

# OPH-3001

## Handheld Mobile Computer



### Highlights

- Durable, reliable and affordable mobile terminal
- Ideal solution for asset management, inventory control and mobile sales automation
- Vibrant, TFT LCD QVGA color display with adjustable backlight
- Intuitive 22-key keyboard
- Integrated laser barcode scanner: 100 scans/second
- Features 4 MB FlashROM, 2 MB SRAM and 128 MB NAND Flash
- Communication and battery charging through mini USB 2.0, VCP
- Withstands 5 ft drop to concrete
- Features IP54 rating – comprehensive sealing against dust and moisture
- Compact size and weight: 2.29" x 7.12" x 0.94" (LxWxH) and 5.5 ounces
- Programmable: free Opticon SDK enables solution providers to create customized scanning solutions
- Backed by a two year warranty

# OPH-3001

## 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

**FLASHROM:** 4 MB

**SDRAM:** 4 MB

**NAND FLASH:** 128 MB

### DISPLAY

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

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

**FONT SIZE:** 6x6 / 6x12 / 8x8 / 8x16 / 12x24 dots

### OPERATING INDICATORS

**VISUAL:** 1 LED (red/green)

**AUDIBLE:** Buzzer

### OPERATING KEYS

**ENTRY OPTIONS:** 22 keys total, 12 key (alpha)numeric keypad, 4 navigation keys, 3 function keys, 1 control key, 1 power key, 1 scan key

### COMMUNICATION

**USB:** Mini USB, Version 2.0, VCP

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

### POWER

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

**BACKUP BATTERY:** Lithium (CR2032)

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

**CHARGING METHOD:** Enclosed USB cable

### BARCODE SCANNER OPTICS

**LIGHT SOURCE:** 650 nm visible laser diode

**SCAN RATE:** 100 scans/sec

**READING PITCH ANGLE:** -25 to 0°, 0 to +25°

**READING SKEW ANGLE:** -40 to -8°, +8 to +40°

**READING TILT ANGLE:** -20° to 0°, 0 to +20°

**CURVATURE:** R>15 mm (EAN8), R>20 mm (EAN13)

**MINIMUM RESOLUTION AT PCS 0.9:** 6 mil (0.15 mm)

**DEPTH OF FIELD:** At PCS 0.9

39 mil (1.0 mm) 3.15 - 11.81 in (80 - 300 mm)

20 mil (0.5 mm) 2.36 - 9.84 in (60 - 250 mm)

10 mil (0.25 mm) 2.36 - 7.87 in (60 - 200 mm)

6 mil (0.15 mm) 2.36 - 5.12 in (60 - 130 mm)

5 mil (0.127 mm) 2.36 - 4.33 in (60 - 110 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-UK/Plessey, S-Code, Telepen, Tri-Optic

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

### DURABILITY

#### TEMPERATURE

Operation: 14 to 122 °F (-10 to 50 °C)

Storage: -4 to 140 °F (-20 to 60 °C)

Charging: 32 to 104 °F (0 to 40 °C)

#### HUMIDITY

Operation: 20 - 85% (non-condensing)

Storage: 20 - 85% (non-condensing)

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

**PROTECTION RATE:** IP 54

### PHYSICAL

**DIMENSIONS (WXHxD):** 2.29 x 7.12 x 0.94 in (58.2 x 180.8 x 23.8 mm)

**WEIGHT BODY:** Ca. 5.5 oz (156 g) (incl. battery)

### REGULATORY AND SAFETY

**PRODUCT COMPLIANCE:** CE, FCC, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II, EN55022, EN55024

### ENCLOSED ITEMS

Hand strap, USB cable

### SOLD SEPARATELY

Rechargeable battery

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