

# OPTICON

## OPH1004

Beyond Stylish. It's Solid.



Ideal tool for:

- ✓ Retail
- ✓ Healthcare
- ✓ Market Research
- ✓ Warehouse Management



Scan



Communicate

# OPTICON

## FAST AND AGGRESSIVE SCANNING PERFORMANCE

The OPH1004 is an elegant and reliable portable terminal. For data collection, the terminal comes with 16MB memory, accommodating regular inventories. The elegant design with soft side grips provides the user comfort when handling this lightweight scanner.



### + SCANNING

The high performance laser scanner provides a fast and accurate scan and is immediately ready for the next scan even when the barcodes are printed with low contrast or high density.



### + DURABILITY

The housing of the OPH1004 is sealed up to IP 54 standards holding up well in environments where water and dust resistance are required. The scanner withstands multiple drops up to 1.5 meters (5 feet) onto concrete.

### + MEMORY

The on-board memory of 16MB provides enough space to run business applications and store collected data without the need to worry about the storage capacity. In case of sudden battery exhaustion, the back-up function prevents loss of data.

### + CHARGING AND COMMUNICATION

The terminal transmits data via IrDA (batch method), usually by a dedicated cradle. These cradles are charging and communication devices especially developed for the OPH1004.

3 types of cradles are available:

- ✓ **CRD1001:** for Serial connection (RS232, USB)
- ✓ **CRD1002:** for Modem connection
- ✓ **CRD1003:** for GSM connection



**CRD1001**



**CRD1002**



**CRD1003**

## ✓ Retail



### Applications

- Price checking
- Loss prevention
- Accident/theft reporting
- Stock management
- Merchandise control
- Order entry

Work on the spot and connect later to the central Point of Sale server. With this barcode scanning and data collection terminal all kinds of transactions as encountered on the shop floor or anywhere else can be updated. Looking up extended article information, expected lead times or updating quantities can be done with ease.

## ✓ Healthcare



### Applications

- Intramural care efficiency
- Prescription tracking
- Laboratory surveys
- Medication dispensing
- Bedside scanning
- Pharmacy management
- Patient record tracking

Barcodes and barcode scanners bring information to care professionals and healthcare information providers in order to improve patient safety. Barcodes can also be a reference in generating reports of the entire care process including treatments, instrument checks, prescription orders and bedside scanning. The OPH1004 provides efficient administration and error free care.

## ✓ Market Research



### Applications

- Article registration
- Price capturing
- Automated questioning
- Stimulus response survey
- Creating shopping reports

Getting insight in your target market requires extensive information about consumer shopping behavior. The OPH1004 enables quick key operation for automated questioning and incentive research. Consumer panels can easily upload questionnaires and collect information by scanning a barcode on a product. Additionally a menu can guide the consumer through the questions. All collected information is sent to the central server at once where it can be used by market researchers in order to optimize the decision making process.

## ✓ Warehouse Management



### Applications

- Shelf replenishment
- Inventory management
- Storage locations
- Bulk supplies
- Floor materials

Barcodes on the shelf provide reliable and fast tracking. This simple-to-use terminal scans and stores all stock and order details. Overstocks and wrong pickings can be minimized, while managing additional data by keypad entry can be maximized. All participants in the supply chain, from logistic services and distribution centers to stock rooms, can profit from this effective collection tool.

## + SOFTWARE DEVELOPMENT KIT



Customized business applications can be developed using the SDK (free downloadable). Supporting C-language, a versatile amount of functionalities can be programmed.

## + Basic Product Specifications

### Operation

- CPU: ARM7 32-bit
- O/S: Proprietary
- Software: 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: 4 MB
- RAM: 16 MB RAM

### Display

- Size: 128 x 128 pixels
- Font size: 6x6 / 6x12 / 8x8 / 8x16 / 12x24 dots

### Operating indicators

- Visual: Dual-color scanning indication (red/green)
- Non-visual: Buzzer

### Operating keys

- Entry options: 23 keys total,  
12 key (alpha)numeric keypad,  
2 navigation keys,  
4 function keys,  
3 control keys,  
1 power key,  
2 hot keys,  
1 scan key

### Communication

- IrDA: Ver. 1.2, baudrate 9600 bps - 115.2 kbps, FiR ready

### Power

- Rechargeable battery: Lithium-Ion 3.7V 1100mAh
- Backup battery: Lithium (CR2032)
- Operating time: Ca. 80 hours (1 scan / 5 sec)
- Data retention time: More than 7 days
- Charging method: Separate cradle CRD1000 series with spare battery bay

### Barcode scanner Optics

- Light source: 650 nm visible laser diode
- Scan method: Vibrating mirror
- Scan rate: 100 scans/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 (EAN8), R>20 (EAN13)
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9, Code 39  
70 - 450 mm / 2.76 - 17.72 in (1.0 mm / 39 mil),  
50 - 320 mm / 1.97 - 12.60 in (0.5 mm / 20 mil),  
50 - 200 mm / 1.97 - 7.87 in (0.25 mm / 10 mil),  
55 - 120 mm / 2.17 - 4.72 in (0.15 mm / 6 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: Composite Codes, MicroPDF417, PDF417

### Durability

- Temperature in operation: -10 to 50 °C / 14 to 122 °F
- Temperature in storage: -10 to 60 °C / 14 to 140 °F
- Ambient light immunity: White 4,000 lx max, Fluorescent 4,000 lx max, Direct sun 80,000 lx max
- Drop test: 1.5 m / 5 ft drop onto concrete surface
- Protection rate: IP 54

### Physical

- Dimensions (w x h x d):  
55 x 136 x 23 mm / 2.17 x 5.35 x 0.91 in
- Weight body: Ca. 140 g / 4.9 oz (incl. Lithium-Ion 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

- Rechargeable battery
- Hand strap

### Sold separately

- CRD1001 Cradle: Serial communication, charging
- CRD1002 Cradle: Modem communication, charging
- CRD1003 Cradle: GSM/GPRS communication, charging