

# OPH-5000i

## 2D CMOS Imager

The OPH-5000i is a reliable and durable mobile computer with wireless LAN, Bluetooth and USB communication capabilities. It features an elegant, ergonomic design with a high speed, integrated 2D Imager scanner that quickly and accurately scans 1D and 2D 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 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 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-ISMN, 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)