

OPH-5000i

Handheld Mobile Computer



Highlights

- Durable, reliable and affordable mobile terminal
- Ideal solution for asset management, inventory control and mobile sales automation
- Vibrant TFT color LCD display with adjustable backlight
- Intuitive 22-key keyboard
- Integrated high speed 2D imager barcode scanner
- Communication via Wireless LAN, Bluetooth or USB interface
- Built-in NFC tag for easy pairing
- Supports Apple MFi, SPP and HID Bluetooth profiles for added flexibility
- Withstands 5 foot drop to concrete
- Features IP54 rating—comprehensive sealing against dust and moisture
- Compact size and weight: 18.1" x 53.5" x 11.9" (WxLxD) and 4.2 ounces
- Dedicated cradle available
- Programmable: free Opticon SDK enables users to create customized scanning solutions
- Backed by a two year warranty

OPH-5000i

Product Specifications

OPERATION

CPU: 32-bit, 96 MHz

OS: Proprietary

SOFTWARE: Programmable in C-language using free downloadable software development kit (compiler included)

RTC: Supports year, month, day, hour, minute, second

DISPLAY

TYPE: TFT color LCD with backlight

SIZE: 1.77", 128 x 160 pixels

OPERATING INDICATORS

VISUAL: 1 LED (red/green/blue)

AUDIBLE: Buzzer, vibrate

OPERATING KEYS

ENTRY OPTIONS: 22 keys total, 10 key numeric keypad, 3 navigation keys, 8 function keys, 1 power key

COMMUNICATION

USB: MicroUSB, version 2.1, HID / COM

BLUETOOTH: Version 2.1

W-LAN: Wi-Fi, IEEE 802.11 b/g/n

NFC: ISO14443 (type A & B), JISX6319-4

POWER

RECHARGEABLE BATTERY: Lithium-Ion 3.7V 1100 mAh

OPERATING TIME: Ca. 20 hours (when a barcode is scanned twice every 10 sec)

CHARGING METHOD: MicroUSB cable or CRD-5000 cradle

2D IMAGER OPTICS

LIGHT SOURCE: Green aiming LED, warm white LED

SCAN METHOD: CMOS area sensor, 640 x 480 pixels

SCAN RATE: Up to 100 fps

READING PITCH ANGLE: -65 to 0°, 0 to +65°

READING SKEW ANGLE: -65 to 0°, 0 to +65°

READING TILT ANGLE: 360°

CURVATURE: R>20 mm (UPC), R>16 mm (Codabar)

MIN. RESOLUTION AT PCS 0.9: 4 mil / 0.1 mm

PCS VALUE: 0.2

FIELD OF VIEW: Horizontal 38°, Vertical 28.9°

DEPTH OF FIELD AT CODE PDF417:

6.7 mil (0.169 mm) 1.77 - 4.33 in (45 - 110 mm)

10 mil (0.254 mm) 1.38 - 6.89 in (35 - 175 mm)

DEPTH OF FIELD AT QR CODE:

6.7 mil (0.169mm) 1.38 - 2.95 in (35 - 75 mm)

15 mil (0.381mm) 0.59 - 7.87 in (15 - 200 mm)

DEPTH OF FIELD AT DATA MATRIX:

8.35 mil (0.212mm) 2.16 - 3.35 in (55 - 85 mm)

10 mil (0.254mm) 1.38 - 5.31 in (35 - 135 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-ISSN-IS-MN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey

BARCODE (2D): Aztec Code, Aztec Runes, Chinese Sensible code, Codablock F, Composite codes, Data matrix (ECC200), Passport MRZ (OCR-B), maxi Code (mode 2-5), MicroPDF417, MicroQR Code, PDF417, QR Code

BARCODE (POSTAL CODES): Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET

DURABILITY

TEMPERATURE

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

Storage: -4 to 140 °F (-20 to 60 °C)

HUMIDITY:

Operation: 20 - 85% (non-condensing)

Storage: 20 - 85% (non-condensing)

AMBIENT LIGHT IMMUNITY:

Fluorescent: 10,000 lx max

Direct sun: 100,000 lx max

Incandescent: 10,000 lx max

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

PROTECTION RATE: IP54

PHYSICAL

DIMENSIONS (WxHxD): 1.7 x 5.35 x 1.19 in (44 x 136 x 30.3 mm)

WEIGHT BODY: Ca. 4.2 oz (120 g) (incl. battery)

REGULATORY & SAFETY

PRODUCT COMPLIANCE: CE, FCC, RoHS, VCCI, IEC 62471:2006, IEC 60950, EN60950-1, EMC, EN300 328, EN301 489-1, EN301 489-17, EN62479, EN55024, EN55032 Class A

ITEMS

ENCLOSED: Neck strap, MicroUSB cable, battery

SOLD SEPARATELY: CRD-5000 cradle, power supply

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