



HW199x

Reliable 2D code identification for challenging industrial applications

MOBILE HANDHELD SCANNERS

SICK
Sensor Intelligence.



Technical data overview

Application	Industrial application
Readable code structures	1D codes, 2D codes, Stacked, Digimarc®
Code resolution	≥ 0.076 mm ¹⁾ ≥ 0.152 mm ²⁾
Reading distance	0 mm ... 837 mm
Sensor	1,280 px x 800 px
Ambient operating temperature	-30 °C ... +50 °C (depending on type)
Enclosure rating	IP65, IP67
Shock resistance	50 drop samples at -30 °C ... +50 °C from 2 m height on concrete 20 drop samples at 25 °C, 55% rel. air humidity onto concrete from a height of 2.4 m 36 MIL-STD-810G drop samples at 25 °C, 55% rel. air humidity onto concrete from a height of 3 m
Ethernet	✓, TCP/IP, Optional, over external connection module / ✓, Optional, over external connection module (depending on type)
Serial	✓, RS-232 TTL
PROFIBUS DP	✓, optional over external fieldbus module
PROFINET	✓, optional over external fieldbus module
EtherCAT	✓, optional over external fieldbus module
USB	✓
PS/2	✓
Bluetooth	✓

¹⁾ Valid for Code 39.

²⁾ Valid for Data Matrix code.

Product description

The HW199x mobile hand-held scanner securely and reliably identifies not only two-dimensional codes but also all standard linear and stacked one-dimensional bar codes. Rugged housing with IP65 / IP67 enclosure rating enables the mobile hand-held scanner to withstand adverse ambient conditions. At the same time, however, it is light, easy to hold, and can be used simply and intuitively due to its triple read feedback via LED, beeper, and vibration. The wireless variants deliver flexibility and mobility. SICK can provide connection modules for integration into industrial fieldbuses such as PROFIBUS or Ethernet TCP/IP. The combination of reliable code reading, rugged design, and SICK connection technology facilitates use in an extremely wide range of industrial applications.

At a glance

- Identification of all standard 1D, stacked, and 2D codes
- Reliable, secure, and fast code reading
- Rugged housing with IP65 / IP67 enclosure rating
- Supports all standard wired and wireless interfaces as well as industrial fieldbuses through SICK connection technology
- Good read feedback via LED, beeper, and vibration

Your benefits

- Scanning technology optimized specifically for industrial applications with significant scanning requirements and reading distances of up to 83 cm
- Quick and reliable identification even on low-contrast or highly reflective codes and in harsh industrial environments
- Simple and flexible integration into industrial fieldbus networks using SICK connection technology
- Highly reliable (e.g., in cold-storage warehouses with temperatures as low as -30° C) thanks to IP65 / IP67 enclosure rating and rugged housing
- Wide range of accessories and easy configuration options for maximum convenience
- Simple and intuitive operation through multiple read confirmation

Fields of application

- Production control and traceability of products or components in the automotive, electronics, solar and consumer goods industries
- Warehouses and distribution centers, e.g., for incoming goods, order picking, and dispatch

Ordering information

Other models and accessories → www.sick.com/HW199x

- **Codes/data cards:** 1D codes, 2D codes, Stacked, Digimarc®
- **Reading distance:** 0 mm ... 837 mm
- **Code resolution:** ≥ 0.076 mm (Valid for Code 39.), ≥ 0.152 mm (Valid for Data Matrix code.)
- **Application:** Industrial application
- **Note:** Additional accessories may be necessary for some communication interfaces (details available online)

Scanner design	Communication interface	Ambient operating temperature	Type	Part no.
Cable connection variant	Ethernet, Serial, PROFIBUS DP, PROFINET, EtherCAT®, USB, PS/2	-30 °C ... +50 °C	HW1990ISR-3	2123084
	USB	-30 °C ... +50 °C	HW1990ISR-3USB	2123085
Wireless variant	Ethernet, USB, PS/2, Serial, PROFIBUS DP, PROFINET, Bluetooth, EtherCAT®	-20 °C ... +50 °C	HW1991ISR-3	2123086
	USB, Bluetooth	-20 °C ... +50 °C	HW1991ISR-3USB-5	2123087

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