



ICR System

Efficient sorting of objects at the highest conveyor speeds

TRACK AND TRACE SYSTEMS

SICK
Sensor Intelligence.

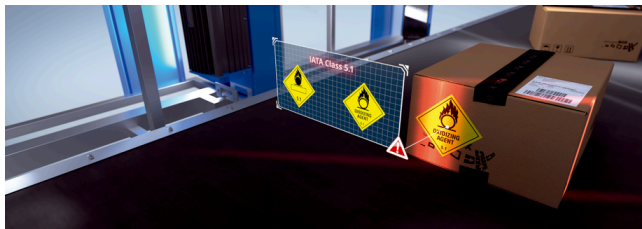
Additional functionalities



Reliable object verification

The 2D/3D Vision Solutions from SICK offer an additional functionality for any system with an ICR camera. The additional information about the object and label are collected directly within the camera, in parallel to code reading and image acquisition. This enables manual processes to be automated and ensures a reliable object verification in dynamic processes.

2D / 3D Vision Solutions – Additional functionality for track and trace systems



Hazmat Detection

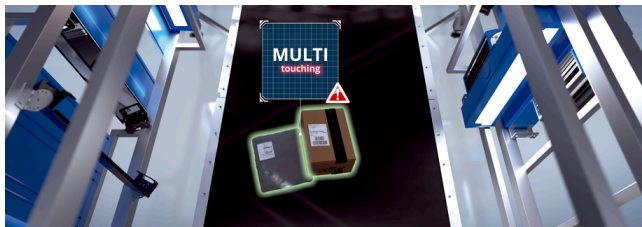
Reliable detection of hazardous goods labels, regardless of label design.



Bag Box Classification

Automatic detection of shipping bags and parcels for efficient sorting, regardless of shape, color and material.

Advantages



Single Item Verification

Verification of the singulation of cubic and irregular objects. The codes do not need to be visible.



Optical Character Recognition (OCR)

Detection of printed label text in addition to code reading.



Controlled pre-sorting for sorting systems. Additional information for subsequent process steps.



Technical data overview

Industries	Courier, express, parcel, and postal Retail and warehousing
Products by tasks	Identification
Transport speed	0 m/s ... 4.5 m/s
Minimum object distance	≥ 50 mm
Read field width	1,100 mm ... 1,600 mm (depending on type)

Product description

The ICR (image-based code reader) track and trace system is the ideal identification solution for sorting processes at the highest conveyor speeds. The cubic and irregular shipping objects to be sorted are quickly and reliably identified while all common 1D/2D codes as well as postal codes are taken into account. The excellent image quality of the integrated camera also enables use in OCR, video coding and vision applications. The system can be used for thin conveyor widths as well as for widths of up to 1,600 mm and can be expanded to include products such as a volume measurement system.

At a glance

- 8/12 k quad-line sensor
- Linux-based software platform
- Ethernet-based code data transmission to the SIM2000 controller
- Integrated computing power to support the latest vision applications
- MTBF 120,000 h

Your benefits

- Throughput of more than 18,000 objects/h at conveyor speeds of up to 4.5 m/s
- Conveyor belt widths of up to 1,600 mm are covered
- High-resolution image quality (200 dpi) for the best read rates, OCR results, video coding and vision applications
- Completely integrated code reading and vision solutions without requiring an additional PC/server
- Monitoring option thanks to decentralized image archiving
- Reduced shadow effects and minimal system footprint thanks to the 55° camera skew angle
- Simplified and cost-efficient cabling due to Ethernet line network topology

Fields of application

- 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

Ordering information

Other models and accessories → www.sick.com/ICR_System

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