



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

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|---|--|
| ■ 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 feel | ■ Less instructions required |

Benefits



IRU1300

communication and charging
cradle for terminal

SPECIFICATIONS PHL 1300 pocket handheld terminal

Electrical specifications

Main battery	<input type="checkbox"/> Lithium-Ion rechargeable (Opticon item) <input type="checkbox"/> Alkaline AA-size batteries (optional user item)
Main battery operating time	<input type="checkbox"/> Li-Ion: 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. 36 hours <input type="checkbox"/> Alkaline: 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. 78 hours <input type="checkbox"/> Different operation conditions affect the operating time
Backup battery	Lithium CR2032
Backup battery operating time	If fully charged: 3 weeks backup time
Battery management	<input type="checkbox"/> Low voltage indicated on the terminal display. <input type="checkbox"/> 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

Memory	<input type="checkbox"/> ROM: 32 kB <input type="checkbox"/> FlashROM:(O/S and program) 2 x 256 kB (total 512 kB) <input type="checkbox"/> fast RAM: 2 kB <input type="checkbox"/> RAM (data storage): 8 MB battery backed up D-RAM
Microprocessor	16-bit
Real time clock	Quartz RTC, time and date programmable, leap year handling, (accuracy \pm 60 sec./month)
Display	<input type="checkbox"/> 96x64 Pixels graphic LCD with backlight <input type="checkbox"/> Character fonts: 5/10 lines x 16 characters
Keyboard	<input type="checkbox"/> 19 keys total (18 keys user definable) <input type="checkbox"/> Alpha/Numeric mode
Programming	Functionality is provided by user application. The application may be downloaded from PC via cradle.
Interfaces supported	<input type="checkbox"/> RS232 supported by cradle <input type="checkbox"/> IrDAsupported on terminal <input type="checkbox"/> RS485 supported by cradle
Transmission speed	Baudrate: 2400 - 15200 bps

Environmental specifications

Temperature	<input type="checkbox"/> -10 - +40 °C in operation <input type="checkbox"/> -20 - +60 °C in storage
Humidity (non condensing)	<input type="checkbox"/> 20 - 80 % in operation <input type="checkbox"/> 20 - 90 % 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	<input type="checkbox"/> fluorescent 3.000 lux max. <input type="checkbox"/> direct sun 50.000 lux max.
Emission	According to EN50081, part 1
Immunity	According to EN50082, part 1
Safety, Laser class	According to IEC825, Class I laserproduct

Physical specifications

Dimensions (l 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	<input type="checkbox"/> RS232 <input type="checkbox"/> RS485
Serial communication	<input type="checkbox"/> RS232 Baudrate: 1200 - 115200 <input type="checkbox"/> RS485 Baudrate: 1200 - 115200
Transmission modes	<input type="checkbox"/> Half duplex RS232 <input type="checkbox"/> Half duplex RS485
Parity	Odd, Even, None

Environmental specifications

Temperature	<input type="checkbox"/> 0 - 40 °C in operation <input type="checkbox"/> -20 - 70 °C in storage
Humidity (non condensing)	<input type="checkbox"/> 30 - 85 % in operation <input type="checkbox"/> 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 (l 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 04-2002