

# OPH-1005

## Laser scanner

The OPH-1005 is a reliable, durable and affordable proprietary mobile computer with a vibrant color display. It features an elegant design and a high speed, integrated laser scanner that quickly and accurately scans barcodes.



## Highlights

- Small, rugged mobile terminal featuring an elegant design
- Ideal solution for asset management, inventory control and mobile sales automation
- Vibrant, TFT LCD QVGA color display with adjustable backlight
- Integrated laser barcode scanner: 100 scans/second
- Enhanced, easy to use 23-key keyboard
- Features 128 MB FlashROM, 4 MB RAM and 4 MB SRAM
- Withstands 1.5 m drop to concrete
- Features IP54 rating—comprehensive sealing against dust and moisture
- Compact size and weight: 55 x 136 x 23 mm (W x H x D) and 140 grams
- Stores data onboard for later transfer via IrDA through a charging/communication cradle (sold separately)
- Two communication/charging cradle choices available: CRD-1004 (USB/Ethernet) and CRD-1006 (USB/RS232)
- Programmable—free Opticon SDK enables solution providers to create customized scanning solutions
- Backed by a two year warranty

# OPH-1005

## Product Specifications

### Operation

**CPU:** 32-bit, 96 MHz

**O/S:** Proprietary

**Software:** Programmable in C-language. Software development kit with compiler free downloadable

**RTC:** Supports year, month, day, hour, minute, second (leap year supported)

### Memory

**Nand Flash:** 128 MB

**Flashrom:** 4 MB

**RAM:** 4 MB SRAM

### Display

**Type:** TFT LCD QVGA color display with backlight

**Size:** 2", 320 x 240 pixels

### Operating indicators

**Visual:** 1 LED (red/green/orange)

**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, 1 scan key

### Communication

**IrDA:** Ver 1.2 physical layer, baudrate 1200 bps - 115.2 kbps

### Power

**Rechargeable battery:** Lithium-Ion 3.7V 1100 mAh

**Backup battery:** Yes for RTC

**Operating time:** Ca. 40 hours (backlight off, 1 scan / 10 sec)

**Data retention time:** Indefinitely

**Charging method:** Separate cradle CRD-1004, CRD-1006

### Barcode Scanner Optics

**Light source:** 650 nm visible laser diode

**Scan rate:** 100 scans / seconds

**Reading pitch angle:**  $\pm 35^\circ$

**Reading skew angle:**  $-50^\circ$  to  $-8^\circ$ ,  $+8^\circ$  to  $+50^\circ$

**Reading tilt angle:**  $\pm 20^\circ$

**Curvature:**  $R \geq 15$  mm (EAN8),  $R \geq 20$  mm (EAN13)

**Min. pcs value:** 0.45

**Depth of field at code 39:**

55 - 120 mm (0.15 mm) /

2.17 - 4.72 in (6 mil),

50 - 200 mm (0.25 mm) /

1.97 - 7.87 in (10 mil),

50 - 320 mm (0.5 mm) /

1.97 - 12.60 in (20 mil),

70 - 450 mm (1.00 mm) /

2.76 - 17.72 in (39 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  $50^\circ\text{C}$  /  $14$  to  $122^\circ\text{F}$

**Temperature in storage:**  $-20$  to  $60^\circ\text{C}$  /  $-4$  to  $140^\circ\text{F}$

**Humidity in operation:** 20 - 85% (non-condensing)

**Humidity in storage:** 20 - 85% (non-condensing)

**Ambient light immunity:** incandescent 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:** IP54

### Physical

**Dimensions (WxHxD):** 55 x 136 x 23 mm / 2.17 x 5.35 x 0.91 in

**Weight body:** Ca. 140 g / 4.9 oz (incl. battery)

**Case:** ABS, Black

### Regulatory & Safety

**Product compliance:** CE, FCC, RoHS, IEC60825-1 Class 2, FDA CDRH Class II, EN55022, EN55024

### Items

**Enclosed:** Wrist strap, standard battery

**Sold separately:** Rechargeable battery, CRD-1004 cradle (ethernet, communication, charging), CRD-1006 cradle (serial communication, charging), power supply for cradle