Handheld 1D CCD Scanner OPC-3301i
Quick Start Guide

Introduction

- The OPC-3301i is a gun type CCD barcode scanner that reads 1D barcodes and can transmit the scanned data via Bluetooth.
- Read this quick start guide carefully before installing and/or using this product.
- Keep this quick start guide for future reference and store it in a safe place.

Precautions

⚠ Warning

- Do not throw this device into a fire. It may cause the device rupture, injury and fire.
- Keep the device out of the reach of small children. It may cause an accident and injury.

⚠ Caution

1. Handling

- Do not disassemble the device. It may cause heat, fire and injury.
- Do not operate the device while walking or driving a vehicle. It may cause accidents.
- Do not swing the device around by the strap.
  It may cause injury, an accident and damage to the device.
- Do not put heavy items on this product and apply any shock to the device.
  The device may get broken resulting in injury.
- Do not store this device in an extremely cold or hot environment.
  It may cause fire, deformation and malfunction of the device.
- Do not put this device close to fire. It may cause fire and an accident.
- Do not use this device near combustible materials.
  It may result in rupture and ignition of the device.
- Do not use this product near water or other liquids. It may cause the device to malfunction.
- Do not insert a sharp object into the buzzer hole.
  Waterproof sheet may be damaged resulting in a loss of waterproof performance.
- Do not store this device in dusty environments and in extremely high humidity.
- Avoid static electricity and do not put this device near a radio or a TV.
  Excessive static electricity may cause malfunctions.
- If perchance condensation formed on the device, abstain from the use of the device until moisture has evaporated to prevent malfunctions.
- When cleaning this product, rub gently with either a soft dry cloth or a damp cloth with mild detergent.
- When purchasing with an accompanying charger, make sure to use the dedicated AC adapter included in the box.

2. Radio Law

This product qualifies as specified radio equipment for radio stations of 2.4 GHz band data communication system and has obtained the Certification for Construction Design of Specified Radio Equipment. Therefore, radio station license is not required in Japan.
The following activities are prohibited under the Radio Law:

- Remodeling and disassembly
- Peeling off the certificate label

The information on the Bluetooth module is described as follows:

・Classification of Specified Radio Equipment	: Article 2 Paragraph 1, Item 19 Low power data communication system in 2.4 GHz band
・Model Name	: OPA-26X1
・Certificate Number	: 201-125603

3. Bluetooth

- BluetoothR is a registered trademark owned by Bluetooth SIG, Inc., U.S.A. and is used by OPTICON under license.
- This product supports Bluetooth wireless communication with other Bluetooth devices that have the same profile.
- This product complies with Bluetooth standards; however, its communication performance with untested devices is not guaranteed.
- Bluetooth devices use the 2.4 GHz frequency band that is shared among other devices. It may affect the communication speed and distance between the Bluetooth devices.
- The communication speed and distance vary depending on the interference and radio wave condition between this product and the host device.

4. Trademark Notice

- iPhone, iPad, iPod and iTunes Store are registered trademarks of Apple Inc.
- Android and Google Play are trademarks or registered trademarks of Google Inc.
- Other product and company names mentioned herein may be trademarks or registered trademarks of their respective owners.

"Made for iPod," "Made for iPhone," and "Made for iPad" mean that an electronic accessory has been designed to connect specifically to iPod, iPhone, or iPad, respectively, and has been certified by the developer to meet Apple performance standards. Apple is not responsible for the operation of this device or its compliance with safety and regulatory standards. Please note that the use of this accessory with iPod, iPhone, or iPad may affect wireless performance.

Made for iPod iPhone iPad

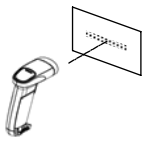
Made for iPhone model names
iPhone 6 Plus
iPhone 6
iPhone 5s
iPhone 5c
iPhone 5
iPhone 4s
iPhone 4

Made for iPad model names
iPad Air 2
iPad mini 3
iPad Air
iPad mini 2
iPad mini
iPad (4th generation)
iPad (3rd generation)
iPad 2
iPad

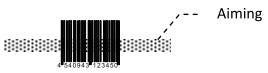
Made for iPod model names
iPod touch (5th generation)
iPod touch (4th generation)

5. Basic Scanning Operation

- Ensure that the scanner's position is not too close to a label when reading a barcode. The scanner cannot read the barcodes properly when they are very close.
- Make sure that the red aiming line is projected over the target barcode.

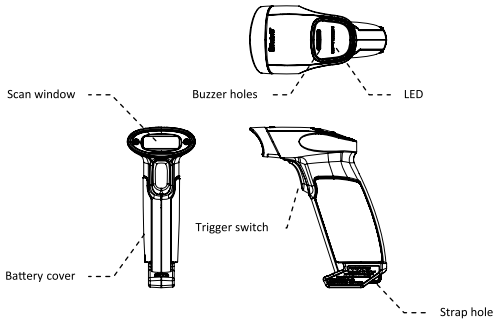


Keep a distance of 10 cm between the scanner and the label as a guide, and adjust it accordingly depending on the barcode size.



Position the center of aiming line over the barcode.

Detailed View



Connection Procedure
(Refer to the User's Guide for details)

■ Operation Summary

Bluetooth disconnected → Press trigger switch

Immediate	Scan barcode
Hold for 3 secs (blue LED blinking)	Reconnect Bluetooth
Re-press within 1 sec after holding for 3 secs (blue LED blinking)	Connect (Pairing)

Bluetooth connected → Press trigger switch

Immediate	Scan barcode
Hold for 5 secs	Disconnect Bluetooth

■ How to Connect

• Bluetooth-SPP

This connection mode is a serial connection mode. The OPNTerm or Microsoft HyperTerminal can be used to receive scanned data on host devices.

1. Scan "SPP mode" menu barcodes.
2. Press the trigger switch for 3 seconds and the scanner will make a short buzzer sound. Re-press the trigger switch within 1 second after the buzzer sounded to start a connection (pairing) with the host device. Blue LED blinks to indicate it is now waiting for the connection from the host device.
3. Search for Bluetooth device from the host device and select "OPC-3301i".
4. When PIN is required, input "1234" to the host device.
5. When the connection is made successfully, the scanner makes a buzzer sound and the green LED lights up briefly.
   * The connection may be completed after opening the serial port on the host device.

• Bluetooth-HID / Bluetooth-HID (for iPhone/iPad/iPod touch)

These connection modes work as if a Bluetooth keyboard were attached to the host device. This means that all data scanned is transmitted to the host device as if typed.

1. Scan the "HID mode" menu barcodes.
   When iOS device is used in HID mode, scan the "HID (for iPhone/iPad/iPod touch) mode" menu barcodes.
2. Press the trigger switch for 3 seconds and the scanner will make a short buzzer sound. Re-press the trigger switch within 1 second after the buzzer sounded to start a connection (pairing) with the host device. Blue LED blinks to indicate it is now waiting for the connection from the host device.
3. Search for Bluetooth device from the host device and select "OPC-3301i".
4. When PIN code is displayed on the host device, input it by scanning the "PIN code input" menu barcodes and scan "PINE" to end the input.
5. When the connection is made successfully, the scanner makes a buzzer sound and the green LED lights up briefly.

• Bluetooth-iPhone (excluding HID)

This connection mode is a serial connection mode similar to BT-SPP through Apple's proprietary interface for iOS devices. The OPNTerm can be used to receive scanned data.

1. Scan the "iPhone mode" menu barcodes.
2. Press the trigger switch for 3 seconds and the scanner will make a short buzzer sound. Re-press the trigger switch within 1 second after the buzzer sounded to start a connection (pairing) with the host device. Blue LED blinks to indicate it is now waiting for the connection from the host device.
3. Search for Bluetooth device from the host device and select "OPC-3301i".
4. When the connection is made successfully, the scanner makes a buzzer sound and the green LED lights up briefly.
   When OPNTerm is used as an iOS application, press [Connect] button to start communication with the OPC-3301i.

How to Disconnect

1. Press the trigger switch for 5 seconds.
2. When the connection is closed, red LED lights up and buzzer sounds 3 times.

How to Reconnect

The scanner has a function to reconnect to the last connected host device.
Use either one of the following two methods to reconnect:

- Press the trigger switch for 3 seconds.
- Read a barcode.

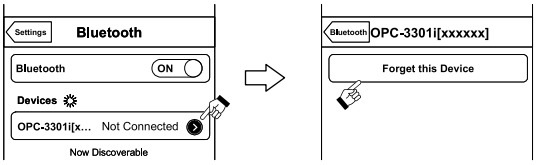
How to Switch to Silent Mode

This product has Silent mode for use in quiet environments.
Scan "Silent Mode" menu barcode to put the scanner in Silent mode.

Others

- When no operation has been performed for 3 minutes, the Bluetooth connection closes automatically.
- Wait time for the Bluetooth connection (pairing) is up to 3 minutes.
- A flashing orange LED indicates a low battery level. Recharge the battery with the enclosed charger immediately.
- When the scanner tries to connect (pair) to a host device that was previously connected, the connection may fail since the old connection information remains in the host device. Delete the scanner information form the host before making a connection (pairing).

E.g.



Demo Application

The following demo applications are offered for the operation check in SPP mode and iPhone mode, which are available for download from the iTunes Store or the Google Play.

OPNTerm

This is a dedicated terminal application which can show scanned data in real time and configure the scanner.

For iPhone, iPad, iPod touch
https://itunes.apple.com/app/opnterm/id556827245

For Android
https://play.google.com/store/apps/details?id=jp.co.opto.opn.opnterm2

OPNIME

This is an input method editor (IME) for the host device that does not have the Bluetooth HID profile. This IME enables the scanner to work as a virtual keyboard and to input data into existing applications, such as a Web browser form.

For Android
https://play.google.com/store/apps/details?id=jp.co.opto.opn.opnime2

* The URLs are subject to change without notice.

Basic Specifications

Dimensions	56 x 113 x 132 mm (WDH)
Weight	Approx. 120 g
Bluetooth	SPP / HID / iPhone
Power Supply	Lithium-ion battery 1100 mAh
Exterior Plastics	Molded ABS plastics
Environmental Specs	Operation temperature : 0 to 50 °C Storage temperature : -20 to 60 °C (non-condensing)
Others	Compliant with RoHS

Refer to the User's Guide for more detail on the configuration and usage, such as memorizing options. The User's Guide is available for download from the following URL.

URL :
http://www.opto.co.jp/products/tool/manual_download/

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Menu Labels for Configuration

Scan menu barcode labels from the top [ZZ] through the bottom [ZZ] to configure your barcode scanner for your particular application. Once the configuration is done, it will be saved on the scanner and you can use the scanner without reading the menu labels again from the next time.

Connection Mode

SPP mode

iPhone mode

HID mode

HID mode
(for iPhone / iPad / iPod touch)

Silent Mode

Enable buzzer

Disable buzzer

Default

This resets the scanner's configuration back to the factory default settings.

PIN Code Input

0 1 2 3 4 5 6 7 8 9 End