



### Model Number

#### OHV1000-F223-R2

Handheld reader for reading lasered, punched or printed 1-D and 2-D codes

### Features

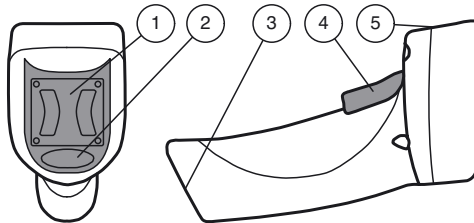
- All common 1-D or 2-D codes can be read
- Dual lens for large read range
- Reading of laser-engraved, etched, or printed codes
- Reads from reflective surfaces
- Programmable with JavaScript
- Audible, tactile, and visual user feedback
- Degree of protection IP54

### Function

The OHV1000 handheld is a compact handheld reader for all common 1-D and 2-D codes applied directly to the surface of a product. For example, the code may have been etched, printed, or laser-engraved on the housing. 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. Feedback comes in the form of a visual or audible signal or a vibration.

Using the Vision Configurator software, rule sets can be created for formatting read results without the need for extensive programming work. This facilitates integration into ERP systems. Data is transferred via USB or RS-232, depending on which connection cable is selected. With its robust housing and IP54 protection, the handheld reader is ideally suited to heavy-duty industrial use.

### Indicating / Operating means

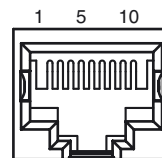


1	Mounting bracket
2	Function indicator
3	10-pin connector socket
4	Trigger button
5	Optics

### Electrical connection

Pin	Signal
1	+VIN
2	USB_DM
3	USB_DP
4	RS 232 TX
5	RS 232 RTS
6	RS 232 RX
7	RS 232 CTS
8	External Trigger
9	not connected
10	Ground

### Pinout



### Technical data

#### General specifications

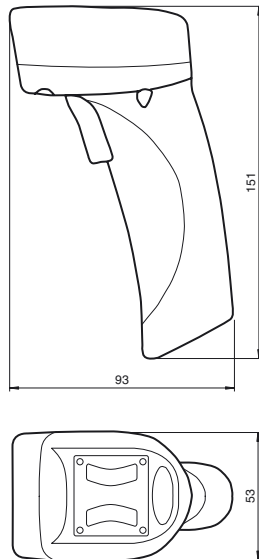
Light type	Integrated LED lightning (red)
Readable codes	<b>1-D Codes:</b> Codabar, Code 11, Code 32, Code 39, Code 93, Code 128, IATA 2 of 5, Interleaved 2 of 5, GS1 DataBar, Hong Kong 2 of 5, Matrix 2 of 5, MSI Plessey, NEC 2 of 5, Pharmacoode, Plessey, Straight 2 of 5, Telepen, Trioptic, UPC/EAN/JAN <b>Stacked 1-D Codes:</b> GS1 Composite, MicroPDF, PDF417 <b>2-D Codes:</b> Aztec Code, Code 49, Codablock F, Data Matrix, Han Xin, MaxiCode, Micro QR, QR Code <b>Postal Codes:</b> Australian Post, Intelligent Mail, Japan Post, KIX Code, Korea Post, Planet, Postnet, UK Royal Mail, UPU ID-tags
Read distance	0 ... 200 mm depending on the code type and reading mode
Modul size	≥ 0.1 mm
Ambient light limit	96890 Lux
Target velocity	Stop

#### Nominal ratings

Camera	
Type	CMOS
Number of pixels	1280 x 960
Image recording	real-time , manually triggered

#### Indicators/operating means

Function indicator	LED green: Data carrier read
<b>Electrical specifications</b>	
Supply	via cable
<b>Interface</b>	
Physical	USB 2.0 , RS-232
<b>Ambient conditions</b>	
Ambient temperature	-20 ... 55 °C (-4 ... 131 °F)
Storage temperature	-30 ... 65 °C (-22 ... 149 °F)
Relative humidity	5 ... 95 % non-condensing
Shock and impact resistance	Withstands multiple drops from 1.8 m / 6 ft onto a concrete surface
<b>Mechanical specifications</b>	
Degree of protection	IP54
Connection	System connector for connecting cable
Material	
Housing	plastic
Mass	130 g
Dimensions	93 mm x 53 mm x 151 mm (l x w x h)
<b>General information</b>	
Scope of delivery	Handheld reader
<b>Dimensions</b>	



## Accessories

### Vision Configurator

Operating software for camera-based sensors

### V45-G-2M-PVC-ABG-USB-G

Adapter cable, RJ50 to USB

### V45-G-2M-PVC-SUBD9

Adapter cable, RJ50 to RS 232

### V50-G-2M-PVC-5V-SUBD25

Adapter cable, RJ-50 to D-Sub 25

### OHV1000-BRACKET

Bracket for OHV1000-F223-R2

### V19S-G-1,7/3M-PVC-V50

Adapter cable, M12 8-pin to RS 232

### OHV-F230-B17

PROFINET Gateway for OHV handheld

Other suitable accessories can be found at [www.pepperl-fuchs.com](http://www.pepperl-fuchs.com)