Communication Method

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

- **RS-232C**
  - Communicates with the host via RS-232C or USB interface.
  - Size: 100 x 60 x 30 mm
  - Weight: 150g (including AC adapter and cable)

- **IrDA**
  - Communicates via Bluetooth and infrared communication.
  - Size: 100 x 60 x 30 mm
  - Weight: 150g (including AC adapter and cable)

- **GSM**
  - Communicates with the host via GSM (Global System for Mobile Communications) Interface.
  - Size: 100 x 60 x 30 mm
  - Weight: 115g (including AC adapter and cable)

**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: 100 x 60 x 30 mm
  - Weight: 150g (including AC adapter and cable)
  - Charging Time: 2 hours and 10 minutes

**Communication & Charging Cradle CRD-1002**
- **Communication Method (Cradle to Host)**
  - Communicates via telephone lines and the public switched telephone network (PSTN).
  - Size: 100 x 60 x 30 mm
  - Weight: 150g (including AC adapter and cable)
  - Charging Time: 2 hours and 10 minutes

**Communication & Charging Cradle CRD-1003**
- **Communication Method (Cradle to Host)**
  - Communicates with the host via GSM (Global System for Mobile Communications) Network.
  - Size: 100 x 60 x 30 mm
  - Weight: 115g (including 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**

1. Please open the battery cover before inserting or exchanging a battery.
2. Make sure the battery contacts are in contact with the spring contacts of the terminal.
3. Close the battery cover.

**How to Scan a Barcode**

1. Ensure the barcode is within the width of the laser aiming pattern.
2. Position the cover to align the aiming pattern with the barcode.
3. Ensure the battery cover is closed tightly.

**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 scanning performance of the portable terminal may decline due to inappropriate scan angle. Please adjust the aiming pattern.
  - The battery level of the portable terminal may be extremely low or empty. Please try again after you charge the portable terminal.

- **The portable terminal does not read a specific type of barcode.**
  - Please insert or exchange a battery.
  - 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.
**Introducing**

- 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.

**Caution and Warning**

- 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 however caused.

**Before Getting Started**

Confirm that you have the following items before getting started:

- **Key Layout**
  - F1-F4: 4 function keys which can be programmed by a user.
  - 10 numeric keys to input numbers, alphabets or number input mode
to `°` application.
  - BS: Deletes one letter before the cursor.
  - CLR: Cancels an input.
  - POWER Key: Turns the power ON and OFF.
  - D-...: 10 numeric keys to input numbers, alphabets or symbols.
  - ENTR: Determines the input.
  - F1-F4: 4 function keys which can be programmed by a user.

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

**Overview**

- **Communications Method**
  - USB

**Parameter Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Features</td>
<td>Size: 210 x 146.0 x 45.6 mm, Weight: Approx. 140 g (including 1/3 size battery)</td>
</tr>
<tr>
<td>Control Section</td>
<td>CPU: 32 bit RISC CPU, Memory: 4 MB, Flash Memory: 8 MB</td>
</tr>
<tr>
<td>Display</td>
<td>Type: FSTN transmissive LCD, Number of dots: 128 x 128 dots, Size: 0.49 mm x 0.49 mm, Pitch: 0.2 mm, Backlight: White LEDs, Contrast: 256 levels</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Main Battery: Lithium-ion battery (7.7 V, 1000 mAh), Backup Battery: Rechargeable Ni-MH batteries (1.2 V, 1000 mAh), Operating Time: Approx. 80 hours (2 scans/10 sec)</td>
</tr>
</tbody>
</table>

**Power Supply Section**

- **Supported Symbologies**

**Endurance**

- **Immunity**
  - IP54

**Features**

- **Physical**
  - CPU: 4 MB, Memory: 128 dots x 128 dots

**Measurement**

- **Size**
  - (D) 96.0 mm Max
  - (W) 68.0 mm Max
  - (H) 70.0 mm Max

**Function**

- **Communication Method**
  - RS-232C, USB

**Overview**

- **Communication Method**
  - USB

**Parameter Specifications**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical Features</td>
<td>Size: 210 x 146.0 x 45.6 mm, Weight: Approx. 140 g (including 1/3 size battery)</td>
</tr>
<tr>
<td>Control Section</td>
<td>CPU: 32 bit RISC CPU, Memory: 4 MB, Flash Memory: 8 MB</td>
</tr>
<tr>
<td>Display</td>
<td>Type: FSTN transmissive LCD, Number of dots: 128 x 128 dots, Size: 0.49 mm x 0.49 mm, Pitch: 0.2 mm, Backlight: White LEDs, Contrast: 256 levels</td>
</tr>
<tr>
<td>Power Supply</td>
<td>Main Battery: Lithium-ion battery (7.7 V, 1000 mAh), Backup Battery: Rechargeable Ni-MH batteries (1.2 V, 1000 mAh), Operating Time: Approx. 80 hours (2 scans/10 sec)</td>
</tr>
</tbody>
</table>

**Power Supply Section**

- **Supported Symbologies**

**Endurance**

- **Immunity**
  - IP54

**Features**

- **Physical**
  - CPU: 4 MB, Memory: 128 dots x 128 dots

**Designated Cradles (Optional)**

- **Communication & Charging Cradle**
  - CRD-1001
  - CRD-1002
  - CRD-1003
  - CRD-1004

*Please refer to the specification manual or the instruction guide for details of designated cradles. The designated SIM card will be needed to use the CRD-1003 GSM cradle.

**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 tightly.

- **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 check the specification manual of the portable terminal for details of supported symbologies.
  - B. That 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**

- **Opticon in your local dealer:**
  - The Netherlands: Opticon Sensors Europe B.V., tel: +31 (0)23-5692700, email: sales@opticon.com
  - Sweden: Opticon Sensors Sweden AB, tel: +46 8-525 00 50, email: info@opticonsweden.com
  - United Kingdom: Opticon UK, tel: +44 1604 764000, email: info@opticonuk.com
  - France: Opticon France, tel: +33 (0)1-41461260, email: opticon@opticon.fr
  - Germany: Opticon Sensors Europe B.V., tel: 800-636-0090, email: opticon@opticonUSA.com
  - Italy: Opticon Sensors Europe B.V., tel: +39 02-89032840, email: info@opticonit.com
  - Austria: Opticon Sensors Europe B.V., tel: +43 1-89032840, email: info@opticon.at
  - Brazil: Opticon Sensors Brazil E.T., tel: +55 11-3893-0000, email: opticonbrasil@opticon.net

More detailed information and support options from the international office are available at www.opticon.com

*OPH-1004 Quick Start Guide* (opticonทัศน(4,2),(994,991))