



InspectorP61x

Powerful 2D vision sensor for tight spaces

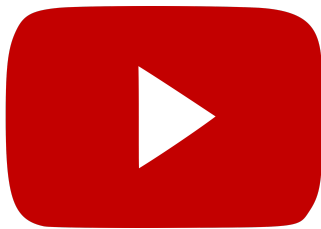
SICK
Sensor Intelligence.

Advantages

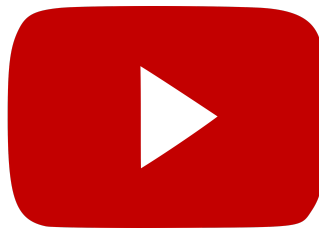


Simplicity out of the box

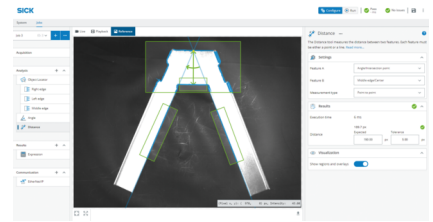
The ultracompact InspectorP61x fits into tiny spaces, and getting started to use it for inspection, positioning, and measuring is easy. The InspectorP6xx is a series of highly flexible all-in-one vision systems. Machine vision tools for quality assurance are integrated into the Quality Inspection toolset included with the sensor. Nonexpert users can easily configure the sensor in no time through an intuitive web user interface.



Convenient quality assurance since the optics, illumination and Quality Inspection toolset with tools for machine vision are included with delivery.



Snap-in mounting takes just seconds.



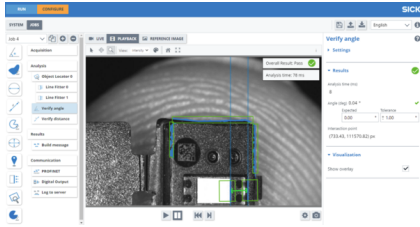
Easily configure the sensor in no time through an intuitive web user interface.



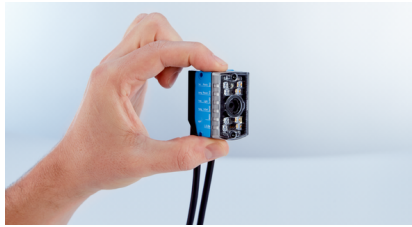
Get started instantly with quick mounting and intuitive web user interface.

Measures fine details, fits into tiny spaces

The InspectorP61x is perfect for inline inspection of parts, assemblies, and finished products. Small- and medium-sized objects or parts of larger objects are easily inspected with the integrated illumination feature. Its small form makes the sensor ideal for machines where space is limited and for robot end-of-arm mounting.



Reliably measures very fine details with super close-ups.



Ultracompact 2D vision sensor fits into tiny mounting spaces.



Perfect for robot end-of-arm mounting.



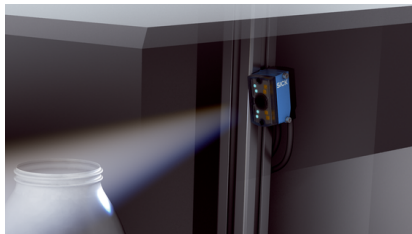
The InspectorP61x works perfectly for the inspection of small- and medium-sized objects and where space is limited.

Variants for every challenge

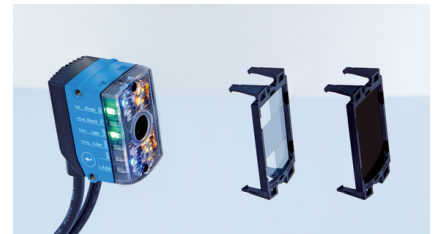
The selection of hardware configurations helps to deliver reliable results even in challenging conditions, to improve productivity and reduce waste.



The liquid lens variant offers convenient, electric focus adjustment with robust IP65 housing for extra-strong protection against dust and water.



The near infrared (NIR) variant doesn't disturb the surroundings with flashing lights and can, for some applications, provide a more suitable contrast.



The many accessories, ranging from optical filters to external illumination, provide solutions in challenging conditions.



InspectorP61x offers a wide selection of hardware configurations that deliver reliable results even in challenging conditions.

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

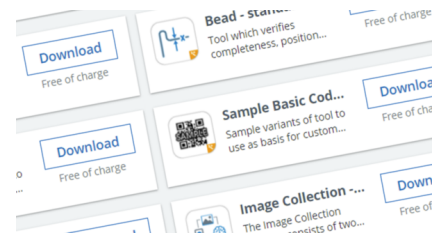
tools for image processing and integration as they need. But the functionality does not end there: With SICK Nova, users can download additional Nova tools or develop their own, allowing them to quickly and conveniently extend functionality to fit the application – without limitations.



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.



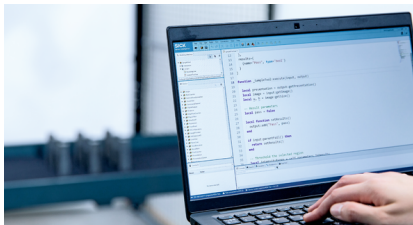
Rapidly handle your applications like never before. Add, combine, and customize tools with ease.

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

Sensor	CMOS matrix sensor, grayscale values
Sensor resolution	1,280 px x 960 px (1.2 Mpixel)
Optical focus	Teach auto focus (liquid lens) / adjustable focus (manually) (depending on type)
Operator interfaces	Web server
Control elements	1 pushbutton
Serial	✓, RS-232
Ethernet	✓, TCP/IP, FTP
EtherNet/IP™	✓
PROFINET	✓, PROFINET Single Port
Configuration software	Web GUI (SensorApp configuration), SICK AppManager (IP determination and configuration, SensorApp installation), SICK AppStudio (programming)
Dimensions	50 mm x 40.3 mm x 29.6 mm

Product description

The InspectorP61x, an industrial ultracompact 2D vision sensor, is perfect for inline inspection of smaller parts, assemblies, and finished products. Its small form makes the sensor useful in applications where space is limited or for robot end-of-arm mounting. The integrated optics and illumination enable the user to tune the light's brightness, color, and shape and obtain high-quality images out of the box. The included Quality Inspection toolset of SICK Nova lets both expert and nonexpert users configure the sensor in no time through an intuitive web user interface. Users can further extend or replace the functionality thanks to a growing collection of SICK Nova Tools and SensorApps from SICK AppPool or through custom development if needed.



At a glance

- Minuscule size
- Integrated high-quality illumination with adjustable color and shape
- Easy inspection of small- and medium-sized objects
- Snap-in mounting done in seconds
- Integrated machine vision tools with Quality Inspection toolset of SICK Nova
- Optional programming with SICK AppSpace or HALCON

Your benefits

- Ultracompact 2D vision sensor fits into tight mounting spaces
- Reliably measures very fine details with super close-ups
- Instant start with quick mounting and intuitive web user interface
- Quick results with integrated tools for handling machine vision tasks
- Addition or extension of tool functionality for customized solutions with SICK Nova
- Exceptional programming flexibility in SICK AppSpace or HALCON
- Flexible production with great options for data and measurement communication
- Deep learning available as licensed option

Fields of application

- Inline quality control for electronics, packaging, and automotive industries
- Manufacturing and assembly verification
- Part localization and measurement
- Detail inspection, counting, and measurement
- Perfect for robot end-of-arm mounting
- Add-ons through other SensorApps such as OCR and code reading

Ordering information

Other models and accessories → www.sick.com/InspectorP61x

- **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, identifying, Position determination, 1D code, 2D code, presence inspection, Quality check, measuring, 2D, OCR
- **Illumination:** integrated
- **Working distance:** 50 mm ... 300 mm
- **Sensor resolution:** 1,280 px x 960 px (1.2 Mpixel)
- **Sensor:** CMOS matrix sensor, grayscale values

Illumination color	Lens	Optical focus	Type	Part no.
Amber Blue	12 mm	Teach auto focus (liquid lens)	V2D611P-MLSCI5	1124942
		Adjustable focus (manually)	V2D611P-MMSCI4	1124949
	6 mm	Teach auto focus (liquid lens)	V2D611P-MLSBI5	1124943
		Adjustable focus (manually)	V2D611P-MMSBI4	1124948
Infrared	12 mm	Adjustable focus (manually)	V2D611P-MMICI4	1124947
	6 mm	Adjustable focus (manually)	V2D611P-MMIBI4	1124946

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