

# PHL 8112

Rugged PDA with barcode laser scanner



The rugged PHL 8112 PDA features an integrated 1D scan engine and a full color 3.5" TFT display, with a numeric (dial) keypad. This product is Bluetooth & WiFi interfaced and Cisco CCX compliant for data capture in mobile business.

## Product Features

### Productivity for your mobile workforce

Microsoft CE 5.0 drives this rugged mobile device. Your workforce will have on-demand access to well known onboard applications for integrated or extended functionality.

### Designed for Heavy use

This PDA with solid housing is sealed well and holds with ease to IP 54 standards. With the choice in power (default 2200 mAh or optional 4000 mAh battery pack, or using enclosed power adapter) the device is prepared to be used in all kinds of demanding situations.

### Data Processing & Data Communication

A barcode scanner and wireless communication are default integrated for real-time data capture. The Bluetooth interface supports connectivity to other Bluetooth devices. The Cisco CCX compatible Wireless-LAN interface (IEEE 802.11b/g) provides connection to local area networks. Several security options empower business safety.

### Expansion to peripherals

Customization can be reached by expanding the memory through SD card or by adding extended functionality through the serial connector.

Cabled

**Wireless**

Stationary

OEM

**OPTICON**  
always scanning for new ID's

## Specifications

# PHL 8112 Ruggedized PDA

### Electrical specifications

Main battery pack: Standard Li-Ion battery pack, 3.7 V, 2200 mAh, Optional High Capacity Li-Ion battery pack 3.7 V, 4000 mAh  
Backup battery: 1 rechargeable backup Lithium Ion Polymer battery  
Charging method: Built-in battery charger by power adapter

### Communication specifications

Interface USB: Ver. 1.1 full speed, client, optional host  
Interface W-LAN: 802.11b/g, CCK, TKIP, WEP, WPA, WPA2, EAP, LEAP, PEAP, AES, PSK (pre-shared, static, dynamic), Cisco CCX compatible ver 4  
Interface Bluetooth: Ver. 1.2, class II compliant, range 5-10 m, SPP

### Identification

Supported barcode symbologies (1D): JAN/UPC/EAN (WPC) incl. add on, Chinese Post, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Korean Postal Authority code, Matrix 2of5, MSI/Plessey-UK/Plessey, RSS, S-Code, Telepen, Tri-Optic, Composite codes  
Supported 2D code symbologies: MicroPDF417, PDF417

### Optical specifications

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 to 0°, 0 to +35°  
Reading skew angle: -50 to -8°, +8 to +50°  
Reading tilt angle: -20 to 0°, 0 to +20°  
Curvature: R>15 mm (EAN8), R>20 mm (EAN13)  
Min. PCS value: 0.45  
Depth of field: at PCS 0.9, Code 39  
70 - 650 mm / 2.76 - 25.59 in (res. 1.00 mm / 39 mil),  
50 - 420 mm / 1.97 - 16.54 in (res. 0.5 mm / 20 mil),  
50 - 260 mm / 1.97 - 10.24 in (res. 0.25 mm / 10 mil),  
50 - 150 mm / 1.97 - 5.91 in (res. 0.15 mm / 6 mil),  
60 - 120 mm / 2.36 - 4.72 in (res. 0.127 mm / 5 mil)

### Functionality

Memory FlashROM: 128 MB  
Memory RAM: 128 MB SDRAM and optional SD-card memory  
Microprocessor: 520Mhz, Intel® PXA270 32-bits RISC CPU  
Display: 3.5" 240 X 320 QVGA Graphic Transflective TFT, 256K Color LCD with LED adjustable Backlight, 4-Wire Resistance Type Touch Panel  
Indicators: Dual-color (red/green)  
Keyboard: 16 keys numeric back-lit keypad and 3 scan keys, 2 navigation keys, 4 function keys, power/backlight button, 3 control keys  
Input devices: Passive Stylus or Finger Operation  
Programming: Windows® CE 5.0, IE 6.0, Inbox, Active Sync, Dialer application, WLAN utility for Security function, Update software from SD card

### Environmental specifications

Temperature in operation: -10 to 50 °C / 14 to 122 °F  
Temperature in storage: -20 to 60 °C / -4 to 140 °F  
Humidity in storage: 5 - 95 % (non-condensing)  
Shock drop test: 1.5 m / 5 ft drop onto concrete surface  
Protection against dust and moisture, according to IEC529: IP 54

### Physical specifications

Dimensions: 155 x 82 x 31/33 mm / 6.10 x 3.23 x 1.22/1.30 in  
Weight Body: Ca. 350 g / 12.3 oz (incl. standard battery)

### Regulatory

Laser safety class: JIS-C-6802 Class 2, IEC 60825-1 Class 2, FDA CDRH Class II  
Product compliance: CE incl. LVD, FCC, cUL, RoHS, TUV

### Enclosed items

USB client cable for terminal, AC Adapter 5V DC 2.6A, AC Power cord, Standard battery pack 3.7V DC 2200 mAh, Handstrap, Stylus, Ear microphone

### Accessories

Sold separately  
Single dock IRU 8000, RS232 serial cable for terminal, USB host cable for terminal, High-capacity Li-Ion Battery Pack 3.7V DC 4000mAh, Car charging adapter

### Regulatory

Product compliance: CE incl. LVD, FCC, cUL, RoHS, TUV