

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

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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-1003]

- 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, medical devices, or low-power radio stations.
- 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-1003.
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.

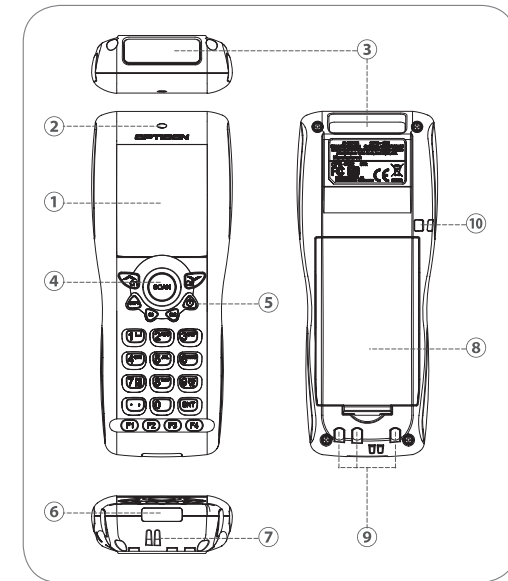
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Overview

■ OPH-1003 Basic Specifications

Parameter	Specifications
Physical Features	Size (W) 55 × (D) 23 × (H) 136 mm Max
	Weight 140g Max (excluding battery)
	Color Black
Control Section	MAIN CPU 32bit RISC CPU Built-in ROM : N/A Built-in RAM : 64KB Clock frequency : 24MHz, 12MHz, STOP
	External Memory
External Memory	FLASH ROM 2MB
	SRAM 2MB
	Extended FLASH ROM 64MB
LCD Section	Material FSTN semi-transparent LCD
	Backlight White LEDs
	Active Area 33.58mm × 8.38mm
	Number of Dots 112 dots × 128 dots Dot pitch : 0.30mm
Other Display Section	LED Bi-color LED (Red and Green)
	Buzzer Tone and loudness can be configured.
Operation Section	Keys 22 keys
Scanning Section	Light Source Red laser diode
	Wavelength 650 ± 10nm
	Light Output 1mW or less
	Scan Rate 100scan / sec
	Supported Symbologies JAN/UPC/EAN (WPC) incl. add on, Chinese Post, Codabar/NW-7, Code 11, Code 39, Code 93, Code 128, IATA, Industrial 2of5, Interleaved 2of5, ISBN-ISMN-ISSN, Korean Postal Authority code, Matrix 2of5, MSI/Plessey-UK/Plessey, RSS, S-Code, Telepen, Tri-Optic, Composite codes
Power Supply Section	Main Power Supply Lithium-ion battery (3.7V, 1100mAh)
	Backup Power Supply Lithium secondary battery
	Operating Time 50 hours
	Data Retention Time 7 days
Comm. Section	IrDA IrDA Ver1.2 Baud rate : 2400bps to 115.2kbps
Clock Section	Real Time Clock (RTC) Support 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 Incandescent Light : 4,000 lx Fluorescent Light : 4,000 lx Sunlight : 80,000 lx
	Dust-and Drip-proof IP54
	Shock Endurance Dropped 18 times onto concrete from a height of 150cm with no defects found.

■ 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.

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)*

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

RS-232C USB

Communication Method (Cradle to Host)	Communicates with the host via RS-232C or USB interface.
Size	(H)70 × (W)68 × (D)96 mm Max
Weight	110g Max (excluding AC adapter and cable)
Charging Time	2 hours and 10 minutes

Communication & Charging Cradle CRD-1002

MODEM

Communication Method (Cradle to Host)	Communicates via telephone line and connects to the Public Switched Telephone Network (PSTN)
Size	(H)70 × (W)68 × (D)96 mm Max
Weight	100g Max (excluding AC adapter and cable)
Charging Time	2 hours and 10 minutes

Communication & Charging Cradle CRD-1003

GSM

Communication Method (Cradle to Host)	Communicates with the host via GSM (Global System for Mobile Communications) Network.
Size	(H)70 × (W)68 × (D)96 mm Max
Weight	115g Max (excluding AC adapter and cable)
Charging Time	3 hours

* 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.

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

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

- 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.
- 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.

- 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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