

InspectorP65x

Configurable. Programmable. Top performer. Long-range.



2D MACHINE VISION

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Advantages



Go one step further with SICK Nova

The Quality Inspection SensorApp based on 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 Choose the right sensor for the applicaat your fingertips.

tion 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.



rApps and Nova tools that can run directly on all InspectorP devices.



Use SICK AppStudio for developing Senso- 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.



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.

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Sensor	CMOS matrix sensor, grayscale values		
Sensor resolution	2,048 px x 1,088 px (2.1 Mpixel) 2,048 px x 2,048 px (4.2 Mpixel)		
Light source			
Internal lighting	To be ordered separately as accessories LED, Visible, White, 6,000 K, \pm 500 K		
Adjustment aid	Laser, Visible, Red, 630 nm 680 nm LED, Visible, blue, 455 nm		
	LED, Visible, green, 525 nm, ± 15 nm		
	Laser, Visible, Red, 630 nm 680 nm		
Optical focus	Adjustable focus / dynamic focus control $% \left(depending on type \right)$		
Lens	C-mount		
Optical format	1"		
Operator interfaces	Web server		
Control elements	2 buttons		
Serial	✓, RS-232, RS-422		
Ethernet	✓, TCP/IP, FTP, HTTP		
CAN	✓, SICK CAN sensor network (master/slave)		
EtherNet/IP™	✓		
PROFINET	✓, PROFINET Single Port, PROFINET Dual Port (optional via external connection module CDF600-2)		
Configuration software	SICK AppStudio		
Dimensions	142 mm x 90 mm x 46 mm ¹⁾ 142.8 mm x 90 mm x 106.1 mm		

¹⁾ Only housing without lens and protective hood.

Technical data overview

Product description

The InspectorP65x is an industrial programmable and configurable 2D vision camera for long-range and high-resolution vision tasks. Boasting image resolutions of 2-4 megapixels, an IP 65 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 2.1 and 4.2 megapixels
- · Configuration of SensorApps in a web browser
- Programming of new SensorApps in SICK AppStudio
- Flexible C-mount lenses and integrated illumination
- · Laser alignment aid, beeper and feedback spot
- Includes HALCON runtime license and SICK Algorithm Library

Your benefits

- Flexible optical design and high-power lighting enable long-distance and large FOV setups
- Easy start for anyone with the pre-installed Quality Inspection SensorApp
- 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/InspectorP65x

- · Products by tasks: presence inspection, quality inspection, measuring, 2D, positioning
- Sensor: CMOS matrix sensor, grayscale values

Internal lighting	Lens	Sensor resolution	Optical focus	Туре	Part no.
	To be ordered separately as accessories, C-mount	2,048 px x 1,088 px (2.1 Mpixel)	Adjustable focus	V2D652P-2MCXXA6	1082303
		2,048 px x 2,048 px (4.2 Mpixel)	Adjustable focus	V2D654P-2MCXXA6	1082304
White, blue	-	2,048 px x 1,088 px (2.1 Mpixel)	Dynamic focus control	V2D652P-2MEWHA6	1082305
		2,048 px x 2,048 px (4.2 Mpixel)	Dynamic focus control	V2D654P-2MEWHA6	1082306

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



Online data sheet

