PRODUCT OVERVIEW

Vision

A NEW DIMENSION IN VISION

2D vision, 3D vision, Sensor Integration Machine

SICK
Sensor Intelligence.

MORE THAN A VISION

In industrial environments, providing an effective solution to capture reality requires more than just a vision. With SICK you have the choice. Multiple dimensions, one philosophy: customer needs come first. Even in the face of the most challenging requirements, SICK supports you to realize your vision. Our broad 2D and pioneering 3D vision portfolio based on decades of innovation leadership helps customers worldwide. Positioning, inspection, measuring and reading – all at the same time, if needed. Our global technology experts are specialists in your industry and are located in your corner of the world. SICK's vision sensors see your world as it truly is.

➜ www.sick.com/more-than-a-vision

There is never only one answer to intelligent questions. The best technology depends on the task at hand.

For every application, the same question is asked: Which technology is best? The best possible solution is always tailored to the individual technical and economic conditions of the application.

SICK offers a broad portfolio of vision products ranging from easy-to-use configurable sensors and programmable flexible cameras to high-speed streaming cameras to meet the toughest of requirements. To minimize complexity, cost, and risks during the implementation of programmable vision solutions, you can access sophisticated SICK-developed functions and the comprehensive HALCON machine vision library via SICK AppSpace. The Sensor Integration Machine prepares vertical integration for Industry 4.0. As a result, established modules give rise to perfectly tailored, new solutions that are suitable for Industry 4.0 tasks, like quality control, track and trace, object data collection and predictive maintenance events.

Configurable sensors

Configurable vision sensors make it quick and easy to set up parameters. Thanks to integrated image processing, the vision sensor works independently and provides results as an output.

Programmable cameras

Programmable cameras facilitate high flexibility, and work independently without a PC. They have integrated image processing, and deliver results as output.

Streaming cameras

Streaming cameras provide continuous data acquisition for external image processing on a PC. With a variety of data generation options, including 2D and 3D images, they offer maximum flexibility.

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2D vision

SICK offers a powerful vision sensor portfolio designed to manage challenges in all industries where a standard sensor would not work. These vision sensors provide a full toolset for positioning, inspection, measurement and reading, depending on the variant. A flexible optical design fulfills the needs of almost all applications. Simplicity is ensured by automatic setup, intelligent algorithms and a common, intuitive user interface.

3D vision

SICK's 3D vision series offers a wide range of powerful and flexible products designed for reliable operation in harsh industrial environments. They range from versatile high-speed cameras that deliver high quality 3D and contrast images to smart and configurable stand-alone sensors that facilitate rapid development and easy integration. Their scalability ensures a perfect fit with your 3D vision application.

Sensor Integration Machine (SIM)

The Sensor Integration Machine (SIM) product family – part of the SICK AppSpace eco-system – is opening up new possibilities for application solutions. Data from SICK sensors and cameras can be merged, evaluated, archived, and transmitted. The portfolio features a scaled range of processing power levels and sensor connection numbers. As a result, the SIM family has the right solution to suit any application requirement.

OVERVIEW OF VISION SENSORS

Product		Product group			Main tasks				Color inspection	
		Configurable	Programmable	Streaming	Positioning	Inspection	Measuring	Reading		
2D vision										
	Inspector	■			■	■	■			
	Lector62x	■						■		
	Lector63x	■						■		
	Lector64x	■						■		
	Lector65x	■						■		
	InspectorP63x		■		■	■	■	■		
	InspectorP64x		■		■	■	■	■		
	InspectorP65x		■		■	■	■	■		
	picoCam			■	■ [1]	■ [1]	■ [1]	■ [1]	■ [1]	
	midiCam			■	■ [1]	■ [1]	■ [1]	■ [1]	■ [1]	
3D vision										
	TriSpector1000	■			■	■	■			
	IVC-3D		■		■	■	■	■		
	Ranger			■	■ [1]	■ [1]	■ [1]		■ [1]	
	Ruler			■	■ [1]	■ [1]	■ [1]			
	ScanningRuler			■	■ [1]	■ [1]	■ [1]			
	Visionary-T			■	■ [1]	■ [1]	■ [1]			
Sensor Integration Machine										
	SIM4000		■		■	■	■	■	■	

[1] In combination with a processing unit (e.g. SIM4000).

8013117/2016-12-09

	Technology				SICK AppSpace	Communication interfaces			Sensor resolution	Page
	2D matrix	3D laser triangulation	3D time-of-flight (TOF)	Snapshot		Serial	Ethernet	Fieldbuses		
	■			■			■	■	< 1 Mpixel	→ 6
	■			■		■	■	■	< 1 Mpixel	→ 6
	■			■		■	■	■	1.3 ... 1.9 Mpixel	→ 7
	■			■		■	■	■	1.7 Mpixel	→ 7
	■			■		■	■	■	2.1 ... 4.2 Mpixel	→ 7
	■			■	■	■	■	■	1.3 ... 1.9 Mpixel	→ 8
	■			■	■	■	■	■	1.7 Mpixel	→ 8
	■			■	■	■	■	■	2.1 ... 4.2 Mpixel	→ 9
	■			■			■		1.3 ... 4.2 Mpixel	→ 9
	■			■			■		1.3 ... 1.9 Mpixel	→ 9
		■				■	■	■	790 px	→ 10
		■				■	■	■	1,536 px	→ 10
		■				■	■		512 ... 1,536 px	→ 10
		■				■	■		1,024 ... 1,536 px	→ 11
		■		■		■	■		756 px	→ 11
			■	■			■		176 px x 144 px	→ 11
					■	■	■	■		→ 12

	 **Inspector**	 **Lector62x**	
	An intelligent vision solution in an easy-to-use sensor package.	Clever. Simple. Industrial.	
Technical data overview			
Task	Positioning, inspection, measuring	Reading	
Sensor	CMOS matrix sensor, grayscale values	CMOS matrix sensor, grayscale values	
Optical format	1/3”	1/3”	
Sensor resolution	384 px x 384 px 640 px x 480 px	752 px x 480 px (WVGA)	
Light source	White / White dome light / UV / Infrared	Red / Blue / Infrared	
Focus	Adjustable focus (manually)	Adjustable focus (electrically) Teach auto focus	
Lens	Integrated Replaceable (M12-mount)	Integrated	
Operator interfaces	Inspector Viewer, Web server	Web server	
Operating elements	–	2 buttons (choose and start/stop functions)	
Configuration software	SOPAS ET	SOPAS ET	
Serial (RS-232, RS-422)	–	✔	
USB	–	✔ , USB 2.0	
Ethernet	✔ , 100 MBit/s TCP/IP, EtherNet/IP, EtherCAT	✔ , 10/100 MBit/s TCP/IP, FTP (image transmission), PROFINET, EtherNet/IP, EtherCAT® (optional over external fieldbus module CDF600)	
CAN bus	–	✔ , CANopen, CSN (SICK CAN Sensor Network)	
PROFIBUS DP	–	✔ , optional over external fieldbus module (CDF600-2)	
Dimensions	100 mm x 53 mm x 38 mm	71 mm x 43 mm x 35.6 mm	
At a glance			
	• High-speed positioning, inspection and measuring • Powerful “object locator” tool, independent of position, rotation and scale • Unique, interchangeable housing design supporting dome and various optical accessories • Simple step-by-step configuration in PC including emulator • Easy-to-use operator interfaces • Flexible machine and HMI design interfaces	• Decoding of all common 1D, 2D, and stacked codes, as well as optical character recognition (depending on type) • Flexible interfaces: serial interface, USB, and Ethernet • Function buttons, aiming laser, focus adjustment, auto-setup, and green feedback LED • Industrial, compact housing with swivel connector • MicroSD memory card for storing images and backup copies of parameters	
Detailed information	**➜ www.sick.com/Inspector**	**➜ www.sick.com/Lector62x**	

8013117/2016-12-09
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	Lector63x	Lector64x	Lector65x
			
	Intelligent. Flexible. Intuitive.	High efficiency for code reading applications	Nonstop code reading flexibility
	Reading	Reading	Reading
	CMOS matrix sensor, grayscale values	CMOS matrix sensor, grayscale values	CMOS matrix sensor, grayscale values
	1/1.8”	2/3”	1”
	1,280 px x 1,024 px 1,600 px x 1,200 px	1,600 px x 1,088 px	2,048 px x 1,088 px 2,048 px x 2,048 px
	White / Blue	White / Blue / Red	White / Blue / Red
	Adjustable focus (manually)	Adjustable focus (manually)	Adjustable focus (manually) Dynamic focus control
	C-mount or S-mount, replaceable, integrated for pre-assembled devices	C-mount, replaceable	C-mount, replaceable, dynamic focus with integrated optics and illumination
	Web server	Web server	Web server
	2 buttons (choose and start/stop functions)	2 buttons (choose and start/stop functions)	2 buttons (choose and start/stop functions)
	SOPAS ET	SOPAS ET	SOPAS ET
	✔	✔	✔
	✔ , USB 2.0	✔ , USB 2.0	✔, USB 2.0
	✔ , 10/100/1,000 MBit/s TCP/IP, FTP (image transmission), EtherNet/IP, PROFINET (optional over external fieldbus module CDF600-2)	✔ , 10/100/1,000 MBit/s TCP/IP, FTP (image transmission), EtherNet/IP, PROFINET	✔ , 10/100/1,000 MBit/s TCP/IP, FTP (image transmission), EtherNet/IP, PROFINET
	✔ , CSN (SICK CAN Sensor Network)	✔ , CSN (SICK CAN Sensor Network)	✔ , CSN (SICK CAN Sensor Network)
	✔ , optional over external fieldbus module (CDF600-2)	✔ , optional over external fieldbus module (CDF600-2)	✔ , optional over external fieldbus module (CDF600-2)
	108 mm x 63.1 mm x 45.8 mm (only housing without lens and protective hood)	142 mm x 89 mm x 46 mm (only housing without lens and protective hood)	142 mm x 89 mm x 46 mm (only housing without lens and protective hood)
	• Code reader with 2 megapixel sensor • Flexible optics and filter design • Integrated, changeable high-power lighting • Intuitive user interface, including flexible result string with code analytics options • Function buttons, aiming laser, beeper and feedback indicator • MicroSD card	• 1,7 megapixel resolution; high frame repetition rate of 40 Hz • Integrated high-power LED illumination • Function buttons, aiming laser, optical and audible feedback signal • Intelligent, rapid decoding algorithms	• 2/4 megapixel resolution; high frame repetition rate of 40 up to 70 Hz • Dynamic focus adjustment from object to object • Integrated high-power LED illumination • Function buttons, aiming laser, optical and acoustic feedback signal • Intelligent, rapid decoding algorithms
	→ www.sick.com/Lector63x	→ www.sick.com/Lector64x	→ www.sick.com/Lector65x

			
	InspectorP63x	**InspectorP64x**	
	Programmable. Compact. Versatile.	Programmable. Cost-efficient. High-speed.	
Technical data overview			
Task	Positioning, inspection, measuring, reading	Positioning, inspection, measuring, reading	
Sensor	CMOS matrix sensor, grayscale values	CMOS matrix sensor, grayscale values	
Optical format	1/1.8”	2/3”	
Sensor resolution	1,280 px x 1,024 px (1.3 Mpixel) 1,600 px x 1,200 px (1.9 Mpixel)	1,600 px x 1,088 px (1.7 Mpixel)	
Light source	White / Blue	White / Blue / Red	
Focus	Adjustable focus	Adjustable focus	
Lens	C-mount or S-mount, replaceable, integrated for pre-assembled devices	C-mount, replaceable	
Operator interfaces	Web server	Web server	
Operating elements	2 buttons	2 buttons	
Configuration software	SICK AppStudio	SICK AppStudio	
Serial (RS-232)	✔ (2)	✔ (2)	
Ethernet	✔ , 10/100/1,000 MBit/s TCP/IP, FTP, HTTP	✔ , 10/100/1,000 MBit/s TCP/IP, FTP, HTTP	
CAN bus	✔ , CSN (SICK CAN Sensor Network)	✔ , CSN (SICK CAN Sensor Network)	
Dimensions	108 mm x 63 mm x 46 mm (only housing without lens and protective hood)	142 mm x 89 mm x 46 mm (only housing without lens and protective hood)	
At a glance			
	• 1.3 and 1.9 MP programmable 2D cameras • Flexible S- and C-mount lenses and integrated illumination • 4D*pro* interfaces • Aiming laser, beeper and feedback spot • Powered by HALCON library • Scripted in SICK AppStudio • Web operator interface	• 1.7 MP programmable 2D cameras • Flexible C-mount lens and integrated illumination • 4D*pro* interfaces • Aiming laser, beeper and feedback spot • Powered by HALCON library • Scripted in SICK AppStudio • Web operator interface	
Detailed information	➜ www.sick.com/InspectorP63x	➜ www.sick.com/InspectorP64x	

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	InspectorP65x	**picoCam**	**midiCam**
	Programmable. Top performer. Long-range.	Ultra-compact, industrial streaming cameras with GigE interface	Rugged, industry-grade streaming cameras with GigE interface
	Positioning, inspection, measuring, reading	Positioning, inspection, measuring, reading	Positioning, inspection, measuring, reading
	CMOS matrix sensor, grayscale values	CMOS Mono / CMOS Color	CMOS Mono / CMOS Color
	1”	1/1.8” 1/1.2” 1”	1/1.8”
	2,048 px x 1,088 px (2.1 Mpixel) 2,048 px x 2,048 px (4.2 Mpixel)	1,280 px x 1,024 px (1.31 Mpixel, 5:4, SXGA) 1,600 px x 1,200 px (1.92 Mpixel, 4:3, UXGA) 1,936 px x 1,216 px (2.35 Mpixel, 16:10, 2 MP) 2,048 px x 2,048 px (4.19 Mpixel, 1:1, 4 MP)	1,280 px x 1,024 px (1.31 Mpixel, 5:4, SXGA) 1,600 px x 1,200 px (1.92 Mpixel, 4:3, UXGA)
	White / Blue / Red	–	–
	Adjustable focus Dynamic focus control	–	–
	C-mount, replaceable, dynamic focus with integrated optics and illumination	C-mount	C-mount
	Web server	–	–
	2 buttons	–	–
	SICK AppStudio	I2D Software Suite	I2D Software Suite
	✔ (2)	–	–
	✔ , 10/100/1,000 MBit/s TCP/IP, FTP, HTTP	✔ , 1,000 MBit/s UDP	✔ , 1,000 MBit/s UDP
	✔ , CSN (SICK CAN Sensor Network)	–	–
	142 mm x 89 mm x 46 mm (only housing without lens and protective hood)	40.5 mm x 29 mm x 29 mm	44.7 mm x 53 mm x 41 mm
	• 2.1 and 4.2 MP programmable 2D cameras • Flexible C-mount lens and integrated illumination • 4D*pro* interfaces • Aiming laser, beeper and feedback spot • Powered by HALCON library • Scripted in SICK AppStudio • Web operator interface	• Ultra-compact housing • Power over Ethernet (PoE) • Wide-range voltage supply 12 V DC ... 24 V DC • Screw-fit RJ45 GigE interface • Screw-fit Hirose plug connector for the voltage supply and digital inputs and outputs • Color, monochrome, and NIR variants • Connection for C-mount lenses	• Rugged housing with IP 67 enclosure rating • Power over Ethernet (PoE) • Wide-range voltage supply 12 V DC ... 24 V DC • M12 plug connector for the GigE interface • M12 plug connector for the voltage supply and digital inputs and outputs • Color, monochrome, and NIR variants • Connection for C-mount lenses
	➜ www.sick.com/InspectorP65x	➜ www.sick.com/picoCam	➜ www.sick.com/midiCam

	 **TriSpector1000**	 **IVC-3D**	 **Ranger**	
	Intuitive 3D inspection	Advanced 3D vision made easy	Fast 3D measurement and MultiScan for advanced industrial solutions	
Technical data overview				
Task	Positioning, inspection, measuring	Positioning, inspection, measuring, reading	Positioning, inspection, measuring	
Technology	3D, LineScan, image analysis	3D, LineScan, image analysis	3D, LineScan, MultiScan, color	
Scan / frame rate	2,000 3D profiles/s	5,000 3D profiles/s	35,000 3D profiles/s	
Grayscale measurements	✔	–	✔ / –	
Color measurements	–	–	Red / Green / Blue / mono-chrome (without IR content) / near infrared (approx. 750 nm ... 950 nm)	
Light source	Visible red light (laser, 660 nm)	Visible red light (laser, 658 nm, ± 15 nm)	–	
Scatter measurement	–	–	✔ / –	
Factory calibrated	✔	✔	–	
Enclosure rating	IP 67	IP 65 / IP 67	IP 20	
Configuration software	SOPAS ET	IVC Studio	Ranger Studio, iCon API (C / C++)	
At a glance				
	• 3D inspection of moving parts • Intuitive user interface • Embedded image analysis • Easy replacement concept • High resolution 3D image with intensity overlay • Factory calibrated 3D data, true mm values in all dimensions • Rugged IP 67 metal housing	• Easy 3D measurement – provides information about object height, shape and volume • Independent of object contrast and color • Easy-to-use graphical user interface for fast application development • Simple connection of PLCs, robots, and other control systems, e.g., those using Ethernet/IP or OPC • Scans up to 5,000 profiles per second • Industrial, rugged metal housing	• Fast 3D measurement at high speed and quality • MultiScan function for simultaneously measuring the 3D shape, contrast, color, and scatter • Sensor resolutions of up to 1,536 pixels in 3D and 3,072 pixels in grayscale and color • High levels of flexibility in configuration, working distance, and field of view • In-machine 3D calibration • Gigabit Ethernet interface	
Detailed information	➜ www.sick.com/TriSpector1000	➜ www.sick.com/IVC-3D	➜ www.sick.com/Ranger	

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	Ruler	ScanningRuler	Visionary-T
			
	Gigabit 3D vision for tough environments	Reliable and precise 3D snapshot for large field of view	3D snapshot – for versatile use indoors
	Positioning, inspection, measuring	Positioning, inspection, measuring	Positioning, inspection, measuring
	3D, LineScan	3D snapshot	3D snapshot, image analysis
	10,000 3D profiles/s	2.5 s per 3D image	0.03 s per 3D image (30 fps)
	✔	✔	✔
	–	–	–
	Visible red light (laser, 660 nm, ± 15 nm)	Visible red light (laser, 660 nm, ± 15 nm)	Invisible infrared light (LED, 850 nm)
	✔ / –	–	–
	✔	✔	✔
	IP 65	IP 65	IP 67
	Ranger Studio, iCon API (C / C++)	Ranger Studio, iCon API (C / C++)	SOPAS, API (Java, Matlab), Webserver, Telegram listing (universal use, e.g. Python, C++, C#), visualization also possible via ROS
	• Factory-calibrated 3D measurements in millimeters at full production speed • Highly accurate 3D measurements for widths from 100 mm up to 1.5 m • Capture 3D, grayscale, and scatter simultaneously • Easy to integrate without the need for external illumination • Rugged housing for harsh environments and temperatures as low as –30 °C • Remote operation over long cabling distances with Gigabit Ethernet	• 3D imaging of stationary objects • Large field of view for scanning U.S. and Euro pallets • Accurate and reliable acquisition of factory-calibrated 3D data in millimeters • High immunity to ambient light and contrast variation • Rugged housing with built-in laser light source • Point cloud 3D data with grayscale information	• Record up to 30 3D images per second • Distance values: 144 x 176 pixels per snapshot • Output 3D data via a Gigabit Ethernet interface • Depth reproducibility of 3 mm and 30 mm at 1 m and 7 m distances respectively • Temperature range: 0 °C to 50 °C or up to 45 °C (depending on the housing), enclosure rating: IP 67; light sensitivity: 0 klx ... 50 klx
	➜ www.sick.com/Ruler	➜ www.sick.com/ScanningRuler	➜ www.sick.com/Visionary-T

SIM4000

Flexible. Intelligent. Communicative.

Technical data overview	
Supported products	Vision sensors Encoder Identification solutions Detection and ranging solutions Trigger sources
Serial (RS-232, RS-422)	✔ (2) , also configurable as an encoder port. RS-232, RS-422 configurable via termination resistor which can be activated.
Ethernet	✔ (8), TCP/IP, FTP (image transmission), GigE, GenICam
Encoder	✔ (2) , max. 2 MHz
Fieldbus	✔ (2) , Ethernet-based, PROFINET, EtherNet/IP, EtherCAT
CAN	✔ (2), CSN (SICK CAN Sensor Network)
IO-Link	✔ (4), IO-Link Master 1.1
USB	✔
Inputs/outputs	
I/O	4 opto-decoupled inputs, 7 inputs/outputs (configurable)
S1-S4	In each case 1 input, in each case 1 input/output (configurable)
S5-S8	In each case 1 input, in each case 2 inputs/outputs (configurable)
Enclosure rating	IP 65

At a glance

- Wide range of connections with 25 interfaces for Ethernet-based fieldbuses, cameras, illumination, sensors, encoders, and more besides
- 10-gigabit Ethernet interfaces for rapid image transmission
- Precise synchronization of input and output signals
- Illumination control and supply
- IO-Link master connections
- Enclosure rating IP 65

Detailed information → www.sick.com/SIM4000

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EASY INTEGRATION INTO YOUR AUTOMATION WORLD

Sensor integration with SICK is easy and fast for you: Our intelligent sensor solutions and safety controllers provide different integration technologies which allow easy access – from HMI, PLC, and engineering tools – to data from our sensors. In this way, we support you towards solving your application rapidly and easily and increase machine reliability with a continuous diagnostic concept.

PLC and engineering tool integration

Function Blocks	
IO-Link devices Level sensors Pressure sensors Presence detection sensors Distance sensors	**Bar code scanners, Image-based code readers** 1D und 2D
Vision sensors Inspector	**RFID** RFH6xx RFU62x, RFU63x
Absolute encoders AFS60/AFM60	**Laser volume flowmeter** Bulkscan® LMS511

Function blocks

The SICK function blocks quickly allow you to establish acyclic communication to our sensors within your PLC program. Additionally, complex and variable process data can be parsed into their individual information contents without programmer effort.

DTM (Device Type Manager)

FDT/DTM is a cross-manufacturer concept, with which configuration and diagnosis of devices from different manufacturers can be done with just one engineering tool.

TCI (Tool Calling Interface)

The Tool Calling Interface (TCI) makes it possible to call up a tool used to carry out parameterization and diagnosis of a field device via the existing communication infrastructure.

HMI integration

OPC server

OPC technology is used to exchange data between field devices and Windows-based applications. The SOPAS OPC server from SICK follows the OPC DA specification and thus can be used on Windows operating systems.

Web server

The SOPAS web server from SICK can be used everywhere, where a web browser is available. The web server is distinguished by its ability to both carry out pure data exchange and also to provide visualizations for the devices, which is a big advantage, particularly for vision sensors.

Fieldbus Communication Interface

Our fieldbus and network solutions allow SICK sensors and safety controllers to be connected to all conventional automation systems. This guarantees an easy and fast access to the available data.

→ www.sick.com/industrial-communication

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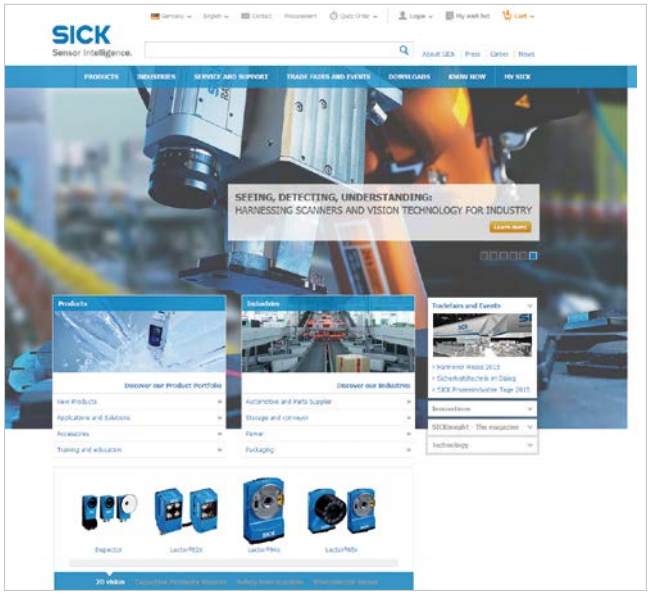
- ☑ Conveniently export quotations and orders to work with your systems.



SERVICES FOR MACHINES AND SYSTEMS: SICK LifeTime Services

Our comprehensive and versatile LifeTime Services are the perfect addition to the comprehensive range of products from SICK. The services range from product-independent consulting to traditional product services.

Consulting and design
Safe and professional

Product and system support
Reliable, fast and on-site

Verification and optimization
Safe and regularly inspected

Upgrade and retrofits
Easy, safe and economical

Training and education
Practical, focused and professional

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SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 7,400 employees and over 50 subsidiaries and equity investments as well as numerous agencies worldwide, we are always close to our customers. 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 various 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 round out 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:

Australia, Austria, Belgium, Brazil, Canada, Chile, China, Czech Republic, Denmark, Finland, France, Germany, Great Britain, Hungary, India, Israel, Italy, Japan, Malaysia, Mexico, Netherlands, New Zealand, Norway, Poland, Romania, Russia, Singapore, Slovakia, Slovenia, South Africa, South Korea, Spain, Sweden, Switzerland, Taiwan, Thailand, Turkey, United Arab Emirates, USA, Vietnam.

Detailed addresses and further locations → www.sick.com

SICK
Sensor Intelligence.