

OPH-1005

OPTICON Quick Start Guide

Introduction

- Read this quick start guide carefully before installing and/or using this product.
- Keep this quick start guide for future reference and store in a safe place.

Notice

- This quick start guide may be revised or withdrawn at any time without prior notice.
- This quick start guide may not, in whole or in part, be copied, photocopied, reproduced, translated or converted to any electronic or machine readable form without prior written consent of Opticon.
- Trademarks used are property of their respective owners.
- Under no circumstances shall Opticon be held responsible for any special, incidental, consequential or indirect damages howsoever caused.

⚠ Caution and Warning (Please refer to the specification manual and instruction guide for details.)

1. Laser Safety

- Do not stare into the laser beam.

2. Handling Instructions [OPH-1005]

- Do not attempt to disassemble, modify or update this device.
- Operating the scanner while operating machinery or a vehicle can be distracting.
- Do not drop this product or put heavy items on this product.
- Do not insert foreign substances into the device.
- Do not use this product in the following areas:
 - In areas exposed to direct sunlight for long periods of time.
 - In dusty environments.
 - Near water or other liquids, or in extremely high humidity.
 - Near heat sources, such as radiators, heat registers, stoves, or other types of devices that produce heat.
 - Near microwaves or medical devices.
- When cleaning this product, rub gently with either a soft dry cloth or a damp cloth with mild detergent.

[Battery Pack]

- Do not attempt to disassemble this battery.
- Do not expose the battery pack to liquids or allow the battery contacts to get wet.
- Do not expose the battery pack to heat sources including other devices that produce heat.
- Do not short the power leads on the battery pack. If the (+) and (-) terminals come in contact with metals (such as a necklace or hairpin), a short-circuit will occur.
- Do not load the battery pack with its (+) and (-) terminals reversed.
- Check the local regulations for proper battery disposal.

Before Getting Started

■ What's in the Box

Confirm that you have the following items before getting started:

No.	Item	Function
1	Portable Terminal	A laser portable terminal with a barcode scanning feature.
2	Strap	
3	Quick Start Guide	Provides product information and instruction guide.

* The number of accessories may differ depending on the product specification.
Please contact the nearest dealer if accessories are damaged or missing.

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Overview

■ Key Layout



Key	Function
SCAN	Scans a barcode.
Q1	Navigate through the menu or toggle between options. (These keys can be programmed suitable for user's application.)
Q2	
SHIFT	Shifts from "number input mode" to "alphabet input mode" and vice versa.
BS	Deletes one letter before the cursor.
CLR	Cancels an input.
POWER	Turns the power ON and OFF.
0-9, .	10 numeric keys to input numbers, alphabets or symbols.
ENT	Determines the input.
F1-F4	4 function keys which can be programmed by a user.

* The layout of keys may differ depending on the product specification.

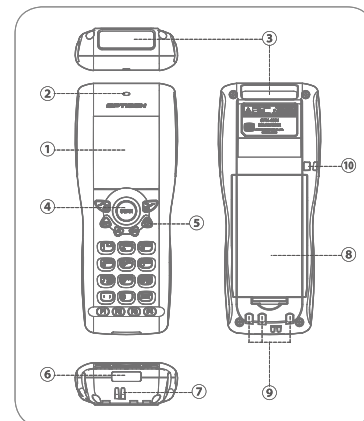
Designated Cradles (Optional)*

Overview

■ OPH-1005 Basic Specifications

Parameter	Specifications
Physical Features	Size (H) 136.1 x (W) 55.4 x (D) 22.8 mm
	Weight Approx. 140g (including Li-ion battery)
Control Section	CPU 32bit MCU
	OS Proprietary
Memory	FROM 4MB
	RAM 4MB
Display Section	Material LCD (262144 color)
	Number of dots 320 dots x 240 dots
	Dot size 0.24mm x 0.24mm
	Dot pitch 0.18mm
	Backlight White LEDs
	Contrast Control Enabled
Other Display Section	LED Bi-color LED (Red and Green)
	Buzzer Tone and loudness can be configured
Operation Section	Keys 23 keys
Scanning Section	Light Source Red laser diode
	Wavelength 650 ± 10nm
	Light Output 1mW or less
	Scan Rate 100 ± 20scan/sec
	Supported Symbolologies
	JAN, EAN, UPC-A, UPC-E, NW-7(Codabar), Industrial 2 of 5, Interleaved 2 of 5, Code 11, Code 39, Code 93, Code 128, MSI/Plessey, UK/Plessey, IATA, Telepen, Matrix 2 of 5, S-Code, Tri-Optic, Chinese Post, EAN 128, RSS-14, RSS Limited, RSS Expanded, PDF417, MicroPDF417
Power Supply Section	Main Battery Lithium-ion battery (3.7V 1100mAh)
	Backup Battery Manganese dioxide lithium-ion battery (11mAh)
	Operating Time Approx. 40 hours (1 scan/10 sec)
	Data Retention Time 24 hours
Comm. Section	IrDA IrDA Ver. 1.2 Baud rate: (SIR): 9600 to 115.2kbps
Clock Section	Real Time Clock (RTC) Supports year, month, day, hour, minute, second (leap year supported)
Durability	Operating Temp. -10 deg. C to 50 deg. C
	Operating Humidity 20% to 85% (non-condensing)
	Storage Temp. -20 deg. C to 60 deg. C
	Storage Humidity 20% to 85% (non-condensing)
	Charging Temp. 0 deg. C to 40 deg. C
	Ambient Light Immunity Fluorescent: up to 4,000lx Sunlight: up to 80,000lx
	Dust-and Drip-proof IP 54
	Shock Endurance Dropped 3 times from each of 6 angles onto concrete from a height of 150cm with no defects found. (Total 18 times)

■ Detailed View



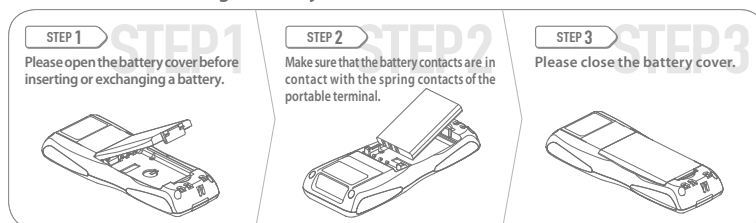
No.	Part	Function
①	LCD	Indicates the status of program execution, scanned data and so on.
②	Status LED (Red and Green)	Alerts users the status of scanning operation and data communication.
③	Optical Window	The scan engine emits a laser beam through the optical window while scanning a barcode.
④	SCAN Key	Starts a barcode scanning operation.
⑤	POWER Key	Turns ON or OFF the power.
⑥	IrDA Communication Window	This portable terminal communicates with the designated cradle through the IrDA communication window.
⑦	Buzzer Hole	Buzzer sounds through the buzzer hole.
⑧	Battery Cover	Protects the battery pack.
⑨	Charging Terminals	Electrical terminals for power distribution and power management.
⑩	Strap Hook	



- * To avoid communication problems between the portable terminal and a cradle, keep the IrDA communication window clean.
- * The IrDA communication performance may decline due to excessive ambient light especially under strong sunlight or inverted fluorescent light.

Using the Portable Terminal

■ How to Insert or Exchange a Battery



* When the cover is not closed correctly the portable terminal will not be turned ON.

■ How to Scan a Barcode

Please refer to the following examples of a scanning operation.
Make sure that the barcode is within the width of the laser aiming pattern.



- When cleaning this product, rub gently with either a soft dry cloth or a damp cloth with mild detergent.
- [Battery Pack]
 - Do not attempt to disassemble this battery.
 - Do not expose the battery pack to liquids or allow the battery contacts to get wet.
 - Do not expose the battery pack to heat sources including other devices that produce heat.
 - Do not short the power leads on the battery pack. If the (+) and (-) terminals come in contact with metals (such as a necklace or hairpin), a short-circuit will occur.
 - Do not load the battery pack with its (+) and (-) terminals reversed.
 - Check the local regulations for proper battery disposal.

Before Getting Started

What's in the Box

Confirm that you have the following items before getting started:

No.	Item	Function
1	Portable Terminal	A laser portable terminal with a barcode scanning feature.
2	Lithium-ion Battery Pack	Designated battery pack for the OPH-1004.
3	Strap	
4	Quick Start Guide	Provides product information and instruction guide.

* The number of accessories may differ depending on the product specification.
Please contact the nearest dealer if accessories are damaged or missing.

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Power Supply Section	Main Battery	RSS-14, RSS Limited, RSS Expanded, PDF417, MicroPDF417
	Backup Battery	Manganese dioxide lithium-ion battery (18mAh)
	Operating Time	Approx. 80 hours (2 scans/10 sec)
	Data Retention Time	More than 7 days
Comm. Section	IrDA	IrDA Ver. 1.2 Baud rate: (SIR): 9600 to 115.2kbps
Clock Section	Real Time Clock (RTC)	Supports year, month, day, hour, minute, second (leap year supported)
Durability	Operating Temp.	-10 deg. C to 50 deg. C
	Operating Humidity	20% to 85% (non-condensing)
	Storage Temp.	-20 deg. C to 60 deg. C
	Storage Humidity	20% to 90% (non-condensing)
	Charging Temp.	0 deg. C to 40 deg. C
	Ambient Light Immunity	Fluorescent: up to 4,000lx Sunlight: up to 80,000lx
	Dust- and Drip-proof	IP54
Shock Endurance		Dropped 3 times from each of 6 angles onto concrete from a height of 150cm with no defects found. (Total 18 times)

④	SCAN Key	Starts a barcode scanning operation.
⑤	POWER Key	Turns ON or OFF the power.
⑥	IrDA Communication Window	This portable terminal communicates with the designated cradle through the IrDA communication window.
⑦	Buzzer Hole	Buzzer sounds through the buzzer hole.
⑧	Battery Cover	Protects the battery pack.
⑨	Charging Terminals	Electrical terminals for power distribution and power management.
⑩	Strap Hook	



• To avoid communication problems between the portable terminal and a cradle, keep the IrDA communication window clean.

• The IrDA communication performance may decline due to excessive ambient light especially under strong sunlight or inverted fluorescent light.

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* The layout of keys may differ depending on the product specification.

Designated Cradles (Optional)*

We offer a series of communication and charging cradles with different communication methods. Please select the most suitable cradle for the desired operation.

Communication & Charging Cradle CRD-1001	Communication Method (Cradle to Host)	Communicates with the host via RS-232C or USB interface.
	Size	(H)70.0 × (W)68.0 × (D)96.0 mm Max
	Weight	110g Max (excluding AC adapter and cable)
	Charging Time	2 hours and 10 minutes

RS-232C USB

Communication & Charging Cradle CRD-1002	Communication Method (Cradle to Host)	Communicates via telephone line and connects to the Public Switched Telephone Network (PSTN)
	Size	(H)70.0 × (W)68.0 × (D)96.0 mm Max
	Weight	100g Max (excluding AC adapter and cable)
	Charging Time	2 hours and 10 minutes

MODEM

Communication & Charging Cradle CRD-1003	Communication Method (Cradle to Host)	Communicates with the host via GSM (Global System for Mobile Communications) Network.
	Size	(H)70.0 × (W)68.0 × (D)96.0 mm Max
	Weight	115g Max (excluding AC adapter and cable)
	Charging Time	3 hours

GSM

Communication & Charging Cradle CRD-1004	Communication Method (Cradle to Host)	Communicates with the host via Ethernet or USB.
	Size	(H)70.0 × (W)68.0 × (D)96.0 mm Max
	Weight	115g Max (excluding AC adapter and cable)
	Charging Time	3 hours

ETHERNET USB

* Please refer to the specification manual or the instruction guide for details of designated cradles.

* A designated SIM card will be needed to use the CRD-1003 GSM cradle.

Using the Portable Terminal

How to Insert or Exchange a Battery

STEP 1
Please open the battery cover before inserting or exchanging a battery.

STEP 2
Make sure that the battery contacts are in contact with the spring contacts of the portable terminal.

STEP 3
Please close the battery cover.

* When the cover is not closed correctly the portable terminal will not be turned ON.

How to Scan a Barcode

Please refer to the following examples of a scanning operation.
Make sure that the barcode is within the width of the laser aiming pattern.



Trouble Shooting

The portable terminal does not get powered ON.

- A. The battery level of the portable terminal may be extremely low or empty. Please try again after you charge the portable terminal.
- B. Check if the battery cover is closed tight.

The portable terminal does not read a specific type of barcode.

- A. That specific type of barcode may not be supported by the portable terminal. Please confirm the specification manual of the portable terminal for details of supported symbologies.
- B. The specific type of barcode may not be enabled in the application. Change the settings in your application.

The portable terminal does not read a barcode smoothly.

- A. The scanning performance of the portable terminal may decline due to inappropriate scan angle. Please adjust the angle of the portable terminal and try again. Make sure that the barcode is within the width of the laser aiming pattern.

Contact

Please contact OPTICON or your local dealer.

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More product details, additional support, and configuration options (from the Universal Menu Book) are available at www.opticon.com.

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