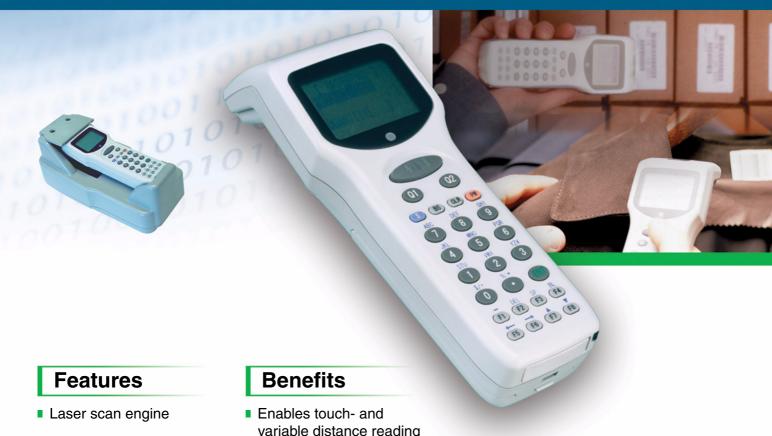


The PHL 1700 handheld terminal has an integrated bar code laser scanner. Features are: 16 bit MPU, 1 MB memory, graphic LCD display, alpha-numeric keypad, 8 function keys and IrDA interface.

Handheld terminal

# **PHL 1700**

Handheld terminal



- Small size and light weight
- Rechargeable battery pack or Alkaline batteries
- 1 MB Memory available
- IrDA interface

- variable distance reading
- Easy to carry
- Long life battery
- Enables continuous working
- Easy optical data transmission



## **Specifications**

### PHL 1700 Handheld terminal

**Electrical specifications** 

Main battery pack NI-MH rechargeable Main dry cell battery Alkaline penlite Main battery optional 2 x AA-size

Main battery pack operating time When making every 5 seonds 1 scan with 1 sec laserbeam on and 0.2 sec. green LED on and 0.2 sec. buzzer on, operating time is: approx.

Main dry cell battery operating time When making every 5 seconds 1 scan with 1 sec laserbeam on and 0.2 sec. green LED on and 0.2 sec. buzzer on, operating time is: approx. 67 hours

Lithium (CR2032)

Different operation conditions affect the operating time. Use of other penlite batteries affect the operating time. Main battery condition

Backup battery

Backup battery operating time If fully charged: 4 months backup time Low voltage indicated on the terminal display.

Battery management

When battery is low the terminal switches off automatically. Rechargeable Ni-MH pack in terminal via Charging method cradle / Optional Spare Ni-MH pack in cradle (IRU-1700-TC)

**Optical specifications** 

Light source 650 nm visible laser diode Scan rate 100 scans/sec Decode rate 100 decodes/sec

60 mm at 30 mm, 98 mm at 100 mm Reading width

Min. Resolution at PCS 0.9 0.15 mm (6mil)

Depth of field 0 - 140 mm (at PCS 0.9, resolution 0.25)

Identification

Supported barcode symbologies

Chinese Post 2of5 - Codabar incl. ABC and CX - Code 39 - Code 93 - Code 128 - EAN-8 incl. +2,+5 - EAN-13 incl. +2,+5 - IATA - Industrial 2of5 - Interleaved 2of5 - Italian Pharmaceutical - Matrix 2of5 - MSI/Plessey - UK/Plessey - S-Code - Telepen - TriOptic - UPC-A incl. +2,+5 - UPC-E incl. +2,+5

**Functionality** 

Display

Interface RS232

Memory ROM 32 kB

Memory FlashROM 256 kB (for O/S and program storage)

Memory fastRAM

1 MB battery backed up S-RAM (for data storage) Memory RAM

Microprocessor 16-bit

Real time clock Quartz RTC, time and date programmable, leap year handling, (accuracy +/- 60 sec./month)

96 x 48 Pixels graphic LCD with backlight

Character fonts 4/8 lines x 16 characters

Piezo buzzer / Good read LED (red/green) Indicators Keyboard 27 keys total (26 keys user definable)

Keyboard function keys 8 Function keys Keyboard mode Alpha/Numeric mode

Functionality is provided by user application. The application may be downloaded from PC via cable, com port or IrDA. Programming

supported by cradle or optional supported by direct cable

Interface IrDA supported on terminal

cradle: 2400 - 38400 bps, direct cable: 2400 - 115200 bps Transmission speed RS232

Transmission speed IrDA 2400 - 115200 bps

**Environmental specifications** 

-10 - +40 °C Temperature in operation -20 - +60 °C Temperature in storage Humidity in operation 20 - 80 % Humidity in storage 20 - 90 % Ambient fluorescent light rejection 3 000 lux max Ambient direct sun light rejection 50.000 lux max.

1.5 m drop onto concrete surface Shock drop test

Shock vibration test 10 - 50 Hz with 1G for 30 min, cycle for X,Y,Z

Protection (dust and moisture, IEC529) IP 42

Physical specifications

(I x w x d) 172 x 62 x 44 mm Dimensions

Case material

Weight body 180 g (excl. battery)

Regulatory

Laser safety class IEC 825, Class I laserproduct EMC EN 55022, EN 55024

## IRU 1700 SV Charging and communication cradle for PHL 1700

#### **Electrical specifications**

Voltage requirement 9 V DC

Battery charging time 4 hours charge (with 70% nominal capacity)

**Functionality** 

Parity Odd, Even, None Interface BS232 supported Interface RS485 supported

baud rate: 1200 - 115200 bps Transmission speed

half duplex RS232 / half duplex RS485 Transmission modes

#### **Environmental specifications**

Temperature in operation 0 - +40 °C Temperature in storage -20 - +70 °C

Humidity in operation 30 - 85 % (non condensing) Humidity in storage 30 - 90 % (non condensing)

Shock vibration test 10 - 50 Hz with 1G for 30 min, cycle for X,Y,Z

**Physical specifications** 

Dimensions (I x w x h): 228 x 116 x 97 mm

Case material ABS

Weight body (excl. cables) 475 g Connector RS232 D Sub 9P F Connector RS485 6 pins modular plug

Regulatory

**FMC** EN 55022, EN 55024

Copyright Opticon Sensors Europe B.V. All rights reserved. This information is subject to change without prior notice. Printed 1/16/04

