OPH-1005
Laser scanner

The OPH-1005 is a reliable, durable and affordable handheld 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, baurate 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:** ± 35°
- **Reading skew angle:** -50 to -8°, +8 to +50°
- **Reading tilt angle:** ± 20°
- **Curvature:** R ≥ 15 mm (EAN8), R ≥ 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

- **2D code:** Composite Codes, MicroPDF417, PDF417

### Durability

- **Temperature in operation:** -10 to 50 °C / 14 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 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

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