

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 to -8° , $+8$ 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

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