InspectorP62x

All-in-one vision sensor with electric focus and rugged housing
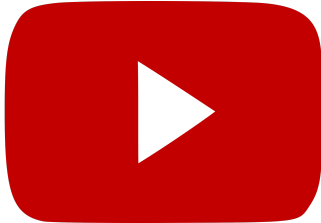
SICK
Sensor Intelligence.

Advantages
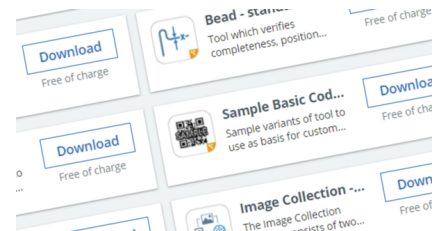

Go one step further with SICK Nova

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, check out these Tutorials for how! Link to playlist

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

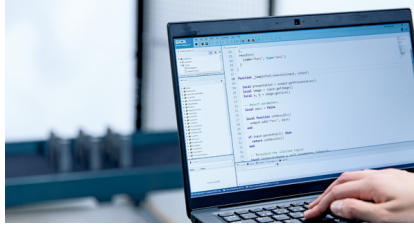Rapidly create customized solutions with AppPool downloads or custom development.

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.**

Unleash the capabilities of AI-assisted quality control

AI functionality makes machine vision tasks easier than ever. By teaching the vision sensor using examples instead of manually setting up rules, users can solve applications quickly while gaining new levels of inspection capabilities. Combining the benefits of AI tools and rule-based tools opens up extensive possibilities for solutions, regardless of how experienced the user is with machine vision.

Find out more about the AI solutions from SICK

Training the AI on the device
SICK Nova provide easy-to-use AI tools that can be taught using examples. Collect, train, and execute directly on the device. Combine with rule-based tools to easily verify known specifications.

AI training using SICK dStudio
SICK dStudio Cloud Service trains AI at scale with optimized inspection accuracy and speed on the sensor. Convenient data management and collaborative annotation make handling large data sets a breeze and makes it possible to take on big projects with confidence.

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

Sensor	CMOS matrix sensor, grayscale values
Sensor resolution	1,280 px x 1,024 px (1.3 Mpixel)
Optical focus	Adjustable focus (electric)
Operator interfaces	Web server
Control elements	2 buttons
Serial	✓, RS-232, RS-422
Ethernet	✓, TCP/IP, FTP, HTTP
CAN	✓, SICK CAN sensor network (CAN controller/CAN device)
EtherNet/IP™	✓
EtherCAT	✓, optional over external fieldbus module
PROFINET	✓, PROFINET Single Port
PROFIBUS DP	✓, optional over external fieldbus module
Configuration software	Web GUI (SensorApp configuration), SICK AppStudio (programming)
Dimensions	71 mm x 43 mm x 35.6 mm

Product description

The InspectorP62x is an industrial all-in-one vision sensor that is easy to use, compact and versatile. The integrated system of teach auto focus optics and flexible illumination provides high-quality images right out of the box. The included and pre-installed Quality Inspection toolset of SICK Nova welcomes both expert and non-expert users to configure the sensor in no time using an accessible and intuitive web user interface. As it is based on SICK AppSpace, the InspectorP62x allows for further extension or replacement of functionality through a growing collection of SICK Nova Tools or SensorApps from SICK AppPool, or through custom development if needed.

At a glance

- Supplied and preinstalled Quality Inspection toolset from SICK Nova
- Compact, rugged IP65 housing with swivel connector
- Powerful LEDs, high-quality lens and teach auto focus
- Countless communication interfaces
- Execution of compatible SICK AppSpace SensorApps
- Can be programmed with SICK AppStudio

Your benefits

- Ready to solve machine vision tasks right out of the box
- Fits in small spaces and tight angles
- All-in-one design for simple stand-alone operation
- Industrial communication and digital IOs allow for flexible system integration
- Easy start for anyone with the included and pre-installed Quality Inspection toolset
- 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

SensorApp for quality inspection included, e.g.:
- Inline quality control in the production of parts, assemblies or products
- Inspection and measurement of details

Other SensorApps, systems or custom development for additional tasks, e.g.:
- Fine positioning of stacker cranes
- OCR, OCV and code reading

InspectorP62x

Ordering information

- **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, identifying, Position determination, 1D code, 2D code, presence inspection, Quality check, measuring, 2D, OCR
- **Illumination:** integrated
- **Sensor resolution:** 1,280 px x 1,024 px (1.3 Mpixel)
- **Sensor:** CMOS matrix sensor, grayscale values
- **Optical focus:** Adjustable focus (electric)

Illumination color	Lens	Working distance	Type	Part no.
Red Blue	17.1 mm	300 mm … 1,500 mm	V2D621P-2MSFFB5	1110848
	9.6 mm	70 mm … 1,500 mm	V2D621P-2MSFBB5	1110847
Infrared	17.1 mm	300 mm … 1,500 mm	V2D621P-2MDFGB5	1110849
	9.6 mm	70 mm … 1,500 mm	V2D621P-2MDFCB5	1130942

Online data sheet

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**

SICK
Sensor Intelligence.

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