MORE THAN A VISION

INTELLIGENT QUESTIONS HAVE MORE THAN ONE ANSWER

Our identification solutions

SICK
Sensor Intelligence.

ONE PARTNER – THREE DIMENSIONS

RFID, laser-based bar code scanners, and image-based code readers: To provide genuinely efficient solutions for identification tasks, you need more than just one type of technology. With SICK you have the choice: For decades, SICK has been a pioneer in vision solutions, a market leader in industrial code reading, and an innovator of RFID technology. Whether used individually or combined in an application – SICK employs three technologies to provide reliable and efficient solutions to your identification tasks. And, one thing's for certain – your requirements come first.
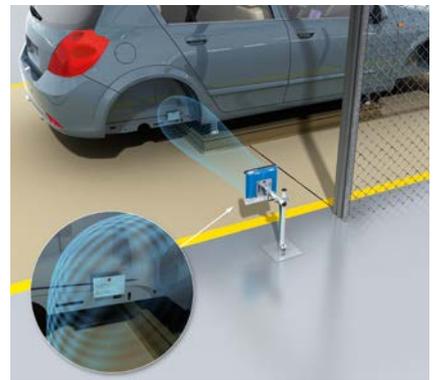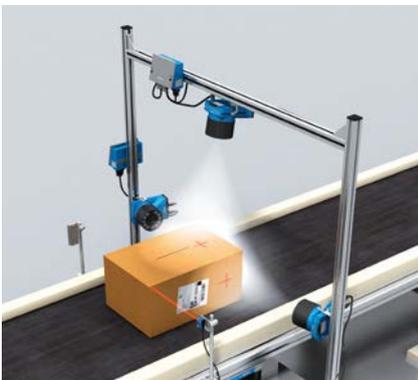
We offer the right solution for every requirement: image-based code readers, laser-based bar code scanners, and RFID technology.

As a global company, we are at your side. Our services comprise accurate analysis of your requirements, technical and systems expertise, strong products, and comprehensive local support – wherever you are in the world.

As the market leader in automated identification, SICK can advise you on finding the right technology for your application. Whether laser, camera, or RFID: All three technologies can be combined in one system if required. You can obtain complete system solutions and customized combinations direct from SICK. What's more, you can combine our identification technologies and enhance them with additional sensors from our extensive SICK portfolio – providing you with a customized solution from a single source. And what if your requirements change? No problem. Thanks to their modular architecture, our systems are flexible and can be expanded and adapted to any new task.

The best solution is always individually and precisely tailored to your requirements. With SICK, your visions become reality.

# YOUR ADVANTAGE: THREE TECHNOLOGIES FOR ANY APPLICATION

RFID

- Reliable identification of concealed or contaminated objects, as no visual contact with the RFID tag is necessary
- Identification of large objects with undefined tag position due to large reading distances and reading field widths
- Reads and writes data
- High level of counterfeit protection and data protection due to encrypted data transmission

Image-based code readers

- Flexible reading of various code types, regardless of the code alignment (360°)
- Monitoring of code qualities to optimize processes by using code analytics in the device
- Subsequent image analysis as images of identified objects are stored
- Reading, evaluation, and analysis of severely damaged codes due to corrective image processing algorithms

Laser-based bar code scanners

- Code identification at various distances and with different object sizes due to a large depth of field with just one device
- A single device also provides coverage of wide reading areas due to a large aperture angle
- High read stability even in varying ambient light due to outstanding ambient light immunity
- Low commissioning costs as auto-focus function means setup couldn't be simpler

4Dpro – ONE CONCEPT FOR ALL TECHNOLOGIES

To provide you with the flexibility you need, SICK has developed a concept enabling you to interchange and network our identification sensors across all the different technologies. Whichever solution you choose, you can be sure of a flexible future with the 4Dpro platform from SICK:

- Standardized connectivity and cloning function for flexible device replacement
- Low level of training required thanks to standardized configuration software and user interface
- Standardized accessories concept for a compact choice of components

SERVICES, SYSTEMS, AND TAILORED SOLUTIONS

Three visions – one guarantee

Based on over 70 years of practical experience, SICK offers standardized services for a fixed price, such as regular performance checks to prevent unwanted downtime. Professional commissioning and maintenance of devices ensures optimum performance. With an extended warranty, customers can even secure their investment for up to five years. Customer-specific services such as pre-configuration, upgrades, engineering, and training complete the service portfolio.

Three visions – one system

Thanks to their modular architecture, sensor systems from SICK can be expanded flexibly and adapted to your requirements. Whether laser, camera, or RFID: All three technologies can be brought together in one system solution if required. In such cases, the customer interface is completely independent of the technology used. This means that various reading tasks and optical identification procedures can be completed with one system. These include top reading with image-based code readers, side reading with a laser scanner and sensors from the Lector® series, or the ability to detect totes and perform optical identification at the same time with the aid of RFID.

Tailored sensor functions with SICK AppSpace

Finding an identification solution that's tailored to your requirements – sounds time-consuming and difficult, or even impossible, doesn't it? Not if you decide on the SICK AppSpace eco-system, which can even be combined with your application as an option. Here, application developers define the solution themselves: Intelligent software tools, high-performance programmable devices, and a dynamic developer community create a solid foundation for designing customized sensor solutions. This enables completely new and adaptive solutions for automation applications.

➔ www.sick.com/SICK_AppSpace
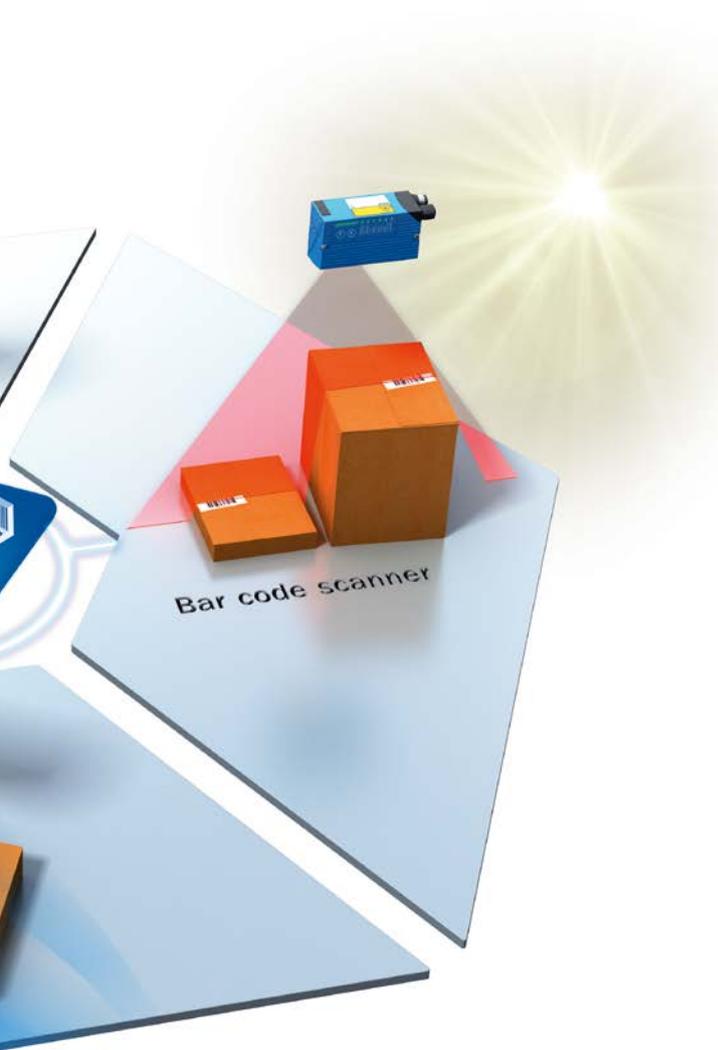
IMAGE-BASED CODE READERS

Lector62x

- Stable reading of challenging DPM codes (e.g., dot-peened, on metal, weak contrast)
- Very low space requirements thanks to compact design
- Swivel connector ensures flexible and simple mounting
- Infrared version without flashing light that can be irritating for workers
- Key industries: electronics, solar, automotive and parts supplier, consumer goods

➔ www.sick.com/Lector62x

Lector63x

- Stable reading of challenging DPM codes (e.g., dot-peened, on metal, weak contrast)
- Flexible optical design also satisfies varying application requirements
- High object throughput thanks to high computing power
- Easy installation due to pre-assembled device variants
- Key industries: automotive and parts supplier, consumer goods, intralogistics

➔ www.sick.com/Lector63x

Lector64x/65x

- Stable reading of difficult-to-read DPM codes (e.g., dot-peened, on metal, weak contrast)
- Maximum object throughput thanks to high computing power, large field of view, and high-resolution sensor
- Is able to cope with large differences in object height due to high depth of field and dynamic focus
- Key industries: intralogistics, courier, express, parcel and postal, airport

➔ www.sick.com/Lector64x
➔ www.sick.com/Lector65x
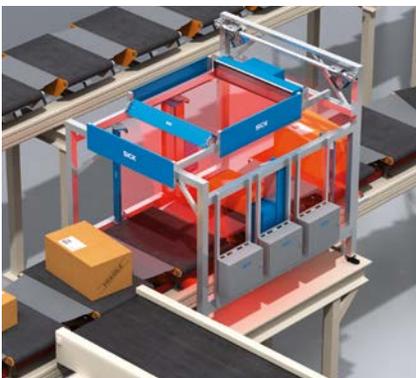
ICR89x

- Stable reading of challenging codes (e.g., weak contrast)
- Maximum throughput thanks to belt speeds up to 3.8 m/s and small gaps between objects
- Detection of hazardous materials and 2D dimensioning of objects
- Is able to cope with large differences in object height and object shape due to dynamic focus
- Volume measurement and 6-sided reading due to combination with other products in an integrated network
- Key industries: intralogistics, postal applications

➔ www.sick.com/ICR89x

BAR CODE SCANNERS
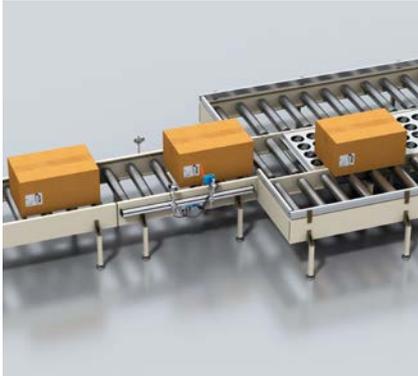
CLV61x Dual Port/62x/63x

- CLV61x Dual Port: integrated PROFINET with two connections for line and ring topologies, perfectly tailored to the requirements of intralogistics
- CLV62x: small, high-performance design for logistics applications
- CLV63x: high reading performance with improved reading of damaged codes for versatile use in storage and conveyor applications

➔ www.sick.com/CLV61x_Dual_Port
➔ www.sick.com/CLV62x
➔ www.sick.com/CLV63x

CLV65x

- Huge depth of fields due to auto-focus function in real time
- High level of flexibility for storage and conveyor requirements

➔ www.sick.com/CLV65x

CLV69x

- Optimum reading performance, high-speed processing, and high levels of reading accuracy
- Auto-focus function for height-independent code reading within the reading field
- Integrated tracking for reduced distances between objects and increased throughput without additional costs for system control

➔ www.sick.com/CLV69x

CLV60x/61x/64x

- CLV60x: starter model offering outstanding value for the money and excellent reading performance at short reading distances and with minimal installation space
- CLV61x: bar code reading at greater distances in a compact design
- CLV64x: with dynamic focus and adjustable depth of field for distances from 30 mm to 798 mm

➔ www.sick.com/CLV60x
➔ www.sick.com/CLV61x
➔ www.sick.com/CLV64x

RFID

RFH6xx

- Scanning ranges of up to 240 mm
- Cost-effective solution in compact design and with integrated antenna
- Supports standard fieldbus systems thanks to universal connectivity
- Integrated signal and data processing for use as an independent unit

➜ www.sick.com/RFH6xx

RFU62x

- Scanning ranges of up to 1 m
- Well-defined and restricted read/write range, making it suitable for identification with smaller gaps between objects, e.g., in storage and conveyor applications

➜ www.sick.com/RFU62x
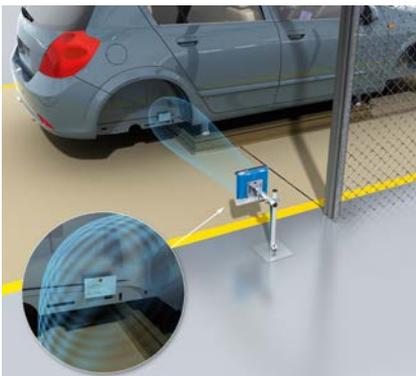
RFU63x

- Scanning ranges of up to 10 m
- For an extremely wide range of applications in the production, logistics, and transport sectors
- Can also be used as a stand-alone solution
- Stable reading performance due to integrated data processing and filtering
- Cloning function for reduced setup time when a device is replaced

➜ www.sick.com/RFU63x
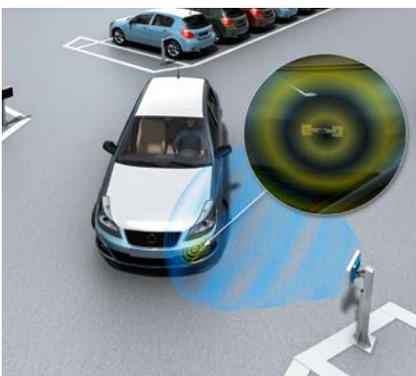
RFU65x

- Integrated entry and direction detection without additional external antennas, saving time and money
- Detection of objects' movement direction, e.g., at receiving goods door

➜ www.sick.com/RFU65x

HAND-HELD SCANNERS

IDM14x/16x

- Reading of 1D bar codes and stacked codes
- Easy to hold thanks to low weight and ergonomic design
- Cabled and wireless versions providing an optimum solution for the application in question
- Perfect solution for office automation, warehouses, and logistics

➜ www.sick.com/IDM14x
➜ www.sick.com/IDM16x

IDM24x

- Reading of 1D, 2D, and stacked codes
- Fast code identification in any orientation thanks to integrated matrix camera
- Ergonomic design
- Cabled and wireless versions for a whole host of non-industrial applications

➜ www.sick.com/IDM24x

HW191x, IDM26x

- Reading of 1D, 2D, and stacked codes
- Rugged IP 65 housing for use in adverse ambient conditions
- Compact, easy-to-hold design
- Intuitive operation due to triple read feedback from LED, beeper, and vibration
- For integration into industrial fieldbuses, such as PROFIBUS, PROFINET, and Ethernet TCP/IP

➜ www.sick.com/HW191x
➜ www.sick.com/IDM26x
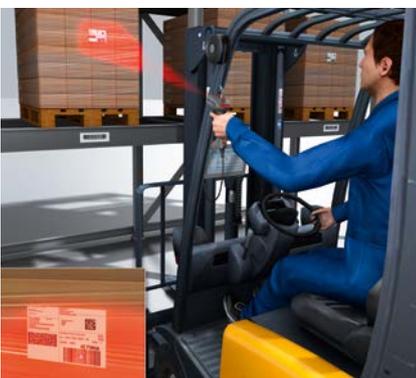
HW198x

- Huge scanning range for reading 1D, 2D, and stacked codes at distances of between 15 cm and 16 m
- Productive scanning in high-bay warehouses or scanning of stacked containers in marshaling yards or pallets that are far away, directly from the manned forklift truck, for example
- Universal device for diverse fields of application
- Cabled and wireless versions for a whole host of non-industrial applications

➜ www.sick.com/HW198x

SICK AT A GLANCE

SICK is a leading manufacturer of intelligent sensors and sensor solutions for industrial applications. With more than 8,000 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, Hong Kong, 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.

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