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 Windows CE Bluetooth Wifi USB RS232 GSM GPRS IP54

Model : **Opticon PHL-7214 (11521)**
Groep : *Rugged terminal - With Full Keypad, 1D scan engine, Windows CE 5.0, Bluetooth, WiFi, USB, RS232, GSM, GPRS, IP54*
Datasheet: Opticon PHL7214
Opticon PHL7214 ruggedized terminal is especially suitable for applications where manual data entry is needed next to data collection by scanning. With its full keypad, the Opticon PHL7214 will improve efficiency in the store or warehouse. Communication occurs via WLAN, Bluetooth, GSM or GPRS.

Product Features

Windows® CE 5.0 Operating System
The Opticon PHL7114 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 PHL7214 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-7214 Ruggedized terminal **(Project item)**
- Article number: 11521 Opticon PHL-7214 1D 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, ClassC
- 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)

Barcode scanner Optics

- Light source: 650 nm visible laser diode
- Scan method: Vibrating mirror
- Scan rate: 100 scans/sec
- Reading pitch angle: -35 to 0º, 0 to +35º
- Reading skew angle: -50 to -8°, +8 to +50°
- Reading tilt angle: -20° to 0º, 0 to +20º
- 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 in (1.00 mm / 39 mil),
- 50 - 420 mm / 1.97 - 16.54 in (0.5 mm / 20 mil),
- 50 - 260 mm / 1.97 - 10.24 in (0.25 mm / 10 mil),
- 50 - 150 mm / 1.97 - 5.91 in (0.15 mm / 6 mil),
- 60 - 120 mm / 2.36 - 4.72 in (0.127 / 5 mil)

Supported Symbologies

- Supported 1D barcode Symbologies: 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, ISBN, Industrial 2of5, Interleaved 2of5, Matrix 2of5, MSI/Plessey, Telepen
- Postal code: Chinese Post, Korean Postal Authority code

Durability

- Temperature in operation: -10 to 50 ºC / 14 to 122 ºF
- Temperature in storage: -20 to 70 ºC / -4 to 158 ºF
- 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 60.6/42.2 mm 3.59/3.07 x 8.64 x 2.39/1.66 in
- Weight body: Ca. 660 g / 1 lb 7 oz (incl. battery)
- Case: Black

Regulatory & Safety

- Product compliance: CE, FCC, cUL, RoHS, JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II

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 - -50º, +8 - +50º
- 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			♦	♦