



PHL1700 handheld laser terminal

The PHL1700 terminal is a programmable handheld terminal with a compact body, well suited for a variety of indoor portable applications. The PHL1700 is equipped with a built-in laserscanner that can scan all popular bar code labels at varying distances. The PHL1700 terminal can be programmed in C-language. The plain keyboard and the large graphic display enable the user to use the terminal in a clear and easy way.

Operating power is supplied by the main battery. A rechargeable battery pack, that can be charged in the cradle, or non-rechargeable penlite batteries can be used.

For communication the PHL1700 is provided with an IrDa interface. Through this interface the terminal is able to communicate with the cradle, or apart from the cradle to all computer devices that use IrDa communication, such as portable computers, notebooks and organizers. The program in the PHL1700 is also compatible with these devices. If the user wants to communicate with a computer system without using IrDa or the cradle, a communication cable between the terminal and the computer system can be obtained.

Features

Benefits

■ Small size and light weight	■ Easy to carry
 Rechargeable Nickel Metalhydride battery pack 	■ Long life batteries
■ Up to 2MB memory available	■ Enables continuous working
Backup battery with long backup time	■ Possibility to use the terminal for a long time without charging and without loss of data
RS232 data transmission by cradle	■ Easy data storage into the computer system
Built-in IrDa interface	■ Ideal to use together with portable computers, like note books.



IRU1600 cradle for terminal and rechargeable battery pack



PHL1700 handheld laser terminal

Electrical specifications

Main battery Alkaline battery or Ni-MH rechargeable battery

Main battery operating time ☐ Alkaline battery: about 120 hours

□ Ni-MH battery: about 60 hours

(every ten seconds two times bar code reading

with buzzer, good read led and LCD on)

Backup battery Lithium (CR2032)

Backup battery operating time 4 months backup time

Indicator with low battery, Battery management

warning and compulsory off

Charging method □ Battery in terminal via cradle □ Replacement battery in cradle

Optical specifications

650 nm visible laser diode Light source

Scan rate 100 scans/sec Decode rate 100 decodes/sec

20.000 mm/sec at 100 mm Spot velocity

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

Resolution at PCS 0,9 0.127 mm (5mil)

Depth of field 0 - 160 mm (at PCS 0.9, density 0.25)

Supported symbologies

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 Laetus Matrix 2of5

Italian Pharmaceutical

MSI/ Plessey UK/ Plessey S-Code Telepen

UPC-A incl. +2,+5 UPC-E incl. +2,+5

Functionality

☐ 32 KBvte ROM Memory ☐ 256 Kbyte FlashROM

☐ 2 Kbyte fast RAM □ battery backed up RAM 1 or 2 Mbvte S-RAM

Microprocessor

Quartz RTC, time and date Real time clock

programmable with leap year handling

and separate battery

Display □ 96x48 dots graphic LCD with backlight

□ characterfonts:

min. 6 x 6 pixels, max. 16 x 16 pixels

Keyboard □ 8 function keys

□ alpha mode

Trigger mode manual

Configuration main parameters can be set by setup program

Programming user applications written in C may be

downloaded via cable or com port.

Interfaces supported □ RS232 □ IrDa

□ RS232 Baudrate: 2400 - 38400 Transmission speed

□ IrDa Baudrate: 2400 - 38400

Environmental specifications

Temperature 0 - 40 °C in operation

-10 - 60 °C in storage

□ 20 - 80 % in operation Humidity (non condensing)

□ 20 - 90 % in storage

Shock

1.5 m drop onto concrete surface drop: vibration: 12 - 100 Hz with 2G for 3 hours Ambient light rejection ☐ fluorescent 3.000 lux max. direct sun 50.000 lux max.

Emission According to EN50081, part 1 **Immunity** According to EN50082, part 1

Protection against

dust and moisture According to IEC529, IP 42

According to IEC825, Class I laserproduct Safety, Laser class

Physical specifications

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

Case material ABS Weight body: 180 g Standard cable (optional) RS232: DB9 female

IRU-1600 cradle

Electrical specifications

Battery charging time complete recharge to full capacity:

4 hours in terminal

□ 1 hour in spare battery slot

Functionality

Interfaces supported

□ RS232 □ RS485 optical

Serial communication

□ RS232 Baudrate: 1200 - 38400 □ RS485 Baudrate: 1200 - 38400

☐ Full duplex RS232

Transmission modes ☐ Half duplex RS485

Parity Odd, Even, None

Environmental specifications

Humidity (non condensing)

Temperature 0 - 40 °C in operation

□ -20 - 70 °C in storage

□ 30 - 80 % in operation □ 30 - 90 % in storage

Shock: vibration: 12 - 100 Hz with 2G for 3 hours

Emission According to EN50081, part 1 **Immunity** According to EN50082, part 1

Physical specifications

Dimensions (I x w x d) 228 x 116 x 97 mm (desk top type)

228 x 116 x 102 mm (optional: wall mount type)

Case material ABS Weight 600 g

Standard connector RS232 - D Sub 9P Female RS485 - 6 pins modular plug

Specifications are subject to change without notice. Printed 07-1999

