



# OPTICON OPH-1005 Handheld Data Portable Terminal User Guide

[Home](#) » [OPTICON](#) » OPTICON OPH-1005 Handheld Data Portable Terminal User Guide 

## OPTICON OPH-1005 Handheld Data Portable Terminal



## Contents

- 1 Introduction
- 2 Before Getting Started
- 3 Overview
  - 3.1 OPH-1005 Basic Specifications
  - 3.2 Detailed View
  - 3.3 Key Layout
- 4 Designated Cradles (Optional)\*
- 5 Using the Portable Terminal
  - 5.1 How to Insert or Exchange a Battery
  - 5.2 How to Scan a Barcode
- 6 Trouble Shooting
- 7 Contact
- 8 Documents / Resources
  - 8.1 References
- 9 Related Posts

## 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- This quick start guide may be revised or withdrawn at any time without prior notice.
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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-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.

## Overview

### OPH-1005 Basic Specifications

Parameter		Specifications
Physical	Size	(H) 136.1 x (W) 55.4 x (D) 22.8 mm

<b>Features</b>	<b>Weight</b>	Approx. 140g (including Li-ion battery)
<b>Control Section</b>	<b>CPU</b>	32bit MCU
	<b>OS</b>	Proprietary
<b>Memory</b>	<b>FROM</b>	4MB
	<b>RAM</b>	4MB
<b>Display Section</b>	<b>Material</b>	LCD (262144 color)
	<b>Number of dots</b>	320 dots x 240 dots
	<b>Dot size</b>	0.24mm x 0.24mm

	<b>Dot pitch</b>	0.18mm
	<b>Backlight</b>	White LEDs
	<b>Contrast Control</b>	Enabled
<b>Other Display Section</b>	<b>LED</b>	Bi-color LED (Red and Green)
	<b>Buzzer</b>	Tone and loudness can be configured
<b>Operation Section</b>	<b>Keys</b>	23 keys
	<b>Light Source</b>	Red laser diode
	<b>Wavelength</b>	650 ± 10nm

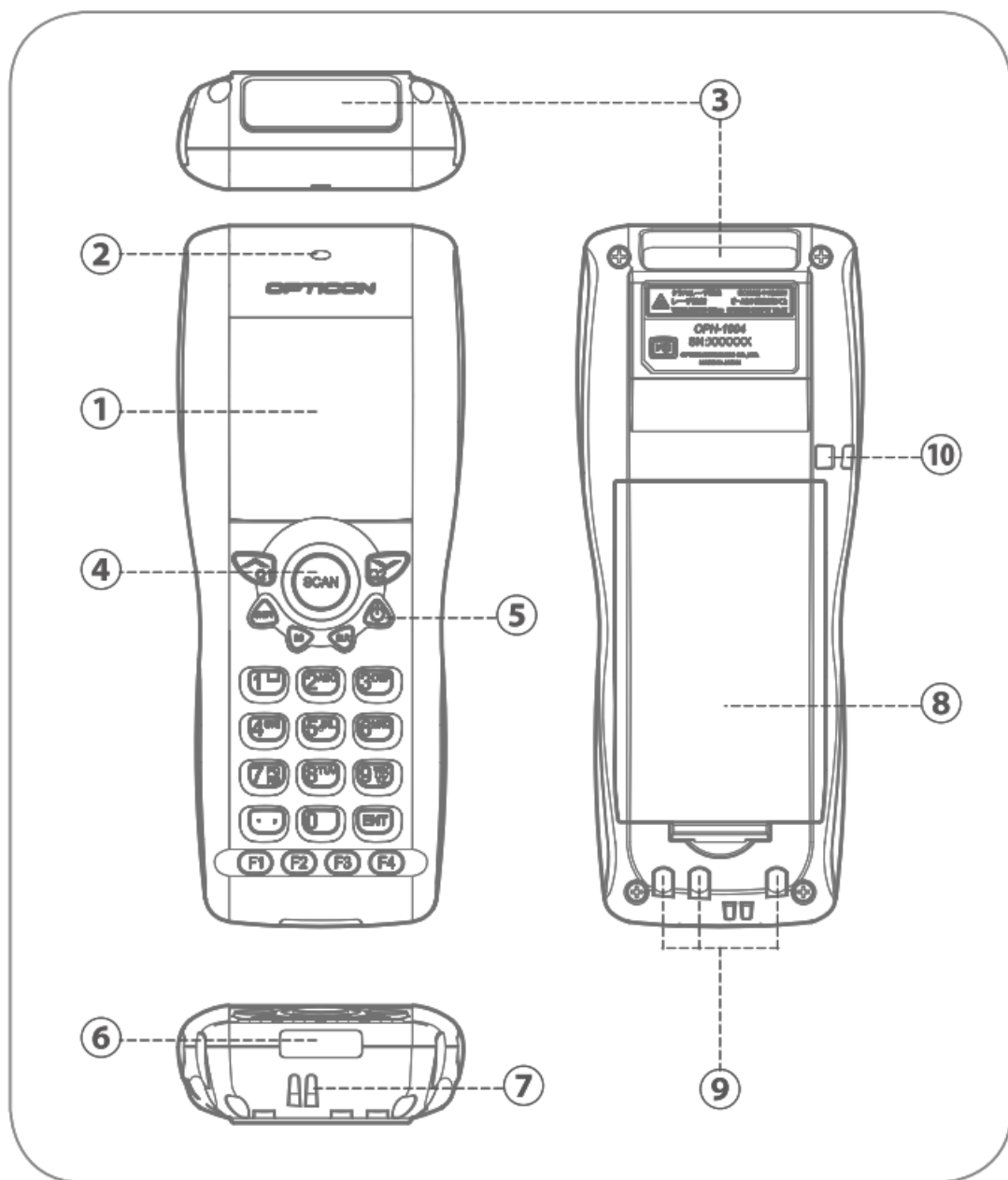
Scanning Section	Light Output	1mW or less
	Scan Rate	100 ± 20scan /sec
	Supported Symbologies	JAN, EAN, UPC-A, UPC-E, NW-7(Codabar), Industrial 2 of 5, Interleaved 2 of 5, Code 11, Code 39, Code 93, Code 128, MSI/Plessey, UK/Plessey, IATA, Telepen, Matrix 2 of 5, S-Code, Tri-Optic, Chinese Post, EAN 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

<b>Comm. Section</b>	<b>IrDA</b>	IrDA Ver. 1.2 Baud rate: (SiR): 9600 to 115.2kbps
<b>Clock Section</b>	<b>Real Time Clock (RTC)</b>	Supports year, month, day, hour, minute, second (leap year supported)
<b>Durability</b>	<b>Operating Temp.</b>	-10 deg. C to 50 deg. C
	<b>Operating Humidity</b>	20% to 85% (non-condensing)
	<b>Storage Temp.</b>	-20 deg. C to 60 deg. C
	<b>Storage Humidity</b>	20% to 85% (non-condensing)
	<b>Charging Temp.</b>	0 deg. C to 40 deg. C

	<b>Ambient Light Immunity</b>	Fluorescent: up to 4,000lx Sunlight: up to 80,000lx
	<b>Dust- and Drip-proof</b>	IP 54
	<b>Shock Endurance</b>	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	<b>LCD</b>	Indicates the status of program execution, scanned data and so on.
②	<b>Status LED (Red and Green)</b>	Alerts users the status of scanning operation and data communication.

③	<b>Optical Window</b>	The scan engine emits a laser beam through the optical window while scanning a barcode.
④	<b>SCAN Key</b>	Starts a barcode scanning operation.
⑤	<b>POWER Key</b>	Turns ON or OFF the power.
⑥	<b>IrDA Communication Window</b>	This portable terminal communicates with the designated cradle through the IrDA communication window.
⑦	<b>Buzzer Hole</b>	Buzzer sounds through the buzzer hole.
⑧	<b>Battery Cover</b>	Protects the battery pack.
⑨	<b>Charging Terminals</b>	Electrical terminals for power distribution and power management.
⑩	<b>Strap Hook</b>	

#### Key Layout



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

### 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

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

## Communication & Charging Cradle CRD-1002 MODEM

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

## Communication & Charging Cradle CRD-1003 GSM

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

**Communication & Charging Cradle**  
**CRD-1004**  
**ETHERNET / USB**

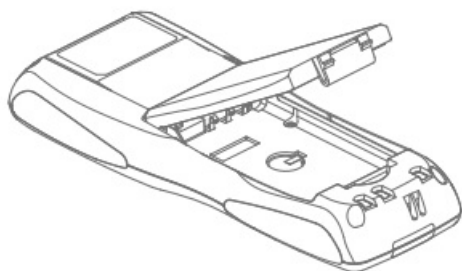
<b>Communication Method</b> (Cradle to Host)	<b>Communicates with the host via Ethernet or USB.</b>
<b>Size</b>	(H)70.0 × (W)68.0 × (D)96.0 mm Max
<b>Weight</b>	115g Max (excluding AC adapter and cable)
<b>Charging Time</b>	3 hours

## **Using the Portable Terminal**

### **How to Insert or Exchange a Battery**

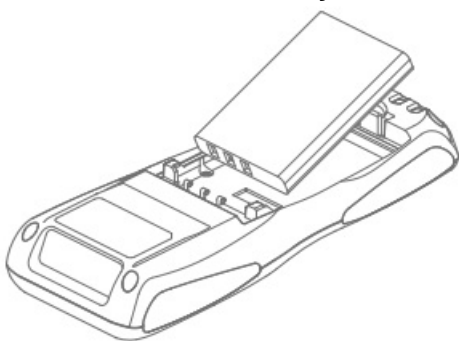
#### **STEP 1**

**Please open the battery cover before inserting or exchanging a battery.**



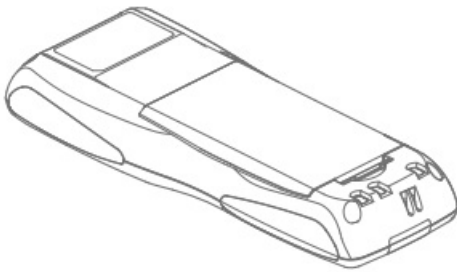
#### **STEP 2**

**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.






More product details, additional support, and configuration options (from the Universal Menu Book) are available at [www.opticon.com](http://www.opticon.com). QSG-OPH1005-00



## Documents / Resources

	<p><a href="#">OPTICON OPH-1005 Handheld Data Portable Terminal</a> [pdf] User Guide OPH-1005, Handheld Data Portable Terminal, Data Portable Terminal, Handheld Portable Terminal, Portable Terminal, Terminal</p>
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## References

-  [VisionXE](#)
-  [Ltd.tel](#)
-  [missing.No](#)
-  [Parked](#)
-  [Opticon - We scan, connect and communicate | Scan and display solutions](#)