



PHL1300 pocket handheld terminal

The PHL-1300 is a new member of Opticon PHL series laser hand-held terminals.

It is the smallest (132x55x33mm by dimensions and 170g* by weight) among the family products, but with full features of 16 bit MPU, 8MB memory, and graphic LCD display.

The IRU-1300 is a communication and re-charging cradle for PHL-1300. It interfaces to a host PC with RS-232C or RS-485.

Features	Benefits
■ Pocket size and light weight	■ Easy to carry
■ 8 MB Memory available	■ Enables continuous working
Rechargeable Lithium-Ion battery pack	■ Long life battery
Serial data transmission by cradle	■ Easy data storage into the computer system
■ Keypad with cellphone look and fee	el∎ Less instructions required



IRU1300

communication and charging cradle for terminal



SPECIFICATIONS PHL 1300 pocket handheld terminal

Electrical specifications

Main battery □ Lithium-Ion rechargeable (Opticon item)

☐ Alkaline AA-size batteries (optional user item)

Main battery operating time

☐ Li-Ion: 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. 36 hours

☐ Alkaline: 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. 78 hours

□ Different operation conditions affect the

operating time

Backup battery Lithium CR2032
Backup battery 3 weeks backup time operating time

☐ When battery is low the terminal switches

off automatically.

Charging method Recharging Lithium-Ion pack in terminal

via cradle

Optical specifications

Light source 650 nm visible laser diode

Scan rate 100 scans/sec

Decode rate 100 decodes/sec

Reading width min. 40 mm.

Resolution at PCS 0,9 0.15 mm (6mil)

Min. PCS Values 0.45

Depth of field 70 - 380 mm (at PCS 0.9, res. 1.0 mm)

Supported 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

Laetus Matrix 2of5

MSI/Plessey - UK/Plessey

S-Code Telepen

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

Functionality

Keyboard

Memory □ ROM: 32 kB

☐ FlashROM:(O/S and program)
2 x 256 kB (total 512 kB)
☐ fast RAM: 2 kB
☐ RAM (data storage):

8 MB battery backed up D-RAM

Microprocessor 16-bit

leap year handling, (accuracy \pm 60 sec./month)

Display □ 96x64 Pixels graphic LCD with backlight □ Character fonts: 5/10 lines x 16 characters

□ 19 keys total (18 keys user definable)

□ Alpha/Numeric mode

Programming Functionality is provided by user application.

The application may be downloaded from PC

via cradle.

Interfaces supported □ RS232 supported by cradle

□ IrDAsupported on terminal□ RS485 supported by cradle

Transmission speed Baudrate: 2400 - 15200 bps

Environmental specifications

Temperature □ -10 - +40 °C in operation

□ -20 - +60 °C in storage

Shock: drop: 1.5 m drop onto concrete surface

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

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

Physical specifications

Dimensions (I x w x d) 132 x 55 x 33 mm

Case material ABS

Weight body (incl. battery): ca. 170 g

(depending on battery type)

SPECIFICATIONS IRU 1300 charging and communication station

Electrical specifications

Power supply 9V DC

Battery charging time when battery in terminal: 8 hours charge

Functionality

Interfaces supported □ RS232

□ RS485

Serial communication 🗖 RS232 Baudrate: 1200 - 115200

□ RS485 Baudrate: 1200 - 115200

Transmission modes ☐ Half duplex RS232

□ Half duplex RS485

Parity Odd, Even, None

Environmental specifications

Temperature □ 0 - 40 °C in operation

□ -20 - 70 °C in storage

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

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

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

Physical specifications

Dimensions (I x w x h) 134 x 78 x 75 mm

Case material ABS

Standard connector RS232 - D Sub 9P Female

RS485 - 6 pins modular plug

Preliminary specifications are subject to change without notice. Printed 07-2002

