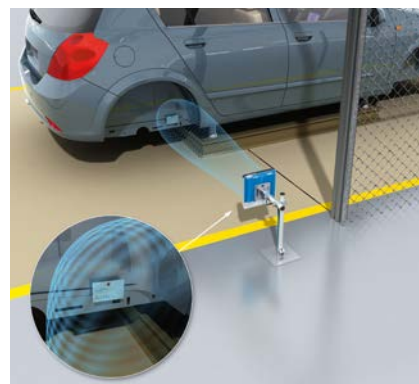
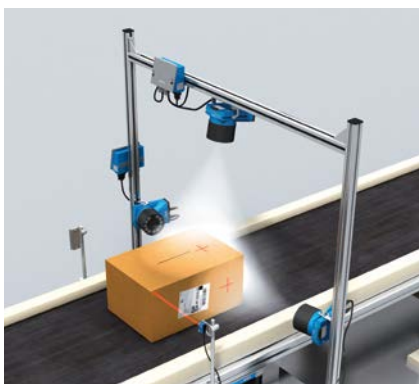




# ONE PARTNER – THREE DIMENSIONS

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.

→ [www.sick.com/more-than-a-vision](http://www.sick.com/more-than-a-vision)



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
- Industry 4.0 ready (MQTT, OPC UA, HTTPS, ...)

→ [www.sick.com/RFID](http://www.sick.com/RFID)

### 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

→ [www.sick.com/image-based\\_code\\_readers](http://www.sick.com/image-based_code_readers)

### 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

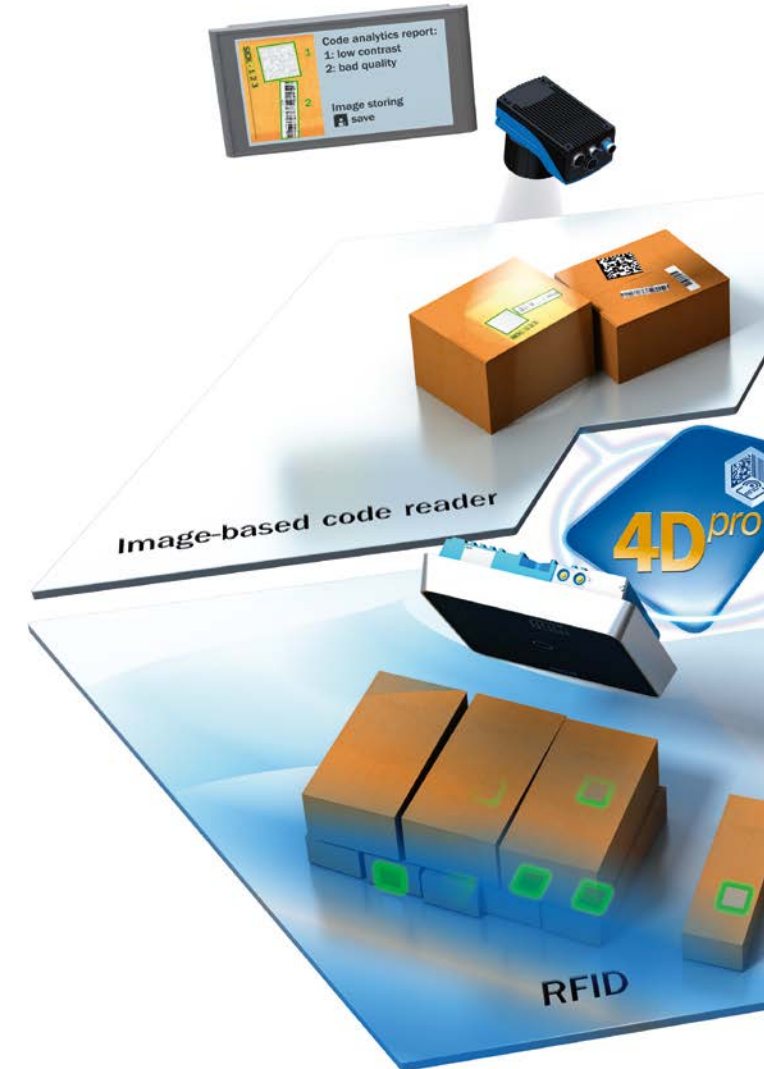
→ [www.sick.com/bar\\_code\\_scanners](http://www.sick.com/bar_code_scanners)

## 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:

→ [www.sick.com/4Dpro](http://www.sick.com/4Dpro)



- 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

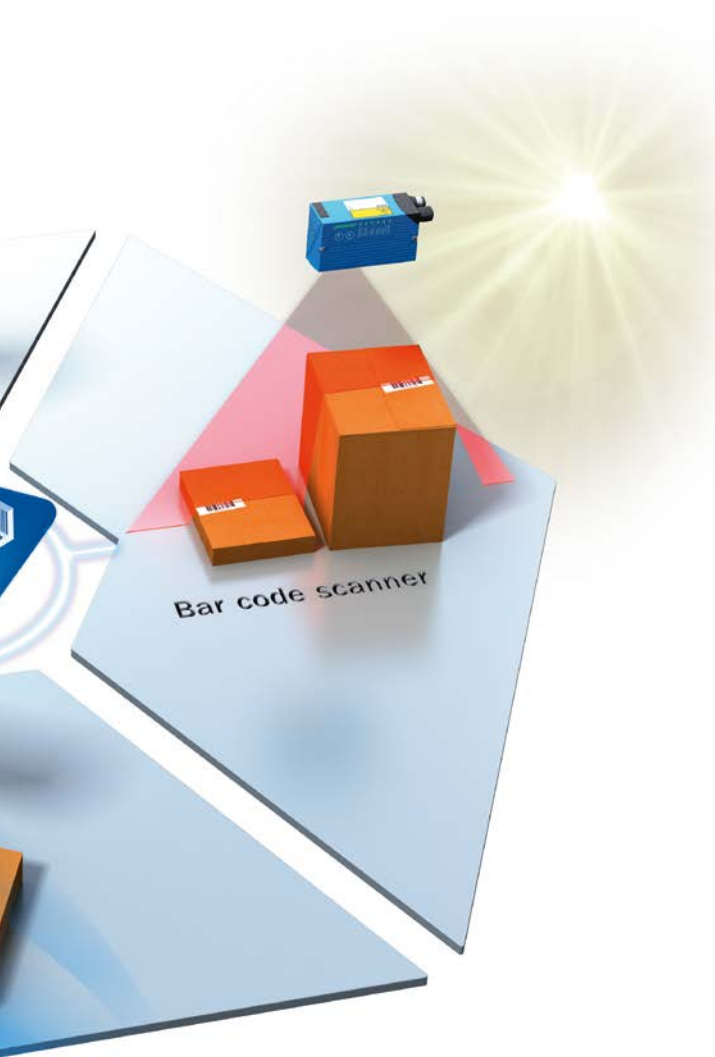
Thanks to their modular architecture, sensor systems from SICK can be expanded flexibly and adapted to your requirements. Whether laser, camera, or RFID: All three technologies can be brought together in one system solution if required. In such cases, the customer interface is completely independent 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](http://www.sick.com/SICK_AppSpace)







Product	Supported codes/data cards								Focusing		Interfaces																
	1D code	Stacked	2D code	Direct-marked codes	Digital watermarks	OCR	RFID transponder	Magnetic-coded tags	Fixed focus	Adjustable focus	Dynamic focus control	Auto focus	Serial	USB	Wireless	PROFIBUS	PROFINET	EtherNet/IP	TCP/IP	CAN open	CAN bus	IO-Link	Via external CDF600 gateway			TCP/IP	
<b>Image-based code readers</b>																											
Lector61x	■	■	■	■ <sup>2)</sup>					■	■	■ <sup>2), 3)</sup>	■			■		■	■	■	■							
Lector62x	■	■	■	■ <sup>2)</sup>	■ <sup>2)</sup>				■		■ <sup>2), 3)</sup>	■	■ <sup>4)</sup>		■		■	■	■	■				■	■	■	
Lector63x	■	■	■	■ <sup>2)</sup>	■ <sup>2)</sup>				■			■	■ <sup>4)</sup>		■		■	■	■	■				■	■		
Lector64x	■	■	■	■ <sup>2)</sup>	■ <sup>2)</sup>				■			■	■ <sup>4)</sup>		■		■	■	■	■				■	■		
Lector65x	■	■	■	■ <sup>2)</sup>	■ <sup>2)</sup>				■	■ <sup>2)</sup>	■ <sup>2), 3)</sup>	■	■ <sup>4)</sup>		■		■	■	■	■				■	■		
<b>Fixed mount bar code scanners</b>																											
CLV60x	■							■				■ <sup>2)</sup>	■ <sup>2)</sup>														
CLV61x	■							■				■ <sup>2)</sup>								■ <sup>2)</sup>				■	■	■	
CLV61x Dual Port	■							■				■ <sup>2)</sup>		■ <sup>2)</sup>						■ <sup>2)</sup>				■	■	■	
CLV62x	■							■				■ <sup>2)</sup>		■ <sup>2)</sup>		■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>				■	■	■	
CLV63x	■							■				■ <sup>2)</sup>		■ <sup>2)</sup>		■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>				■	■	■	
CLV64x	■								■	■		■ <sup>2)</sup>		■ <sup>2)</sup>		■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>				■	■	■	
CLV65x	■									■	■	■ <sup>2)</sup>		■ <sup>2)</sup>		■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>				■	■	■	
CLV69x	■									■	■	■ <sup>2)</sup>		■ <sup>2)</sup>		■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>	■ <sup>2)</sup>				■	■	■	
<b>Mobile hand-held scanners</b>																											
IDM12x	■							■				■	■														
IDM14x	■	■						■				■	■	■										■	■	■	■
IDM16x	■	■						■				■	■	■										■	■	■	■
IDM24x	■	■	■					■				■	■	■										■	■	■	■
IDM26x	■	■	■					■				■	■	■										■	■	■	■
HW199x	■	■	■		■	■ <sup>2)</sup>		■				■	■	■										■	■	■	■
HW198x	■	■	■								■	■	■	■										■	■	■	■
ZS36x8 DPM	■	■	■	■				■				■	■	■										■	■	■	■
<b>RFID</b>																											
RFH5xx							■															■					
RFH6xx							■					■			■		■	■	■	■				■	■	■	
RFU61x							■					■			■		■	■	■	■				■	■	■	
RFU62x							■					■			■		■	■	■	■				■	■	■	
RFU63x							■					■			■		■	■	■	■				■	■	■	
RFU65x							■					■			■		■	■	■	■				■	■	■	
<b>Magnetic-coded identification</b>																											
MIS								■															■				

<sup>1)</sup> For details, see the reading field diagram online. | <sup>2)</sup> Depends on the product variant. | <sup>3)</sup> During teach-in. | <sup>4)</sup> For parameterization only.  
<sup>5)</sup> Depends on the lens and illumination unit. | <sup>6)</sup> Depends on the application and the transponder used.

Reading distance/scanning range <sup>1)</sup>															Page				
250 mm	500 mm	750 mm	1,000 mm	1,250 mm	1,500 mm	1,750 mm	2,000 mm	2,250 mm	2,500 mm	2,750 mm	3,000 mm	3,250 mm	3,500 mm	3,750 mm	4,000 mm	5,000 mm	6,000 mm	10,000 mm	
50 mm ... 300 mm															→ 8				
30 mm ... 1,500 mm															→ 8				
50 mm ... 2,000 mm															→ 9				
300 mm ... 2,200 mm <sup>5)</sup>															→ 9				
300 mm ... 2,200 mm <sup>5)</sup>															→ 10				
15 mm ... 105 mm															→ 12				
25 mm ... 705 mm <sup>2)</sup>															→ 12				
25 mm ... 705 mm <sup>2)</sup>															→ 13				
45 mm ... 730 mm <sup>2)</sup>															→ 13				
44 mm ... 735 mm <sup>2)</sup>															→ 14				
30 mm ... 840 mm <sup>2)</sup>															→ 14				
125 mm ... 1,625 mm <sup>2)</sup>															→ 15				
400 mm ... 2,200 mm <sup>2)</sup>															→ 15				
0 mm ... 400 mm															→ 16				
20 mm ... 850 mm															→ 16				
20 mm ... 850 mm															→ 17				
30 mm ... 400 mm															→ 17				
30 mm ... 400 mm															→ 18				
15 mm ... 749 mm															→ 18				
0 mm ... 16,000 mm															→ 19				
3 mm ... 125 mm															→ 19				
0 mm ... 60 mm <sup>6)</sup>															→ 20				
0 mm ... 240 mm <sup>6)</sup>															→ 20				
0 mm ... 1,000 mm <sup>6)</sup>															→ 21				
0 mm ... 2,000 mm <sup>6)</sup>															→ 21				
0 mm ... 10,000 mm <sup>6)</sup>															→ 22				
0 mm ... 10,000 mm <sup>6)</sup>															→ 22				
0 mm ... 3 mm															→ 24				

	 <p><b>Lector61x</b></p>	 <p><b>Lector62x</b></p>	
	<p>The small device for miniature codes and much more</p>	<p>Perfect vision – in any light</p>	

<p>Possible fields of application</p>			
	<ul style="list-style-type: none"> <li>• Electronics and solar industries: PCB, component and device identification</li> <li>• Consumer goods industry: serialization and package content monitoring</li> <li>• Storage and conveyor systems: tote identification</li> <li>• Automotive industry: production control and traceability of devices</li> </ul>	<ul style="list-style-type: none"> <li>• Automotive industry: production control and traceability of devices</li> <li>• Consumer goods industry: date code inspection, serialization, and package content monitoring</li> <li>• Storage and conveyor systems: tote identification</li> <li>• Electronics and solar industries: PCB, glass, and wafer identification</li> </ul>	

<p>Example application</p>			
	<p style="text-align: center;"><b>Electronics</b></p>  <p style="text-align: center;">Identification of DPM codes on printed circuit boards</p> 	<p style="text-align: center;"><b>Automotive and parts suppliers</b></p>  <p style="text-align: center;">Traceability of devices</p> 	
<p>Detailed information</p>	<p style="text-align: center;">→ <a href="http://www.sick.com/Lector61x">www.sick.com/Lector61x</a></p>	<p style="text-align: center;">→ <a href="http://www.sick.com/Lector62x">www.sick.com/Lector62x</a></p>	





**Lector63x**

Intelligent. Flexible. Intuitive.



**Lector64x**

High efficiency for code reading applications

- Presentation camera, manual package sorting
- Automated sorting systems used by courier, express and postal service providers as well as in retail
- Aggregation of food and pharmaceutical packaging
- Track and trace in automated packaging machines
- Scanning from a large distance for traceability in the automotive industry
- Tire identification
- Scanning of small codes in the electronics and solar industry

- Presentation camera, manual package sorting
- Material handling in automated sorting systems used by courier, express and postal service providers as well as in retail
- Tire identification
- Aggregation of food and pharmaceutical packaging
- Identification of codes, tracking of serial numbers and manufacturing dates in pharmaceutical distribution contexts

**Courier, express, parcel, and postal**

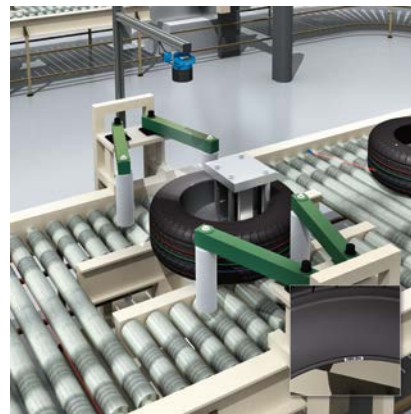


Sorting of small parcels by hand



→ [www.sick.com/Lector63x](http://www.sick.com/Lector63x)

**Tires**



Spotting



→ [www.sick.com/Lector64x](http://www.sick.com/Lector64x)



**Lector65x**

Maximum flexibility with moving belts

**Possible fields of application**

- Material handling in automated sorting systems used by courier, express and postal service providers as well as in retail
- Presentation camera, manual package sorting
- Tire identification
- Aggregation of food and pharmaceutical packaging
- Identification of codes, tracing of serial numbers and manufacturing dates in the pharmaceutical distribution sector

**Example application**

**Health care manufacturing**



Multifunctional code reading



Detailed information

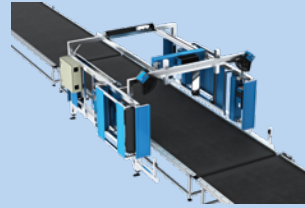
→ [www.sick.com/Lector65x](http://www.sick.com/Lector65x)



**Lector65x system**

Your objects are always in focus

- Multi-sided, omni-directional code reading on small and medium-sized conveyors
- Courier, express, post and cargo (CEP), retail and warehousing, tire and other industries
- Sorting of bags at airports
- Easy upgrading of laser-based systems to optimize the read rate and reading capabilities of 2D codes
- Reading in Start-Stop operation

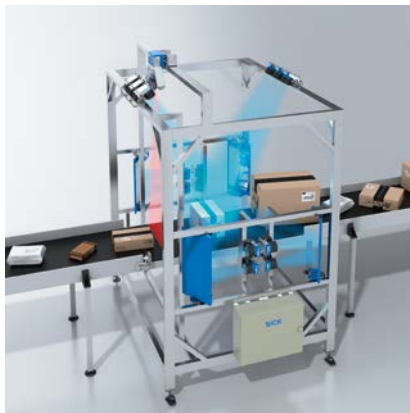


**ICR system**

Efficient sorting of objects at the highest conveyor speeds

- Challenging code reading for optimizing sorting processes in the fields of transport and logistics
- Image acquisition and storage for OCR, video coding, archiving and vision applications

**Retail and warehousing**



Automated parcel identification using image-based code readers



→ [www.sick.com/Lector65x\\_System](http://www.sick.com/Lector65x_System)

**Retail and warehousing**



Image-based object identification with detection of hazardous material symbols

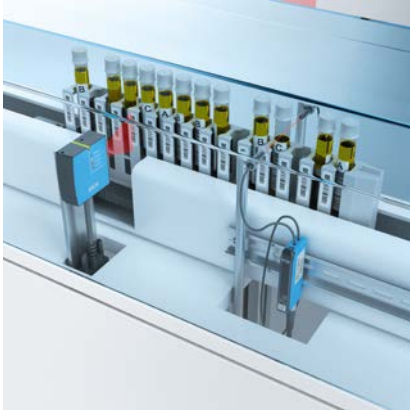

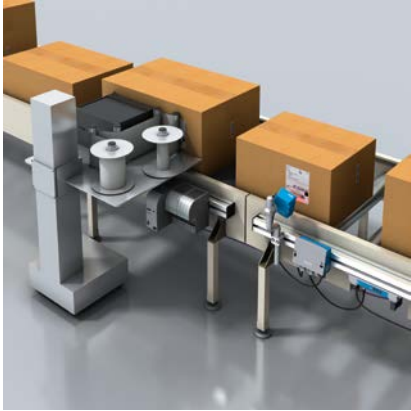



→ [www.sick.com/ICR\\_System](http://www.sick.com/ICR_System)

	 <p style="text-align: center;"><b>CLV60x</b></p>	 <p style="text-align: center;"><b>CLV61x</b></p>	
	<p>Reliable reading performance in the smallest of spaces</p>	<p>Reliable decoding, simple integration</p>	

<p><b>Possible fields of application</b></p>			
	<ul style="list-style-type: none"> <li>• Medical technology: clinical analysis</li> <li>• Identification of bar codes immediately after printout</li> <li>• Automated object identification in applications with very little space, such as reading bar codes in rolls of film</li> <li>• OEM applications such as ticket or cash register systems, or integration on a robot arm</li> </ul>	<ul style="list-style-type: none"> <li>• Warehouse conveyor technology: tote identification on conveyors, positioning and storage location identification, pallet identification</li> <li>• Food and beverage: legibility checking of bar codes after printing, bar code identification in packaging and secondary packaging processes</li> <li>• Medical technology: clinical analysis</li> </ul>	

**Example application**

	<p><b>Health care manufacturing</b></p>	<p><b>Storage and conveyor technology</b></p>	
	 <p style="text-align: center;">Identification of rack codes and level measurement of test tubes in the Single Lane Analyzer</p> <div style="text-align: center;">  </div>	 <p style="text-align: center;">Printing, application and identification of bar codes</p> <div style="text-align: center;">  </div>	
<p>Detailed information</p>	<p>→ <a href="http://www.sick.com/CLV60x">www.sick.com/CLV60x</a></p>	<p>→ <a href="http://www.sick.com/CLV61x">www.sick.com/CLV61x</a></p>	



**CLV61x Dual Port**

The network professional



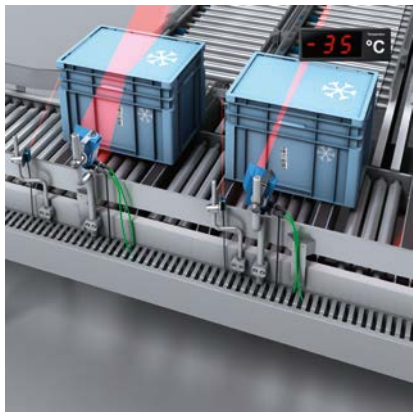
**CLV62x**

Powerful scanner – flexible use

- Warehouse conveyor technology: container identification, picking station, cold storage

- Warehouse conveyor technology: picking station, container and pallet foot identification
- Food and beverage: inspection of bar code for legibility after printing, bar code identification in packaging and secondary packaging processes
- Medical technology: clinical analysis
- Aggregation of food and pharmaceutical packaging

**Storage and conveyor technology**



Scanning of codes on the sides of containers using bar code scanners, including in deep freeze applications



→ [www.sick.com/CLV61x\\_Dual\\_Port](http://www.sick.com/CLV61x_Dual_Port)

**Storage and conveyor technology**



Identification of bar codes on pallet feet

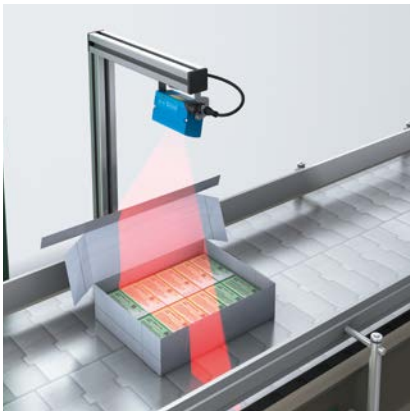





→ [www.sick.com/CLV62x](http://www.sick.com/CLV62x)

	 <p style="text-align: center;"><b>CLV63x</b></p>	 <p style="text-align: center;"><b>CLV64x</b></p>	
	<p style="text-align: center;">Intelligent scanning solution for logistics and automation</p>	<p style="text-align: center;">Dynamic versatility</p>	

<p><b>Possible fields of application</b></p>	
<ul style="list-style-type: none"> <li>• Warehouse conveyor technology: picking station, identification of secondary packaging, pallet foot identification</li> <li>• Consumer goods industry: serialization and package content monitoring</li> <li>• Aggregation of food and pharmaceutical packaging</li> <li>• Food and beverage: identification in wash-down zones</li> </ul>	<ul style="list-style-type: none"> <li>• Food, beverages: bar code identification in packaging and repackaging processes and identification in washdown zones</li> <li>• Aggregation of food and pharmaceutical packaging</li> <li>• Warehouse conveyor technology: bar code identification of objects on pallets</li> <li>• Medical technology: clinical analysis</li> <li>• Identification of test tubes in transport racks</li> </ul>

**Example application**

	<p><b>Food and beverage</b></p>	<p><b>Food and beverage</b></p>	
	 <p style="text-align: center;">Checking of product packagings using bar codes</p> <div style="text-align: center;">  </div>	 <p style="text-align: center;">Reading of bar codes on transport crates</p> <div style="text-align: center;">  </div>	

<p>Detailed information</p>	<p>→ <a href="http://www.sick.com/CLV63x">www.sick.com/CLV63x</a></p>	<p>→ <a href="http://www.sick.com/CLV64x">www.sick.com/CLV64x</a></p>	
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**CLV65x**

Always in (auto) focus



**CLV69x**

Flexible and high-performance at the highest level



**CLV system**

1D code identification for an optimal object flow

- CEP industry as well as retail and warehousing: Material handling in automated sorter systems
- Airports: independent bag drop by passengers
- Warehouse conveyor technology: bar code identification of pallet feet and objects on pallets
- Industrial trucks: bar code identification of goods and pallets

- Courier, express, parcel and postal services (CEP)
- Airport luggage identification – ALIS applications
- OMNI-directional bar code reading
- Integration in RFID hybrid systems and high-end camera tunnels
- Pallet identification

- 1D code identification in all areas of conveying technology

**Industrial vehicles**



Goods identification and traceability with bar code scanners



→ [www.sick.com/CLV65x](http://www.sick.com/CLV65x)

**Retail and warehousing**

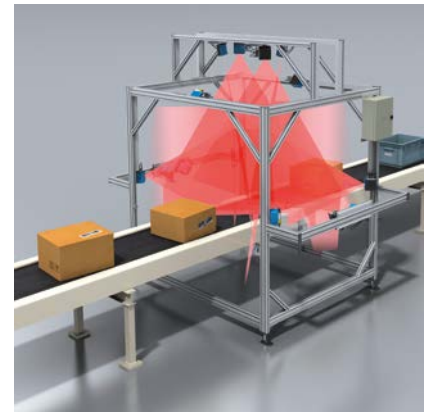


Identification of loaded pallets using bar codes



→ [www.sick.com/CLV69x](http://www.sick.com/CLV69x)

**Courier, express, parcel, and postal**



Reading of bar codes during receipt and dispatch of shipments



→ [www.sick.com/CLV\\_System](http://www.sick.com/CLV_System)

	 <p><b>IDM12x</b> The entry-level model</p>	 <p><b>IDM14x</b> The versatile one</p>	
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<b>Possible fields of application</b>	
<ul style="list-style-type: none"> <li>• Quick data entry through simple reading of product labels at sales or service points</li> <li>• Time-saving office automation by reading document bar codes for easy archiving of documents</li> </ul>	<ul style="list-style-type: none"> <li>• Manual identification of test tubes in clinical analysis and the pharmaceutical industry</li> <li>• Safe and easy process control and machine setting by reading bar codes on documents or displays</li> </ul>

**Example application**

	<p style="text-align: center;"><b>Retail and warehousing</b></p>  <p style="text-align: center;">Mobile identification of covered or damaged bar codes at service centers</p> <div style="text-align: center;">  </div>	<p style="text-align: center;"><b>Food and beverage</b></p>  <p style="text-align: center;">Changeover of machinery to a new product</p> <div style="text-align: center;">  </div>	
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Detailed information	→ <a href="http://www.sick.com/IDM12x">www.sick.com/IDM12x</a>	→ <a href="http://www.sick.com/IDM14x">www.sick.com/IDM14x</a>	
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**IDM16x**

Industrial mobile reliability



**IDM24x**

Convenient and secure identification of 2D codes

- Supports manual processes such as incoming goods, order picking or dispatch in warehouses and distribution centers
- Manual scanning for production control and traceability of products or components in the automotive, electronics, solar and consumer goods industries

- Point of sale, service (retail, check-in counters)
- Clinical analysis (identification of test tubes)
- Office environment (document capture)
- Warehouse (document and packet capture)
- Automotive and electronics industry (component identification)

**Machine tools**



Mobile identification of production data



→ [www.sick.com/IDM16x](http://www.sick.com/IDM16x)

**Electronics**



Mobile identification at pick-and-place setup stations







→ [www.sick.com/IDM24x](http://www.sick.com/IDM24x)

	 <p><b>IDM26x</b></p>	 <p><b>HW199x</b></p>	
	<p>2D-code identification in harsh environments</p>	<p>Reliable 2D code identification for demanding industrial applications</p>	

<p><b>Possible fields of application</b></p>			
	<ul style="list-style-type: none"> <li>• Production control and traceability of products or components in the automotive, electronics, solar and consumer goods industries</li> <li>• Warehouses and distribution centers, e.g., for incoming goods, order picking and dispatch</li> </ul>	<ul style="list-style-type: none"> <li>• Production control and traceability of products or components in the automotive, electronics, solar and consumer goods industries</li> <li>• Warehouses and distribution centers, e.g., for incoming goods, order picking, and dispatch</li> </ul>	

**Example application**

	<p><b>Rubber and plastics</b></p>	<p><b>Courier, express, parcel, and postal</b></p>	
			
	<p>Mobile material identification</p>	<p>Manual object scans</p>	
			

<p>Detailed information</p>	<p>→ <a href="http://www.sick.com/IDM26x">www.sick.com/IDM26x</a></p>	<p>→ <a href="http://www.sick.com/HW199x">www.sick.com/HW199x</a></p>	
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**HW198x**

Industry-grade area-imaging scanner with huge reading distance



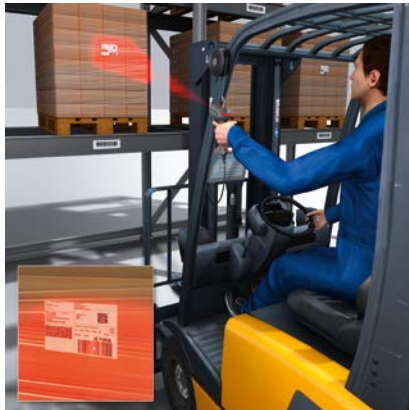
**ZS36x8 DPM**

Reliable DPM code identification for challenging industrial applications

- Manned forklift truck applications: Reading of bar codes from a distance, on pallets in high-bay warehouses or on stacked containers in marshaling yards or ports
- Universal device for all tasks in a distribution center or warehouse

- Automotive industry: Reading of needed or lasered DPM codes, 1D and 2D codes
- Identification of etched DPM codes on glossy surfaces, e.g. devices, gear wheels, rings
- Detection of printed or thermally-coated DPM codes on glossy printed circuit boards and other electronic components

**Industrial vehicles**



Bar code goods identification in varying load carriers



→ [www.sick.com/HW198x](http://www.sick.com/HW198x)

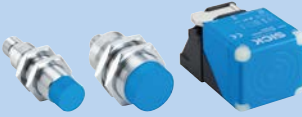

**Automotive and parts suppliers**



Mobile identification of DPM codes on electronic components



→ [www.sick.com/ZS36x8\\_DPM](http://www.sick.com/ZS36x8_DPM)

	 <p style="text-align: center;"><b>RFH5xx</b></p>	 <p style="text-align: center;"><b>RFH6xx</b></p>	
	<p>Identification in tight spaces in machine and plant engineering</p>	<p>Intelligent identification using RFID</p>	

<p><b>Possible fields of application</b></p>			
	<ul style="list-style-type: none"> <li>• Hanging conveyor for clothes: Identification with RFID</li> <li>• Workpiece carrier in assembly lines: Identification with RFID</li> </ul>	<ul style="list-style-type: none"> <li>• Container identification on conveyor systems in intralogistics processes</li> <li>• Object identification in hanging conveyors</li> <li>• Workpiece carrier detection in production lines</li> <li>• Position determination of automatic guided vehicles by reading out transponders recessed in the ground</li> </ul>	

**Example application**

	<p><b>Electronics</b></p>	<p><b>Industrial vehicles</b></p>	
	 <p style="text-align: center;">Identification of workpiece carriers using RFID</p> <div style="text-align: center;">  </div>	 <p style="text-align: center;">Driver assistance in a narrow aisle warehouse with RFID positioning</p> <div style="text-align: center;">  </div>	
<p>Detailed information</p>	<p>→ <a href="http://www.sick.com/RFH5xx">www.sick.com/RFH5xx</a></p>	<p>→ <a href="http://www.sick.com/RFH6xx">www.sick.com/RFH6xx</a></p>	



**RFU61x**  
SMALL-IN-ONE



**RFU62x**  
UHF for small read ranges

- Workpiece identification on assembly lines
- Identification of production material in machines
- Charging identification on mobile platforms
- Material procurement in E-Kanban
- Container identification in conveyor systems

- Workpiece identification on assembly lines
- Charging identification on mobile platforms
- Identification of production material in machines
- Container identification in conveyor systems
- Material procurement in E-Kanban

**Automotive and parts suppliers**



Assembly identification in the production process



→ [www.sick.com/RFU61x](http://www.sick.com/RFU61x)


**Industrial vehicles**



Complete tracking of the material flow using an RFID sensor on manned forklift trucks



→ [www.sick.com/RFU62x](http://www.sick.com/RFU62x)

	 <p style="text-align: center;"><b>RFU63x</b></p>	 <p style="text-align: center;"><b>RFU65x</b></p>
	<p>Simple integration – intelligence included</p>	<p>The measuring RFID device with integrated passage and direction detection</p>

<p><b>Possible fields of application</b></p>		
	<ul style="list-style-type: none"> <li>• Identification of bodyparts in the automotive industry</li> <li>• Tracing of transport containers in logistics</li> <li>• Identification of vehicles at tollbooths</li> <li>• Identification of trains and cars in rail transport</li> <li>• Electronic toll collection</li> </ul>	<ul style="list-style-type: none"> <li>• Final assembly and vehicle delivery in the automotive industry</li> <li>• Receiving and outgoing goods doors as well as forklift applications in logistics</li> </ul>

**Example application**

	<p><b>Automotive and parts suppliers</b></p>	<p><b>Automotive and parts suppliers</b></p>
		
	<p style="text-align: center;">Car body identification</p> <div style="text-align: center;">  </div>	<p style="text-align: center;">Vehicle track and trace in the production and distribution process</p> <div style="text-align: center;">  </div>

<p>Detailed information</p>	<p>→ <a href="http://www.sick.com/RFU63x">www.sick.com/RFU63x</a></p>	<p>→ <a href="http://www.sick.com/RFU65x">www.sick.com/RFU65x</a></p>
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**RFID system**

Flexible design and high throughput in a single system

- Inspection of incoming and outgoing goods in production logistics
- Bulk and single tag identification in the flow of goods

**Retail and warehousing**



Automated object identification using RFID during commissioning as well as in goods receipt and goods issue



→ [www.sick.com/RFID\\_System](http://www.sick.com/RFID_System)



**MIS**

Identification sensor for reading magnetic-coded tags

**Possible fields of application**

- Easy gripper identification (robotics, handling and assembly, consumer goods industry)
- Easy workpiece carrier identification (electronics and solar industry, handling and assembly)
- Simple tool identification (machine tools)

**Example application**

**Food and beverage**



Gripper change during packaging processes



Detailed information

→ [www.sick.com/MIS](http://www.sick.com/MIS)







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Safe and regularly inspected



**Upgrade and retrofits**  
Easy, safe, and economical



**Training and education**  
Practical, focused, and professional

## SICK AT A GLANCE

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SICK has extensive experience in various industries and understands their processes and requirements. With intelligent sensors, SICK delivers exactly what the 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 SICK a reliable supplier and development partner.

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Detailed addresses and further locations → [www.sick.com](http://www.sick.com)