learning available as licensed option

## Fields of application

- Robot picking
- Precise part positioning
- Quality inspection of shapes and dimensions
- Defect and part presence detection
- Calibrated, high-accuracy measurements
- Track and trace by code reading and OCR
- Object sorting

## Ordering information

Other models and accessories → [www.sick.com/InspectorP63x](http://www.sick.com/InspectorP63x)

- **SensorApp:** Nova InspectorP
- **License included:** Quality Inspection License, Optional upgrade with the Intelligent Inspection Upgrade License, which enables productive use of the complete toolset.
- **Products by tasks:** classification, Identification, Position determination, 1D code, 2D code, presence inspection, Quality check, measuring, 2D
- **Illumination:** To be ordered separately as accessories
- **Sensor:** CMOS matrix sensor, grayscale values
- **Optical focus:** adjustable focus

Lens	Sensor resolution	Type	Part no.
To be ordered separately as accessories, C-mount	1,280 px x 1,024 px (1.3 Mpixel)	V2D631P-2MXCXB0	1082298
	1,600 px x 1,200 px (1.9 Mpixel)	V2D632P-2MXCXB0	1082300
To be ordered separately as accessories, S-mount	1,280 px x 1,024 px (1.3 Mpixel)	V2D631P-2MXSXB0	1082299
	1,600 px x 1,200 px (1.9 Mpixel)	V2D632P-2MXSXB0	1082301

## 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](http://www.sick.com)