IDM14x

Versatility made easy – from high density to standard range codes

MOBILE HAND-HELD SCANNERS

SICK
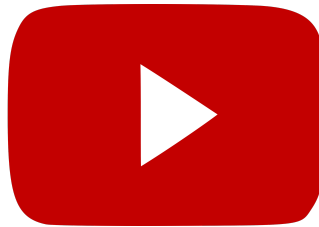Sensor Intelligence.

Advantages

Integration into industrial networks

Modular connectivity enables integration into many fieldbus technologies: PROFIBUS DP, PROFINET IO, Ethernet TCP/IP, EtherCAT®, DeviceNet™. For use in systems such as fixed 1D bar code scanners, 2D cameras, and RFID reading devices, the AUX connectivity offers a cost-effective solution.

Especially when it comes to stationary track and trace systems, manual mobile code reading is often required as a back-up – this can be done economically with AUX loop-in.

This video tutorial gives an example of the materials and steps required for integration in a fieldbus network.

Easy PROFIBUS integration into large track-and-trace systems with the CDF600 fieldbus module.

Simple integration into numerous fieldbus technologies and AUX loop-in for identification systems using modular connectivity

Reliable code reading has never been more convenient

The IDM14x mobile hand-held scanner offers a wide range of bar code applications. They read all standard 1D bar codes and the PDF variants of the product family also even detect stacked codes such as PDF417. All the devices are extremely light-

weight and fit comfortably in your hand thanks to the ergonomically shaped housing. With corded and WPAN variants, the optimal solution is available for any application. The integrated linear imager scanning unit can identify codes at a distance of up to 850 mm. Even damaged or low-contrast codes are no problem. The combination of high read performance, ergonomic design and a large selection of devices make the IDM14x the ideal solution for many applications in the fields of office automation, factory automation as well as warehousing and logistics.

When reading sample bar codes in clinical analysis: A wide range of code types can be identified quickly, correctly and without manual data input with just one device.

High productivity: Fast reading of even poorly-printed 1D or stacked codes in office automation and document handling.

Time-saving use in presentation mode: Tedious actuation of the trigger switch is no longer necessary.

Cost-effective: Fast and reliable identification of 1D codes or stacked codes such as PDF417 for daily use in a wide range of less harsh applications

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.

Technical data overview

Application	General Purpose
Readable code structures	1D codes, Stacked (depending on type)
Code resolution	≥ 0.076 mm
Reading distance	20 mm ... 850 mm [1]
Ambient operating temperature	−10 °C ... +50 °C
Enclosure rating	IP41
Shock resistance	25 drops from 1.8 m height on concrete
Ethernet	✓, TCP/IP, Optional, over external connection module
PROFINET	✓, optional over external fieldbus module
EtherCAT	✓, optional over external fieldbus module
Serial	✓, RS-232 TTL
PROFIBUS DP	✓, optional over external fieldbus module
DeviceNet™	✓, Optional, over external connection module
USB	✓
PS/2	✓
Bluetooth	✓

[1] For details see reading field diagram.

Product description

The IDM14x mobile hand-held scanner offers a wide range of bar code applications. The devices read all standard 1D bar codes, the PDF variants, and stacked codes such as PDF417. All the devices are extremely lightweight and fit comfortably in your hand thanks to the ergonomically shaped housing. With corded and Bluetooth variants available, you are bound to find the ideal solution for your specific application. The integrated linear imager scanning unit can identify codes at a distance of up to 850 mm. Even damaged or low-contrast codes are no problem. The combination of high read performance and varied device variants, all with highly ergonomic designs, make the IDM14x the ideal solution for many applications in the fields of office automation, factory automation as well as warehousing and logistics.

At a glance

- Reading distance up to 850 mm
- Identifies all popular linear bar codes
- Scan rate up to 500 scans/second
- Withstands 24 drops from 1.8 m height
- Highly visible scan line
- IP 41 enclosure rating

Your benefits

- Reliable identification even of poorly printed bar codes reduces the need to enter data manually
- Maximum user comfort due to ergonomic housing design and weight
- High availability thanks to compact housing design
- Easy barcode fastening thanks to the clearly visible scan line
- Increased productivity thanks to high reading speed

Fields of application

- Manual identification of test tubes in clinical analysis and the pharmaceutical industry
- Safe and easy process control and machine setting by reading bar codes on documents or displays

Ordering information

Other models and accessories ➜ www.sick.com/IDM14x

- **Sub product family:** IDM140 Corded
- **Version:** Standard Range
- **Reading distance:** 20 mm ... 850 mm (For details see reading field diagram.)
- **Code resolution:** ≥ 0.076 mm

Items supplied	Codes/data cards	Communication interface	Type	Part no.
Kit	1D codes	Ethernet, PROFINET, EtherCAT®, Serial, PROFIBUS DP, DeviceNet™	IDM140-300S RS-232 Kit	6054540
		USB	IDM140-300S USB Kit	6054539
Single scanner	1D codes	Ethernet, PROFINET, EtherCAT®, Serial, PROFIBUS DP, DeviceNet™, USB, PS/2	IDM140-300S	6054538
	1D codes, Stacked		IDM140-310S	6054541

- **Sub product family:** IDM141 Bluetooth
- **Version:** Standard Range
- **Reading distance:** 20 mm ... 850 mm (For details see reading field diagram.)
- **Code resolution:** ≥ 0.076 mm

Items supplied	Codes/data cards	Communication interface	Type	Part no.
Kit	1D codes	Ethernet, PROFINET, EtherCAT®, Serial, PROFIBUS DP, DeviceNet™, Bluetooth	IDM141-300S RS-232 Kit	6054552
		USB	IDM141-300S USB Kit	6054551
Single scanner	1D codes	Ethernet, PROFINET, EtherCAT®, Serial, PROFIBUS DP, DeviceNet™, USB, PS/2, Bluetooth	IDM141-300S	6054550
	1D codes, Stacked		IDM141-310S	6054553

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."

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