OPTICON

OPN2000 Series

Beyond Small. It's Supreme.

Ideal tool for:

- ✔ Healthcare
- ✔ Market Research
- ✔ Electronic Ordering
- ✔ Real-time Reporting

648297

Scan   Communicate

OPTICON

OPN2000 SERIES
POCKET MEMORY SCANNER
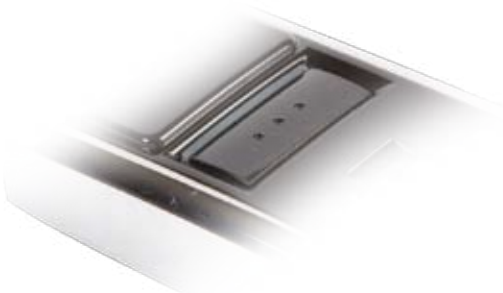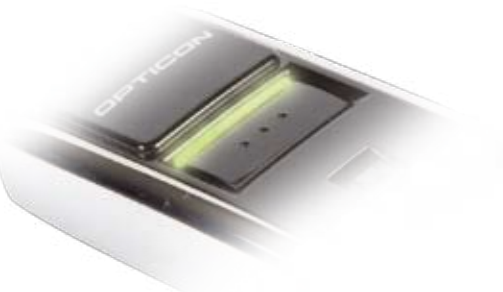
GET SELF-CONTROL

+ CLEAR / FUNCTION KEY

Barcodes can be removed with

the clear button.

+ SCAN KEY

The scan button scans a barcode.

+ LED INDICATOR

The status LED indicates users to the status

of the scanning operation.

+ USB CONNECTOR

The USB interface connects to all USB devices.

It is used for charging the internal battery and

data transfer.

+ LASER ENGINE

The laser beam provides fast barcode scanning.

OPTICON

OPN2001

The OPN2001 is equipped with a USB interface for battery charging. Moreover, captured data can easily be transferred to a host computer.

OPN2002

Apart from a USB interface, the OPN2002 is additionally equipped with Bluetooth for wireless connection and real-time communication. Multiple memory scanners can be charged simultaneously in the dedicated 10-bay cradle. The cradle can also be used for wired communication to the PC.

"Provide transparency and optimize productivity"

SMALL & LIGHTWEIGHT

Full function does not require large dimensions. The OPN2000 series can be held between two fingers, weighs no more than 30 grams and can be taken everywhere.
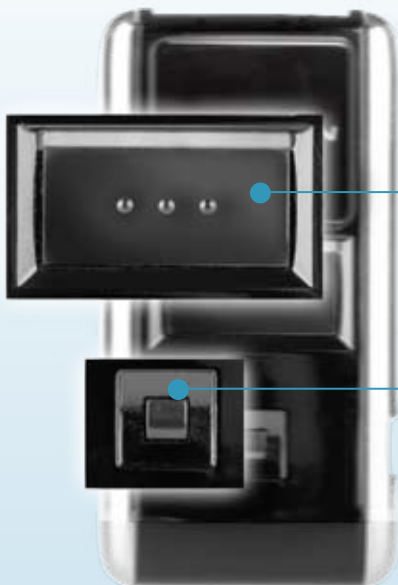
EASY COLLECTION

This high performance laser scanner is easy in use. Scan a barcode and it will be stored automatically. When you make a mistake, the clear button allows you to remove the item from the memory.

+ STORAGE

The OPN2001 can store over 15.000 barcodes. The OPN2002 can store even more barcodes, however this is dependent from the application.

+ SCAN BARCODES

Add barcode items to memory.

+ CLEAR BARCODES

Delete barcode data from memory.

Communicate

DATA TRANSFER TO THE HOST

+ TRANSFER BY USB

supported by all OPN2000 models
Transfer the scanned barcode data
to a PC.

+ TRANSFER BY BLUETOOTH Bluetooth™

supported by the OPN2002
Use the Bluetooth manager on your PC to connect the
scanner and transfer the scanned barcode data.

+ TRANSFER BY MULTI CRADLE

supported by the OPN2002
The data on multiple OPN2002's can be transferred to the PC by RS232 or USB interface when the
scanners are placed in the cradle.

CHARGING

It takes about 2.5 hours to completely charge
the empty battery of an OPN2000 model.

+ OPN2001

Use the dedicated USB cable to charge
the OPN2001.

+ OPN2002

Charge the OPN2002 by placing the scanner
in the dedicated 10-bay cradle, or use the
dedicated USB cable
for charging.

VERSATILE DATA COLLECTION

The OPTICON product range does also contain
data collectors with several navigation and
control options. They support an extended
variety in communication features. For more
details refer to the separate documentation of
the Data Collectors.

Healthcare

Applications

- Home care registration
- Activity reporting
- Facility tracking

With this series of pocket memory scanners, Opticon offers the smallest scanner in the market, especially suitable for the healthcare branch. Because of the simple 2-button way of working, this device is the ideal registration tool for the care providing staff. With the OPN2000 series it is possible to create an efficient administration report of the care for a patient or client. This report can be sent and uploaded to the host system. Improve efficiency and enable employees to maintain a high quality of care!

Market Research

Applications

- Article registration
- Creating shopping reports
- Price capturing

In order to understand purchase behavior and shopping patterns, market research organizations equip their consumer panels with small scanners. This is a user-friendly and easy-to-implement way. It gives marketeers a valuable insight into consumer shopping behavior. After scanning the barcodes on products, a cable can simply be connected to a computer, transferring the barcode data to the research organizations by Internet.

Electronic Ordering

Applications

- Accurate ordering
- Electronic item capturing
- Inventory keeping

Trade enterprises are trying to improve and fasten the ordering system for their customers. Many order on a regular basis. Online ordering keeps customers from running out of stock. With the OPN2000 series customers can easily scan the barcode on the (almost) empty boxes in their own warehouse with a simple push on the button. The mobile devices can be taken through the entire warehouse.

Real-time Reporting

Applications

- Wireless data transfer
- Connection to Bluetooth devices
- Real-time tracking

Use the benefits of Bluetooth for real-time server connection and belt printer options. Wireless connectivity to near-by stations increases the management options. Location-based registrations can be monitored continuously from a central server and the inside enterprise activities can be updated any time.

Operation
- CPU: 32-bit
- O/S: Proprietary
- Software:
  OPN2002: Programmable in C-language. Software development kit with WinARM compiler free downloadable
- RTC: Supports year, month, day, hour, minute, second (leap year supported)

Memory
- FlashROM:
  OPN2001: 512 kB (Program storage + >15.000 barcodes + time stamp)
  OPN2002: 1 MB (Program storage + >25.000 barcodes + time stamp)
- RAM:
  OPN2001: 64 kB
  OPN2002: 1 MB

Operating indicators
- Visual: 1 LEDbar (red/green/orange)
- Non-visual: Buzzer

Operating keys
- Entry options: 2 keys total,
  OPN2001: 1 clear key, 1 scan key
  OPN2002: 1 function key, 1 scan key

Communication
- USB: Mini USB, Ver. 1.1, VCP
- Bluetooth:
  OPN2002: Ver. 1.2, SPP, HID, 1 to 1 connection, master mode, authentication and encryption

Power
- Rechargeable battery:
  OPN2001: Lithium-Ion 3.7V, 150mAh
  OPN2002: Lithium-Ion Polymer (240mAh)
- Operating time:
  OPN2001: 1.000 scans (1 scan / 5 sec)
  OPN2002: Ca. 7 hours
- Data retention time OPN2002: Ca. 72 hours
- Charging method: Enclosed USB cable
  Extra OPN2002: Separate cradle CRD2000 series
- Battery charging time: Ca. 2.5 hours

Barcode scanner Optics
- Light source: 650 nm visible laser diode
- Scan method: Vibrating mirror
- Scan rate: 100 scans/sec
- Reading pitch angle:
  OPN2001: -30 to 0°, 0 to +30°
  OPN2002: -35 to 0°, 0 to +35°
- Reading skew angle: -50 to -8º, +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: At PCS 0.9 UPC
  60 - 570 mm / 2.36 - 22.44 in (1.0 mm / 39 mil),
  40 - 360 mm / 1.57 - 14.17 in (0.5 mm / 20 mil),
  40 - 220 mm / 1.57 - 8.66 in (0.25 mm / 10 mil),
  40 - 120 mm / 1.57 - 4.72 in (0.15 mm / 6 mil),
  50 - 100 mm / 1.97 - 3.94 in (0.127 mm / 5 mil)

Supported Symbologies
- Barcode (1D): JAN/UPC/EAN incl. add on, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
- Postal code: Chinese Post, Korean Postal Authority code
- 2D code: only OPN2002: MicroPDF417, PDF417

Durability
- Temperature in operation:
  OPN2001: 0 to 40 °C / 32 to 104 ºF
  OPN2002: 0 to 50 °C / 32 to 122 ºF
- Temperature in storage: -20 to 60 °C / -4 to 140 ºF
- Humidity in operation: OPN2002: 20 - 85% (non-condensing)
- Humidity in storage: OPN2002: 20 - 85% (non-condensing)
- Ambient light immunity:
  White 3,000 lx max, Fluorescent 3,000 lx max,
  OPN2001: Direct sun 50,000 lx max
  OPN2002: Direct sun 80,000 lx max
- Protection rate: IP 42

Physical
- Dimensions (w x h x d): 32 x 62 x 16 mm / 1.26 x 2.44 x 0.63 in
- Weight body:
  OPN2001: Ca. 28 g / 1.0 oz (incl. battery)
  OPN2002: Ca. 29 g / 1.0 oz (incl. battery)
- Case: ABS, Black

Regulatory & Safety
- Product compliance: CE, FCC, VCCI, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

Enclosed items
- USB cable
- Neck strap

Sold separately
OPN2002:
- CRD2000RU10 Cradle: Multi-cradle, 10 slots, RS232 + USB communication, charging

Models

	OPN 2001	OPN 2002
Communication		
• USB	●	●
• Bluetooth		●
Accessories		
Enclosed • USB cable	●	●
Separate • Multi-cradle		●