

# OPN 2002

Pocket Memory Scanner  
with Bluetooth



The OPN 2002 Bluetooth memory scanner combines convenient barcode data collection with flexible communication options. The device allows storage and removal of barcode scans. The final collection can be transmitted by cabled or wireless interface, both options are provided.

## Product Features

### Bluetooth & USB communication interface

For data transmission to a Bluetooth hosting device, two profiles are available on the OPN 2002. The SPP profile allows the user to use a data loading tool and configure some Bluetooth transmission settings. For direct transmission without using any tools the HID profile will fit the immediate wireless transfer needs. In occasions where Bluetooth is not provided, access by the USB port enables (cabled) data transfer to any USB device.

### Scanning control by two buttons

Using this high performance laser scanner is very easy – scan a barcode and it will be stored automatically. When you make a mistake, the lower button allows you to re-scan the barcode in order to remove the item from the memory.

### Wide storage & large capacity

Over 25.000 codes can be stored and removed by the user at any time.

### Lightweight

Large application flexibility is provided in this lightweight device of less than 30 grams (1 ounce).

Cabled

**Wireless**

Stationary

OEM

**OPTICON**  
always scanning for new ID's

## Specifications

# OPN 2002 Pocket Memory Scanner with Bluetooth

### Electrical specifications

Main battery pack: Lithium-Ion polymer rechargeable (240 mAh)  
Main battery pack operating time: over 7 hours  
Charging method: The main battery in the scanner will be charged through the 10-bay cradle or USB cable.  
Battery charging time: Ca. 2.5 hours

### Optical specifications

Light source: 650 nm visible laser diode  
Scan method: vibrating mirror  
Scan rate: 100 scans/sec  
Decode rate: 100 decodes/sec  
Reading pitch angle: -35 to 0°, 0 to +35°  
Reading skew angle: -50 to -8°, +8 to +50°  
Reading tilt angle: -20 to 0°, 0 to +20°  
Curvature: R>15 mm (EAN8), R>20 mm (EAN13)  
Min. PCS value: 0.45  
Depth of field: at PCS 0.9, UPC  
60 - 570 mm / 2.36 - 22.44 in (res. 1.0 mm / 39 mil),  
40 - 360 mm / 1.57 - 14.17 in (res. 0.5 mm / 20 mil),  
40 - 220 mm / 1.57 - 8.66 in (res. 0.25 mm / 10 mil),  
40 - 120 mm / 1.57 - 4.72 in (res. 0.15 mm / 6 mil),  
50 - 100 mm / 1.97 - 3.94 in (res. 0.127 mm / 5 mil)

### Communication specifications

Interface USB: ver. 1.1, VCP  
Interface Bluetooth: ver. 1.2  
Output power level: Class 2  
Profile: SPP, HID  
Operation range: 10 m  
Connection mode: 1 to 1  
Operation mode: master  
Security mode: authentication, encryption

### Identification

Supported barcode symbologies (1D): JAN/UPC/EAN (WPC) incl. add on, Chinese Post, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Korean Postal Authority code, Matrix 2of5, MSI/Plessey-JK/Plessey, RSS, S-Code, Telepen, Tri-Optic  
Supported 2D code symbologies: MicroPDF417, PDF417

### Functionality

FlashROM: 1 MB (Program storage + >25.000 barcodes + time stamp)  
Memory RAM: 1 MB  
Microprocessor: 32 bits  
Real time clock: Quartz RTC, time and date programmable, leap year handling, (accuracy +/- 60 sec./month)  
Keyboard: 1 scan button, 1 function key

### Environmental specifications

Temperature in operation: 0 to 50 °C / 32 to 122 °F  
Temperature in storage: -20 to 60 °C / -4 to 140 °F  
Humidity in operation: 20 - 85 % (non-condensing)  
Humidity in storage: 20 - 85 % (non-condensing)  
Ambient fluorescent light rejection: 3,000 lx max.  
Ambient white light rejection: 3,000 lx max.  
Ambient direct sun light rejection: 50,000 lx max.  
Protection against dust and moisture, according to IEC529: IP 42

### Physical specifications

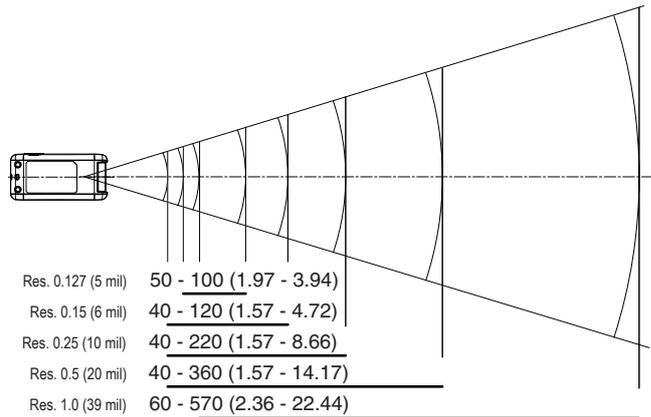
Dimensions: 32 x 62 x 16 mm / 1.26 x 2.44 x 0.63 in  
Weight body: Ca. 29 g / 1.0 oz

### Regulatory

Laser safety class: JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II  
Product compliance: CE, FCC, VCCI, RoHS

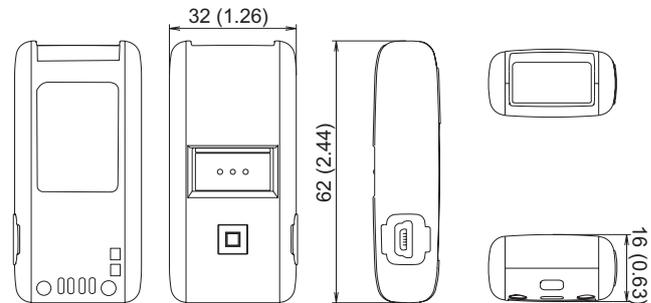
### Depth of field

Unit: mm (in)



### Dimensions

unit: mm (in)



### Enclosed items

USB cable, Neck strap

### Accessories

Sold separately  
AC USB adapter  
CRD 2000-U10: 10-bay charging and USB communication cradle  
CRD 2000-RU10: 10-bay charging and USB + RS232 communication cradle

### Conditions

To be determined: Availability & Ordering quantity