



# Inspector85x

Focusing on the big picture

**SICK**  
Sensor Intelligence.

## Advantages

### Go one step further with SICK Nova

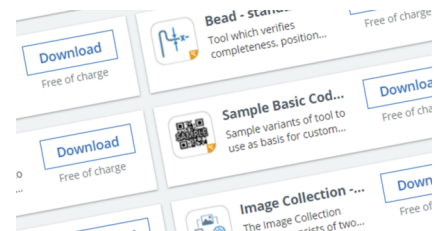
Machine vision applications are easily handled in a web browser using point-and-click configuration, giving users the freedom to combine tools for image processing and integration as they need. But the functionality does not end there: With SICK Nova, users can download additional Nova tools or develop 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.**

## The latest generation Inspector vision sensor



The state-of-the-art high-resolution imager (up to 12 MP) and powerful illumination provide outstanding details for large objects as well



The fast CPU solves demanding inspection tasks, even at very high process speeds



**Intelligent, fast and versatile. The Inspector85x 2D vision sensor offers a higher speed, higher resolution, and exceptional integration possibilities**



## Technical data overview

<b>Sensor</b>	CMOS matrix sensor, grayscale values
<b>Sensor resolution</b>	2,464 px x 2,048 px (5 Mpixel) 4,096 px x 3,008 px (12 Mpixel)
<b>Optical focus</b>	Adjustable focus (manually)
<b>Lens</b>	C-mount
<b>Optical format</b>	1"
<b>Operator interfaces</b>	Web server
<b>Ethernet</b>	✓, TCP/IP, FTP, EtherNet/IP™ Dual Port, PROFINET Dual Port
<b>Configuration software</b>	Web GUI (SensorApp configuration)
<b>Dimensions</b>	143.3 mm x 90 mm x 46 mm <sup>1)</sup>

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

## Product description

With its fast CPU for high-speed applications, the Inspector85x provides a range of solutions for executing complex inspection tasks. The state-of-the-art high-resolution imager and powerful illumination deliver great image quality for large objects as well. The dual-port fieldbus support ensures flexible, industry-ready integration. The preinstalled SICK Nova InspectorP SensorApp with Quality Inspection toolset enable both expert and nonexpert users to rapidly configure the sensor using an intuitive web interface. With the Intelligent Inspection toolset, users can easily access deep learning tools.

## At a glance

- Powerful quad-core CPU
- Up to 12 megapixel resolution and strong illumination
- Web-based user interface
- Quality Inspection toolset for localization, inspection and measurement
- Optional Intelligent Inspection toolset for classification and anomaly detection
- Dual port fieldbus and high speed I/Os
- Supports SICK Nova, SICK AppSpace and HALCON

## Your benefits

- Solves demanding inspection tasks, even at very high process speeds
- Excellent resolution for inspecting large areas in outstanding detail
- Easy to operate and flexible to use
- Integrated tools for handling advanced machine vision tasks
- AI tools simplify common machine vision tasks and solve complex tasks where rule-based tools are inadequate
- Flexible integration into industrial network or PLC
- SICK Nova tool plug-ins for convenient customization of inspections in Lua script

## Fields of application

- In-line quality inspection in automotive and white goods production lines that require large field of view
- OCR/OCV and quality inspection in packaging lines for consumer goods
- Solder inspection of electronics and automotive components
- Complex and unpredictable defect detection

## Ordering information

Other models and accessories → [www.sick.com/Inspector85x](http://www.sick.com/Inspector85x)

- **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
- **Illumination:** To be ordered separately as accessories
- **Lens:** To be ordered separately as accessories, C-mount
- **Working distance:** 500 mm ... 2,500 mm
- **Sensor:** CMOS matrix sensor, grayscale values
- **Optical focus:** adjustable focus (manually)

Sensor resolution	Type	Part no.
2,464 px x 2,048 px (5 Mpixel)	V2D8505P-1MCXXXAFOSXXX	1139001
4,096 px x 3,008 px (12 Mpixel)	V2D8512P-1MCXXXAFOSXXX	1139003

- **SensorApp:** Nova InspectorP
- **License included:** Intelligent Inspection License
- **Products by tasks:** classification
- **Illumination:** To be ordered separately as accessories
- **Lens:** To be ordered separately as accessories, C-mount
- **Working distance:** 500 mm ... 2,500 mm
- **Sensor:** CMOS matrix sensor, grayscale values
- **Optical focus:** adjustable focus (manually)

Sensor resolution	Type	Part no.
2,464 px x 2,048 px (5 Mpixel)	V2D8505P-1MCXXXAFOSXXX	1139002
4,096 px x 3,008 px (12 Mpixel)	V2D8512P-1MCXXXAFOSXXX	1139004

## 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)