

# OPH-1005

## Handheld Mobile Computer



### 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 5' drop to concrete
- Features IP54 rating—comprehensive sealing against dust and moisture
- Compact size and weight: 2.17"W x 5.35"L x 0.91"D and 4.9 ounces
- 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:** RX62N 32-bit MCU OS: 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

**FONT SIZE:** 6x6 / 6x12 / 8x8 / 8x16 / 8x19 / 11x19 / 12x24 dots / 16x32

### OPERATING INDICATORS

**VISUAL:** Dual-color LED (red/green)

**AUDIBLE:** 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:** Version 1.2, baudrate 1200 bps - 115.2 kbps

### POWER

**RECHARGEABLE BATTERY:** Lithium-Ion 3.7V 1100mAh

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

**DATA RETENTION TIME:** 24 hours

**CHARGING METHOD:** Separate cradle CRD-1004, CRD-1006

### 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)

**MINIMUM PCS VALUE:** 0.45

**DEPTH OF FIELD AT PCS 0.9, CODE 39:**

39 mil (1.0 mm) 2.76 - 17.72 in (70 - 450 mm)

20 mil (0.5 mm) 1.97 - 12.60 in (50 - 320 mm)

10 mil (0.25 mm) 1.97 - 7.87 in (50 - 200 mm)

6 mil (0.15 mm) 2.17 - 4.72 in (55 - 120 mm)

### 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

**BARCODE (POSTAL CODES):** Chinese Post, Korean Postal Authority code

### DURABILITY

#### TEMPERATURE:

Operation: 14 - 122 °F (-10 - 50 °C)

Storage: -4 - 140 °F (-20 - 60 °C)

#### HUMIDITY:

Operation: 20 - 85% (non-condensing)

Storage: 20 - 85% (non-condensing)

#### AMBIENT LIGHT IMMUNITY:

White: 4,000 lx max

Fluorescent: 4,000 lx max

Direct sun: 80,000 lx max

**DROP TEST:** 5 ft (1.5 m) drop onto concrete surface

**PROTECTION RATE:** IP 54

### PHYSICAL

**DIMENSIONS (WXHXD):** 2.17 x 5.35 x 0.91 in (55 x 136 x 23 mm)

**WEIGHT BODY:** Ca. 4.9 oz (140 g) (incl. Lithium-Ion battery)

**CASE:** ABS, Black

### REGULATORY AND SAFETY

**PRODUCT COMPLIANCE:** CE, FCC, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

### ENCLOSED ITEMS

**HAND STRAP**

### SOLD SEPARATELY

**CRD-1004 CRADLE:** charging/communication (USB/Ethernet) cradle

**CRD-1006 CRADLE:** charging/communication (USB/RS232) cradle

**REPLACEMENT BATTERY**

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