

OPH-5000i

2D CMOS Imager

The OPH-5000i is a reliable and durable proprietary mobile computer with WiFi connection and NFC pairing capabilities. It features an elegant design with a high speed, integrated 2D scanner that quickly and accurately scans barcodes.



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 WiFi, Bluetooth or USB interface
- Built-in NFC tag for easy pairing
- Supports Apple MFi, SPP and HID Bluetooth profiles for added flexibility
- Withstands 1.5 m drop to concrete
- Features IP54 rating – comprehensive sealing against dust and moisture
- Compact size and weight: 46 x 136 x 30.2 mm (W x H x D) and 120 grams
- Dedicated cradle available
- Programmable: free Opticon SDK enables solution providers to create customized scanning solutions
- Backed by a two year warranty

OPH-5000i

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

Display

Type: TFT color LCD with backlight

Size: 1.77", 128 x 160 pixels

Operating indicators

Visual: 1 LED (red/green/blue)

Non-visual: 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, ver. 2.1, HID / COM

Bluetooth: Ver 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 read twice every 10 sec)

Data retention time: Indefinitely

Charging method: MicroUSB cable or Wireless charging via CRD-5000

2D Imager optics

Light source: Aiming green 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: 0.1 mm / 4 mil

Min. pcs value: 0.2

Field of view: Horizontal 38°, Vertical 28.9°

Depth of field at code PDF417:

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

35 - 175 mm (0.254 mm) /

1.38 - 6.89 in (10 mil),

Depth of field at QR code:

35 - 75 mm (0.169mm) /

1.38 - 2.95 in (6.7 mil),

15 - 200 mm (0.381mm) /

0.59 - 7.87 in (15 mil)

Depth of field at Data Matrix:

55 - 85 mm (0.212mm) /

2.16 - 3.35 in (8.35 mil),

35 - 135 mm (0.254mm) /

1.38 - 5.31 in (10 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-ISSN-IS-MN, Matrix 2of5, MSI/Plessey, S-Code, Telepen, Tri-Optic, UK/Plessey
Postal code: Chinese Post, Intelligent Mail Barcode, Korean Postal Authority code, POSTNET

2D code: 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

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: Fluorescent 10,000 lx max, direct sun 100,000 lx max, incandescent 10,000 lx max

Drop test: 1.5 m / 5 ft drop onto concrete surface

Protection rate: IP54

Physical

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

Weight body: Ca. 120 g / 4.2 oz (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 (11052)