BRIEF INSTRUCTIONS

OHV10-F228-R2

EN **1-D/2-D Code Handheld Reader**

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1 Purpose of These Brief Instructions

These brief instructions contains basic instructions for operating the device. However, the manual takes priority over the brief instructions.

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2 Product Description

2.1 Use and Application

> ⚠️ *Caution!*
>
> Irritation caused by optical radiation
>
> The optical unit on the handheld reader is equipped with very bright LEDs that can cause irritation in dark environments.
>
> Do not point the handheld reader at people.
> Do not look directly into the optical unit on the handheld reader.

The 1-D/2-D code handheld reader (hereinafter referred to as "handheld reader" or "device") is a compact handheld reader for all common 1-D and 2-D codes. Special technology to prevent glare allows the device to accurately read codes on highly reflective surfaces. With its patented dual lens and a resolution of 1.2 million pixels, it can read both small and large codes from a wide range of distances. A different-colored target projection makes it easier to see the relevant code. Feedback comes in the form of a visual or audible signal or a vibration.

Data is transferred via USB or RS-232, depending on which connection cable is selected. With its rugged housing and IP54 protection, the handheld reader is ideally suited for heavy-duty industrial use.

The device is only approved for appropriate and intended use. Ignoring these instructions will void any warranty and absolve the manufacturer from any liability.

Use the device only within the specified ambient and operating conditions.

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Protection of the personnel and the plant is not ensured if the device is not used according to its intended use.

2.2 Indicators and Operating Elements
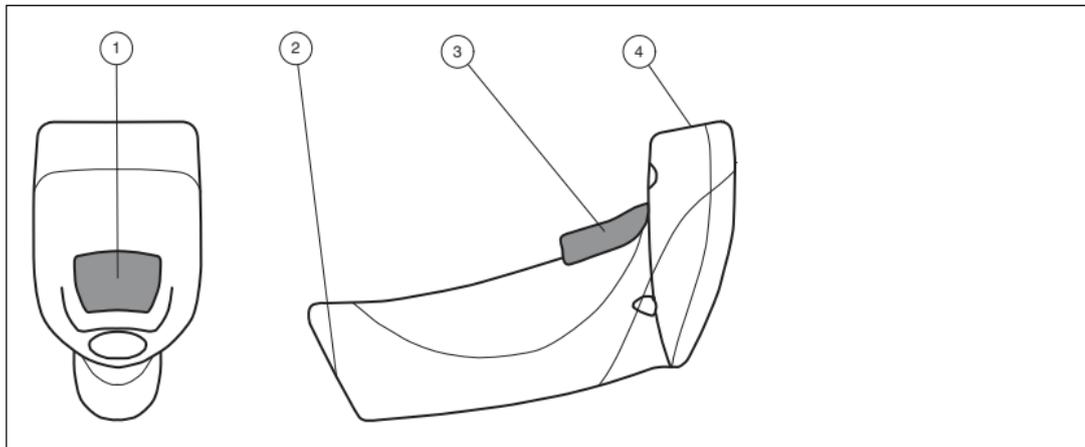
1 Function indicator

2 10-pin connector socket

3 Trigger button

4 Optical unit

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2.3 Scope of Delivery

Check the packaging and contents for damage.

Check if you have received every item and if the items received are the ones you ordered.

- Handheld reader
  OHV10-F228-R2
- Brief instructions

2.4 Accessories

Designation	Description
V45-G-2M-PVC-ABG-USB-G	Connection cable for USB connection, approx. 1.8 meters
V45-G-2M-PVC-SUBD9	Connection cable for RS-232 connection, approx. 2.4 meters (extended) Data connection: Sub-D socket, 9-pin Power supply: DC connector socket, 5.5 mm
ODZ-MAH-SUPPLY	Power supply for RS-232 connection 5 V DC, 1.2 A, short-circuit protected

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2.5 Storage and Disposal

Keep the original packaging. Always store and transport the device in the original packaging.

Store the device in a clean and dry environment. The permitted ambient conditions must be considered, see datasheet.

The device, built-in components, packaging, and any batteries contained within must be disposed in compliance with the applicable laws and guidelines of the respective country.

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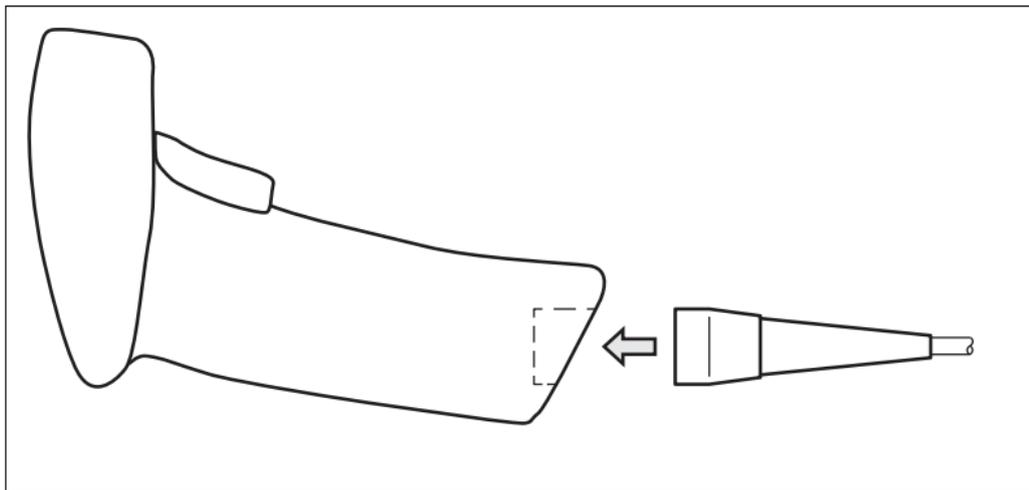**PEPPERL+FUCHS**

3 Installation

3.1 Installing/Removing the Cable

Installing the Cable

1. Hold the end of the cable with the RJ50 plug and insert the plug into the RJ50 socket underneath the handle.
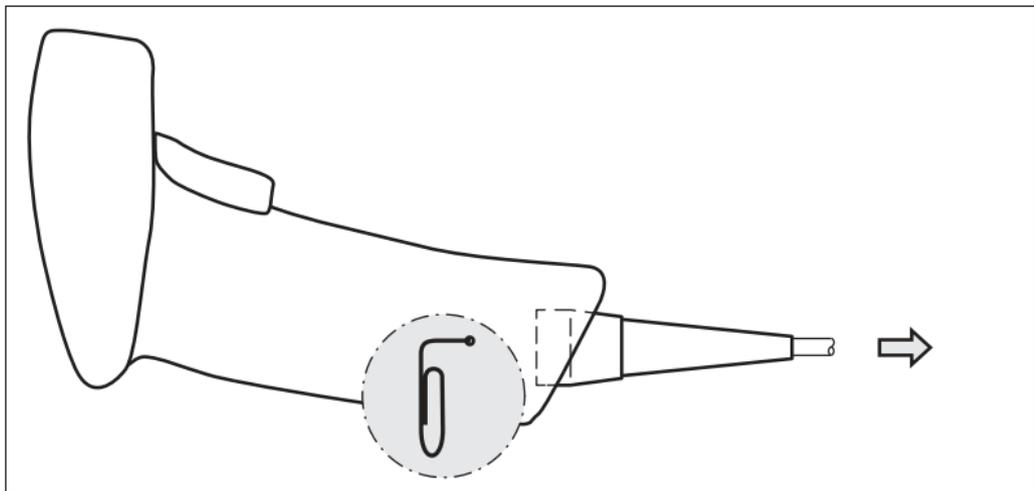
2. Make sure that the cable audibly snaps into place.

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▶ Removing the Cable

1. Insert a thin object such as a straightened paper clip into the hole at the bottom of the handle at the side.

2. Carefully pull the cable complete with RJ50 plug out of the handle.

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3.2   Establishing a USB Connection

▶   Establishing a USB Connection

1. Insert the USB plug on the connection cable into a free USB port on the PC. This step can be carried out even during operation.

2. Wait approx. 2 seconds.

3. If the connection is successful, the function indicator lights up green, an acoustic signal sounds, and the handheld reader vibrates.

     ↳ The handheld reader is ready for operation.

3.3   Keyboard Mode

▶   Activating Keyboard Mode

Read the following code using the handheld reader.

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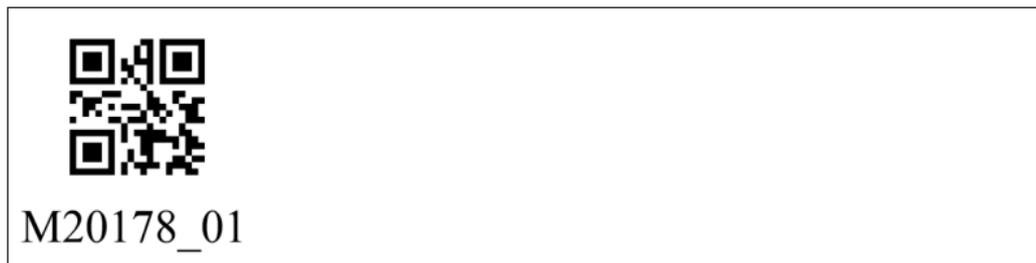
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Figure 3.1   Keyboard Mode

↳ The function indicator on the handheld reader briefly lights up green.

Note

Data is transferred using a US English keyboard layout by default.

If data is not transferred correctly in keyboard mode, modify the keyboard layout.

3.4   Keyboard Layout

You can use the following control codes to modify the keyboard layout for the current operating mode.

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Microsoft Windows

German (Germany)

English (US International)

French (France)

M20188_01

M20198_01

M20185_01

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Italian

M20363_01

Japanese

M20192_01

Russian

M20194_01

Spanish (Spain)

M20195_01

Chinese (Simplified)

M20362_01

US English (default)

M20182_01

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3.5   Establishing an RS-232 Connection

Establishing an RS-232 Connection

1.   Switch off the PC.

2.   Insert the RS-232 plug on the connection cable into the RS-232 port on the PC.

3.   Insert the low-voltage plug on the power supply unit into the low-voltage socket on the RS-232 connection cable.

4.   Connect the mains power plug on the power supply unit to the mains.

5.   Switch on the PC.

↪ Once you have switched on the PC, the handheld reader will switch itself on automatically.

6.   If the connection is successful, the function indicator lights up green, an acoustic signal sounds, and the handheld reader vibrates.

↪ The handheld reader is now ready.

7.   Read the following code using the handheld reader.

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Figure 3.2 RS-232 Connection

↳ The function indicator on the handheld reader lights up green. An RS-232 connection is established.

The handheld reader uses the following RS-232 factory settings:

- 115,200 baud
- 8 data bits
- No parity

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4 Operation

4.1 Reading Codes

The handheld reader reads both very small 2-D codes (e.g., QR codes) and larger 1-D codes (e.g., barcodes). The handheld reader offers a field of view comprising two areas that can be read at the same time. This covers a read range between 4 cm and 31 cm. The optimal read range is 10 cm.

By default, the read range is indicated by two blue bars. However, you can deactivate the display of the blue bars.

Tip

If several codes are located right next to each other, we recommend you cover the codes that you do not wish to read. This prevents you from inadvertently reading another code.

Reading Codes

The handheld reader registers itself with other devices as an input device or keyboard. Before you read a code, start or activate the application to which the read result is to be transferred.

1. Hold the handheld reader so that the contrast between the code and surface is as high as possible. A reading angle between 45° and 90° is optimal. The reading distance is approximately 10 cm, depending on the code type and code size.
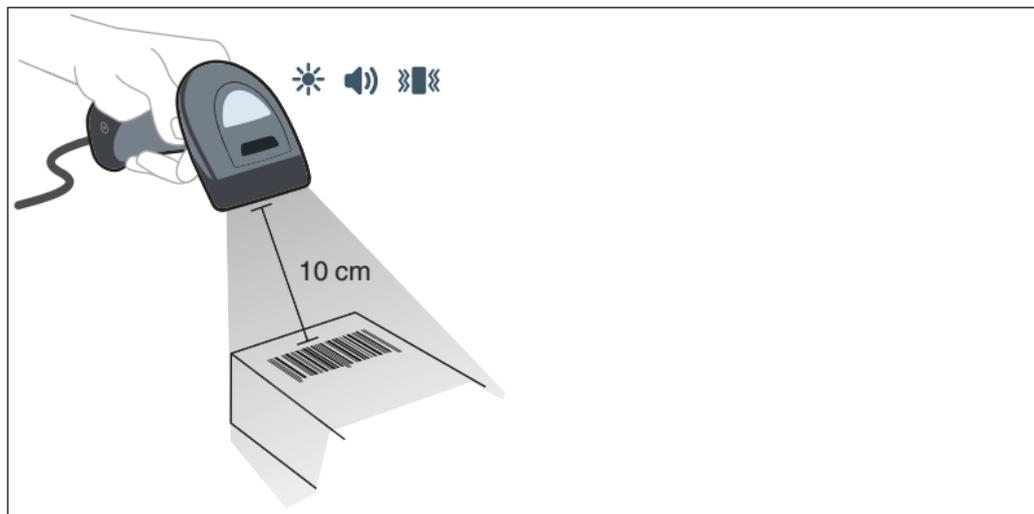
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Figure 4.1   Code recognition

2. Press the trigger button

↳ If the reading process is successful, the function indicator on the handheld reader briefly lights up green. When activated, an audible signal is emitted and the handheld reader vibrates.

3. If the code is not recognized, change the reading angle or the reading distance and press the trigger button again.

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4.2 Factory Setting

Resetting factory settings when a USB connection is established

Read the following code with the handheld reader when the handheld reader is connected to the PC via the USB interface.

Figure 4.2 Resetting factory settings when a USB connection is established

↳ The function indicator on the handheld reader briefly lights up green. The factory settings are reset.

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> Resetting factory settings when a RS-232 connection is established

Read the following code with the handheld reader when the handheld reader is connected to the PC via the RS-232 interface.

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Figure 4.3   Resetting factory settings when a RS-232 connection is established

↳ The function indicator on the handheld reader briefly lights up green. The factory settings are reset.

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