Description

NOTIFICATION **DISCONTINUED** | *Alternatives can be found under the 'Related products' tab, or contact us for assistance.*
The information below is for reference purposes only.

1D barcode Bluetooth USB VCP-only IP42 iPhone iPad

Model   : **Opticon OPN-2002 (12030)**
Groep   : *Data collector - Pocket Memory Scanner with Bluetooth*
Datasheet: **Opticon OPN2002**
Modellen : **Bekijk alle modellen van dit type**

Opticon OPN2002 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 Opticon OPN2002.
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 Opticon OPN2002 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 on the Opticon OPN2002 and removed by the user at any time.

Lightweight
Large application flexibility is provided in this lightweight Opticon OPN2002 of less then 30 grams (1 ounce).

Specifications

- Opticon OPN-2002 Pocket Memory Scanner with Bluetooth
- Article number: 12030 Opticon OPN-2002

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 +50º
- 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 (view drawing)
- 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 (serial port)
- 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 1D barcode Symbologies: 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-UK/Plessey, RSS, S-Code, Telepen, Tri-Optic
- Supported 2D barcode 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 ºF
- Temperature in storage: -20 to 60 °C / -4 to 140 ºF
- 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 sunlight 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 (view drawing)
- 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

Warranty

- 2 year Manufacturer warranty / Fabrieks garantie

Downloads

- **Firmware Application**: Real-Time Scanning and Data Transfer via Bluetooth The OPN2002 ships with a firmware application that enables real-time scanning, Bluetooth pairing and data transfer via Bluetooth. If you need to reinstall this firmware application, download the Opticon **Appload utility**. After downloading and installing Appload, download the **Bluetooth scanning firmware application** and the **user application manual**. Opticon offers an SDK (information below) for resellers who want to develop alternate OPN2002 firmware applications for target markets.

- **Reinstalling Firmware**: Bootloader or OS If you need to reload the OPN2002 bootloader or operating system, first download download the Opticon **Appload utility** and then download and install the **bootloader** or download and install the **operating system RBGV0xxx**.

- **Free OPN2002 SDK**: Create Custom Firmware Applications The OPN 2002 SDK is called the C Library Kit. Applications are written in C and are compiled with the WinARM GCC project. The compiler, SDK, all necessary files, sample code and examples are provided. Download the **OPN2002 C Library Kit**.

- **USB Drivers**: Download USB **drivers** for the OPN2002.

Enclosed items

- USB client cable for terminal **Article number : 12300**
- Neckstrap **cannot be ordered separately**

Accessories
Sold separately

- DMT-1 Docking Station **Article number : DMT-1**
- CMT-6 - 6-bay Docking Station **Article number : CMT-6**
- CMT-30 - 30-bay Docking Station Cabinet **Article number : CMT-30**
- Handstrap **Article number : 10225**
- CRD 2000-RU10: 10-bay charging and USB + RS232 communication cradle **Article number : 12031**
- Power supply 5,0V/1A incl EU plug **Article number : USBCHARGE_NET**
- Car charging adapter **Article number : USBCHARGE_CAR**
- Universal Menubook **Article number : 10961**