




Description

 **NOTIFICATION DISCONTINUED** | Alternatives can be found under the 'Related products' tab, or contact us for assistance.

The information below is for reference purposes only.

 1D barcode  2D barcode  Windows CE  Bluetooth  Wifi  USB  RS232  GSM  GPRS  IP54

Model : **Opticon PHL-7254 (11520)**

Groep : *Rugged terminal - With Full Keypad, 1D 2D barcode imager, Windows CE 5.0, Bluetooth, WiFi, USB, RS232, GSM, GPRS, IP54*

Datasheet: [Opticon PHL7254](#)

Opticon PHL7254 ruggedized terminal is the most advanced model of the Opticon PHL7000 range. This terminal is equipped with a 2D scan engine, enabling quick scanning of both 1D and 2D barcodes. The full keypad and full color display enable easy readability and data input. Apart from WLAN and Bluetooth, data exchange occurs via GSM or GPRS.

Product Features

Windows® CE 5.0 Operating System

The Opticon PHL7254 is part of the Opticon PHL7000 series consisting of ruggedized terminals, equipped with Windows CE 5.0. All terminals in this range have several wireless communication options. WLAN and Bluetooth are standard available on the Opticon PHL7000 series. Two models are also equipped with GSM and GPRS. Additional, the serial connector provides the option to use a communication cable.

physical design

The physical design of these Opticon PHL7254 terminal offers a convenient balance for user operation with a graphic LCD display and keypad with backlight, providing excellent viewing in dim or bright lighting. The series supports two different keypad variations (alphanumeric and full keypad), with non-erasable keys and three different scan engines (barcode laser scanner, long range barcode laser scanning and 2D CMOS imager). The terminals can withstand drops of 1.5 meter on concrete and are protected from water and dust up to IP 54 standards.

Power

With the 3000 mAh battery (or high capacity 4000 mAh battery) and the high performance processor, the Opticon PHL7000 series can run heavy applications. The internal SD slot can expand the data storage capacity and the accessories enable optimal use of the product.

Specifications

- Opticon PHL-7254 Ruggedized terminal (**Project item**)
- Article number: 11520 Opticon PHL-7254 2D WLAN/BT/GPRS Full-Key

Operation

- CPU: Intel® PXA255 32-bit RISC 400Mhz
- O/S: Windows CE 5.0
- Software: Wordpad, Internet Explorer, Inbox, Active Sync, Messenger, Opticon scanner application, Accessories, Upgradeable via integrated SD
- RTC: Supports year, month, day, hour, minute, second (leap year supported)

Memory

- FlashROM: 64 MB
- RAM: 128 MB SDRAM
- Expansion: Integrated SD

Display

- Type: Graphic Transflective TFT with touch panel, 256K color with adjustable backlight
- Size: 3.5", 240 x 320 pixels
- Mode: Portrait

Operating indicators

- Visual: 2 LEDs (triple-color charging indication & dual-color scanning indication)
- Non-visual: Buzzer

Operating keys

- Entry options: 60 backlit keys total
- 26 alpha-keys and 10 numeric keys
- 4-way navigation keys
- 4 function keys
- 1 custom key
- control keys
- 1 power key
- 2 hot keys
- 3 scan keys

Communication

- RS232: Baudrate 150 bps - 115.2 kbps, serial cable connector
- USB: Ver. 1.1, full speed, serial cable connector client, optional host
- Bluetooth: Ver. 1.2, SPP, DUN, OPP, HID (only keyboard support), output power class 2, range 5-10 m
- W-LAN: 802.11b, WEP, WPA, PSK
- Telecom: GSM/GPRS tri-band 900/1800/1900, Class C
- Audio: Speaker/microphone (mono), headset connector (stereo), GSM headset connector (mono)

Power

- Rechargeable battery: Lithium-Ion 3.7V 3000mAh
- High-capacity battery: Optional 3.7V 4000mAh
- Backup battery: 1 integrated rechargeable backup battery
- Charging method: Enclosed power supply, separate cradle IRU7000, separate car charging adapter
- Battery charging time: Ca. 4 or 5.5 hours when charging through power supply, ca. 5 or 7 hours when charging by cradle Standard battery (resp. Standard or High-capacity battery)

2D Imager Optics

- Light source: Illumination 4 red LEDs 630 nm, aiming 2 green LEDs
- Scan method: CMOS area sensor (gray-scale), 1024 (V) x 1280 (H) Pixels
- Scan rate: Up to 30 fps
- Trigger mode: Manual, multiple read
- Reading pitch angle: -50 to 0°, 0 to +50°
- Reading skew angle: -60 to 0°, 0 to +60°
- Reading tilt angle: 360°
- Curvature: R>15 (EAN8), R>20 (EAN13)
- Min. PCS value: 0.45
- Depth of field: At PCS 0.9, PDF417
- 50 - 215 mm / 1.97 - 8.46 in (0.339 mm / 13 mil),
- 95 - 135 mm / 3.74 - 5.31 in (0.127 mm / 6 mil)

Supported Symbolologies

- Supported 1D barcode Symbologies: JAN/UPC/EAN incl. add on, Codabar/ NW-7, Code 39, Code 93, Code 128, GS1-128 (EAN-128), GS1 DataBar (RSS), IATA, Industrial 2of5, Interleaved 2of5, Matrix 2of5, MSI/Plessey, S-Code, Telepen, UK/ Plessey
- Postal code: Chinese Post, Korean Postal Authority code
- Supported 2D barcode Symbologies: Aztec Code, Aztec Runes, Composite codes, Data Matrix, (ECC200/EC0-140), Maxi Code (mode 2~5), MicroPDF417, Micro QR Code, PDF417, QR code

Durability

- Temperature in operation: -10 to 50 °C / 14 to 122 °F
- Temperature in storage: -20 to 70 °C / -4 to 158 °F
- Humidity in operation: 5 - 95% (non-condensing)
- Ambient light immunity: White 4,000 lx max, Fluorescent 4,000 lx max, Direct sun 80,000 lx max
- Drop test: 1.5 m / 5 ft drop onto concrete surface
- Protection rate: IP 54

Physical

- Dimensions (w x h x d): 91.3/78 x 219.5 x 64.6/42.2 mm 3.59/3.07 x 8.64 x 2.54/1.66 in
- Weight body: Ca. 665 g / 1 lb 7 oz (incl. battery)
- Case: Black

Regulatory & Safety

- Product compliance: CE, FCC, cUL, RoHS

Warranty

- 2 year Manufacturer warranty / Fabrieks garantie

Downloads

Enclosed items

- USB client cable for terminal **Article number : 11463**
- Power supply for PHL-7xxx 5,0V/2,6A **Article number : 11460**
- EU Line power cord **Article number : 11461**
- Rechargeable Battery for PHL-7xxx (3.7V/3Ah) Standard **Article number : 11459**
- Standard Battery cover **Article number : 11504**
- Handstrap **Article number : 11464**
- Stylus pen **Article number : 11465**
- Earphone/Microphone set **Article number : 11462**
- Quick guide **Article number : 11466**
- CF support guide **Article number : 11467**

Accessories

Sold separately.

- RS232 serial cable for PHL-7xxx **Article number : 11475**
- USB host cable for PHL-7xxx **Article number : 11476**
- Rechargeable Battery for PHL-7xxx (3.7V/4AH) High-capacity **Article number : 11470**
- High-cap Battery cover **Article number : 11505**
- Pistol grip (comes with extra stylus pen) **Article number : 11469**
- Earphone set for PHL-7xxx / GSM **Article number : 11569**
- Holster for PHL-7xxx **Article number : 11472**
- RFID card cover **Article number : 11474** (unavailable)
- IRU-7000 Single dock cradle **Article number : 11468**
- Power supply for IRU-7000 Single dock cradle **Article number : 11477**
- USB host client cable for IRU-7000 **Article number : 11573**
- RS232 Communication cable for IRU-7000 **Article number : 90201**
- PHL-7000 Car Mount **Article number : 11695**
- Car charging adapter for PHL-7000 Car Mount **Article number : 11473**
- 4-Slots Battery Charger for PHL-7xxx incl Power supply **Article number : 11471**

Software

- SDK for PHL-7xxx **<http://ftp.opticon.com/PHL7x00>**
- To build applications, first install the appropriate Microsoft development tool (compiler) to be obtained from a local vendor.

Optical specifications on 1D model

- Light source: 650 nm visible laser diode
- Scan method: vibrating mirror
- Scan rate: 100 scans/sec
- Decode rate: 100 decodes/sec
- Reading pitch angle: +35 - +0°, 0 - -35°
- Reading skew angle: -8 - -50°, +8 - +50°
- Reading tilt angle: +20 - +0°, 0 - -20°
- Curvature: R>15 (EAN8), R>20 (EAN13)
- Min. PCS value: 0.45
- Depth of field: at PCS 0.9, Code 39
- 70 - 650 mm / 2.76 - 25.59 inches (res. 1.00 mm / 39 mil),
- 50 - 420 mm / 1.97 - 16.54 inches (res. 0.5 mm / 20 mil),
- 50 - 260 mm / 1.97 - 10.24 inches (res. 0.25 mm / 10 mil),
- 50 - 150 mm / 1.97 - 5.91 inches (res. 0.15 mm / 6 mil),
- 60 - 120 mm / 2.36 - 4.72 inches (res. 0.127 / 5 mil)

Optical specifications on 2D model

- Light source: illumination 4 red LEDs 630 nm, aiming 2 green LEDs
- Scan method: CMOS area sensor (gray-scale)
- Photo sensor: 1024 (V) x 1280 (H) Pixels
- Reading pitch angle: -50 - 0°, 0 - +50°
- Reading skew angle: -60 - 0°, 0 - +60°
- Reading tilt angle: 360°
- Curvature: R>15 (EAN8), R>20 (EAN13)
- Min. Resolution at PCS 0.9: 0.127 mm / 5 mil at PDF 417, 0.1mm / 3.9 mil at Code 39, 0.169 mm, 6.7 mil at Data Matrix, QR Code
- Min. PCS value: 0.45
- Depth of field: at PCS 0.9, PDF417
- 50 - 215 mm / 1.97 - 8.46 in (res. 0.339 mm / 13 mil),
- 95 - 135 mm / 3.74 - 5.31 in (res. 0.127 / 6 mil)
- Field of view: horizontal: 47°, vertical: 37.5°

Models

Options	PHL-7112	PHL-7114	PHL-7214	PHL-7254
W-Lan	◆	◆	◆	◆
Bluetooth	◆	◆	◆	◆
GSM/GPRS		◆	◆	◆
CF-II	◆			
1D barcode scanner	◆	◆	◆	◆
2D barcode scanner				◆
Alphanumeric	◆	◆		
Full keypad			◆	◆