# 2D WIRELESS RING ... BARCODE SCANNER Quick Guide

For full user's manual, please contact your local distributor.



#### FCC WARNING STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undestred operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- · Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the
  receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

#### CF MARKING AND FUROPFAN LINION COMPLIANCE

Testing for compliance to CE requirements was performed by an independent laboratory. The unit under test was found compliant with all the applicable Directives, 2014/30/EU, 2014/35/EU and 2014/53/EU.

#### WASTE ELECTRICAL AND ELECTRONIC EQUIPMENT

The WEEE directive places an obligation on all EU-based manufacturers and importers to take-back electronic products at the end of their useful life.

#### ROHS STATEMENT OF COMPLIANCE

This product is compliant to Directive 2002/95/EC.



#### WARNING AND CAUTION



- 1. Take any metals into contact with the terminals in connectors.
- 2. Use the scanner where any inflammable gases.



- If following condition occur, immediately power off the host computer, disconnect the interface cable, and contact your nearest dealer.
- Smoke, abnormal odors or noises come from the scanner.
- 2. Drop the scanner so as to affect the operation or damage its housing.

#### Do not do behavior below.

- Put the scanner in places excessively high temperatures such as expose under direct sunlight.
- Use the scanner in extremely humid area or drastic temperature changes.
- Place the scanner in oily smoke or steam environment such as cooking range.
- Be covered or wrapped up the scanner in bad-ventilated area such as under cloth or blanket.
- 5. Insert or drop foreign materials or water into scanning window or vents.
- 6. Using the scanner while hand is wet or damp.
- Do Not
- 7. Use the scanner with anti-slip gloves containing plasticizer and chemicals or organic solvents such as benzene, thinner, insecticide etc to clean the housing. Otherwise, it could not result fire and electrical shock but housing may be broken and injured.
- 8. Scratch or modify the scanner and bend, twist, pull or heat its interface cable.
- 9. Put heavy objects on interface cable.
- Do not stare the light source from the scanning window or do not point the scanning window at other people's eyes or eyesight may be damaged by direct exposure under the light.



Do not put the scanner on an unstable or inclined plane. The scanner may drop, creating injuries.



Once the interface cable is damaged such as exposed or broken copper wires, stop using immediately and contact your dealer. Otherwise, it could result fire or electrical shock.

#### INTRODUCTION



## **SPECIFICATIONS**

Sensor Area Image Sensor Resolution 5mil/ 0.1mm (1D), 6.67mil/ 0.2mm (2D) Indicator LED, Buzzer **PCS** 40% Housing Plastic(PC+ABS) Profile BT HID, BT SPP, USB HID, USB VCP, Memory Battery Life 4500 scans (1 scan/ 5 sec) Charge Time 2.5 hours (fully charged) Radio Bluetooth 5.0 dual mode (Class2) 10M/33ft. (line of sight) Coverage Symbologies All major 1D & 2D barcodes

#### **BFFPFR INDICATION**

Good read Single beep Single short beep The scanner reads a Code39 of ASCII in configuration procedure Two beeps i Wireless connection

ii. The scanner successfully reads a configuration barcode Wireless disconnection Three beeps

Three short beeps i The scanner reads a barcode while disconnected

ii. The scanner reads an unexpected barcode during configuration procedure. (scan [ABORT] to abort and start over)

iii. Memory Full

Four beeps (Hi-Lo-Hi-Lo) Five beeps

Out of range/Poor connection Low power

#### LFD INDICATION

Off Standby or Power off Flashing Blue Disconnected or Discoverable One Green Flash Good Read Flashing Red Low power Solid Red Charging

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## **OUT OF THE BOX**

## **CHARGING THE BATTERY**



Wireless Ring Barcode Scanner



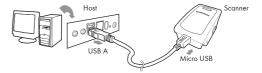
**USB Charger Cable** 



Quick Guide



Hang Tag



- 1. Flip open the micro USB port on the scanner. 2. Insert the micro USB connector into the port on the scanner and USB A connector into a USB port on the host PC.
- 3. Keep charging until the red LED indicator turns off.



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#### **STEP 1 - GETTING STARTED**

1. Pull open the long end and insert your index finger through the loop.



2. Adjust and attach the long end for a comfortable fit.



 Clench your fist and use your thumb to tap the touch-activated trigger button. A gentle touch on the button will work; there is no need to press with force.



4. Aim at the barcode you wish to scan.



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#### TFNTION

- If either your hand or the Velcro strap is soaking wet, the Laser beam may automatically light up without touch trigger. The scanner can still work well in this condition but it will waste battery power, so it is recommended to dry both your hand and the Velcro strap.
- 2. The following gloves have been tested to be working with the touch-activated button: latex examination glove, antistatic glove, white cotton glove (with or without latex coating), safety glove, and rubber glove. However, it is still recommended to operate with bare hand or thin glove to ensure the responsiveness of button.
- 3. Don't need to tighten Velcro strap too much. Just make the strap fit your finger so that the scanner will not easily move while being touched for trigger. We also suggest to release the strap from your finger for 1 minute after 2 hours of continuous use if your finger feels uncomfortable.

## **STEP 2 - BUTTON PREFERENCE**

Scan one of below configuration barcodes to determine which touch-sensing button to enable according to your habit:

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Right Button Only [For Left-handed User]

Left Button Only
[For Right-handed User]

**Both Buttons** 

#### **STEP 3 - INTERFACE SELECTION**

Scan one of below configuration barcodes to determine your interface:

BT HID



BT SPP



USB HID



USB VCP



Memory Mode



- 1. BT HID, BT SPP Emulates a Bluetooth HID keyboard or Bluetooth serial device, please see next page for details.
- Memory Mode Emulates a USB mass storage device that collects barcode off-line, please see page 24 - 28 for details.

#### **GETTING CONNECTED** ...

There are two modes of wireless communication:

.E043\$



[ Recommended ]

BT mode - HID

- Press power button to activate the scanner.
- 2. Scan [DISCONNECT]
- 3. Scan [BT mode HID]; the scanner will emit several beeps.
- 4. Select "Wireless Scanner" from discovered device list.
- If Bluetooth application requests for a pincode, see next page PINCODE SETUP. 

  , otherwise please skip this step.
- 6. The scanner will beep twice to verify the connection.

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BT mode - SPP

- 1. Press power button to activate the scanner.
- 2. Scan [DISCONNECT]
- 3. Scan [BT mode SPP]; the scanner will emit several beeps.
- Select "Wireless Scanner" from discovered device list. If pincode is requested, enter default pincode "1234".
- 5. Open serial communication software with com port (see Device Manager) properly set up.
- 6. The scanner will beep twice to verify the connection.



Disconnect

STEP 1

## **Pincode Start**



STEP 2

Scan numeric barcodes (see **NUMERIC BARCODES**.) section on the next pages) based on the pincode generated by the Bluetooth application.

STEP 3

Enter

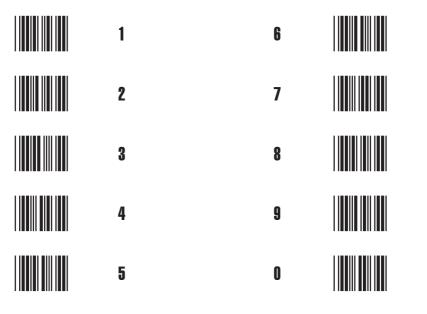


STEP 4

Pincode Stop



## NUMERIC BARCODES .



- 13 -

- 14 -

#### POWER OFF TIMEOUT

The period of inactivity before auto power-off.

#### Variable Timeout

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SFT MINUTE

(Range: 00 ~ 60)



SET SECOND

(Range: 00 ~ 59)

The default timeout is 00 minute and 30 seconds.

- For example, to set the timeout as 5 minutes 30 seconds:
- 1. Scan [Set Minute]
- 2. Scan [0] & [5] on page 13 & 14.
- 3. Scan [Set Minute]
- 4. Scan [Set Second]
- 5. Scan [3] & [0] on page 13 & 14.
- 6. Scan [Set Second]

## No Timeout (Scanner Always On)



DISABLE TIMFOUT

Warning! This will cause the battery to drain quickly.

Please follow below instruction to toggle touch keyboard on smartphone/tablet.

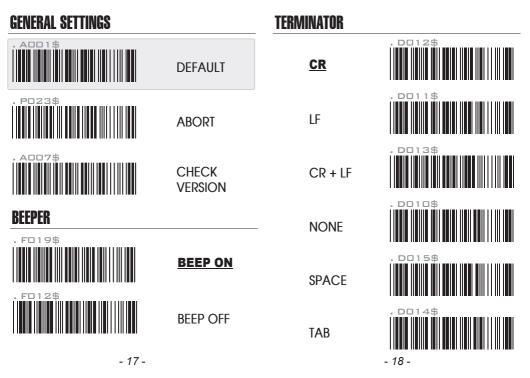
#### ins

To toggle iOS touch keyboard, please simply press the function button.



#### Android

- 1. Enter "Settings"
- 2. Enter "Language & input"
- 3. In Keyboard & input window, tap "Default" to continue.
- 4. Turn off "Hardware Physical keyboard", and the Touch Keyboard will function properly again.



# KEYBOARD LAYOUT

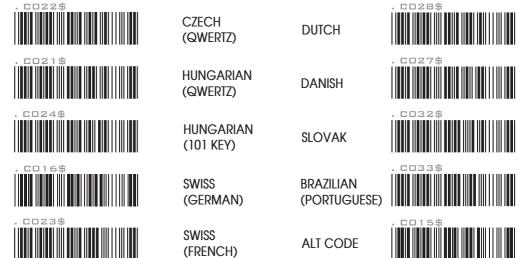


**ENGLISH** 

. COO9\$

**JAPAN** 

# KEYBOARD LAYOUT



BELGIAN

(AZERTY)

**CZECH** 

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(QWERTY)

. CO3O\$

- 22 -

## **ENABLE SYMBOLOGIES**

## MEMORY MODE



#### **FNABLE** ALL CODE

#### **MEMORY MODE**



After scanning the above barcode, the scanner will be able to collect barcode data off-line. The barcode data will be stored in the format of:

< Date >, < Time >, < Barcode Data > < CR >



#### **ENABLE** ALL 1D CODE

To retrieve stored data, please connect the scanner to the host with cable, access removable storage device "MiniScan" from which you may open or copy the file "BARCODE.txt" to your computer.

To delete ONE stored data, please scan below barcode. Alternatively, you may press the function button once.



#### **ENABLE** ALL 2D CODE

#### DELETE LAST DATA



To delete ALL stored data, simply delete the file "BARCODE.txt" in the removable storage device "MiniScan" until you hear two beeps.

## MEMORY MODE **DATE** & TIME SETUP

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SET DATE

Example: To set Date to 2017-08-01 (Year-Month-Day):

- 1. Scan [Set Date]
- 2. Scan [1], [7], [0], [8], [0], [1] on page 13 & 14.
- 3. Scan [Set Date]



SET TIME

Example: To set Time to 08:10:30 am (Hr:Min:Sec)

- 1. Scan [Set Time]
- 2. Scan [0], [8], [1], [0], [3], [0] on page 13 & 14.
- 3. Scan [Set Time]
- \* Full drain of battery may cause the Time and Date to stop. To avoid this, please, please fully charge the scanner for at least 1 hour before use.

#### MEMORY MODE 🔳 DATA FORMAT

#### DATA FORMAT



The default Data Format is <Date>, <Time>, <Barcode Data> only below are all items available for display and their codes:

Code	Item	Code	Item
2	Date	3	Time
4	Barcode Data		

#### Example:

To change Data Format to <Barcode Data>, <Date>, <Time>

- 1. Scan [Data Format]
- 2. Scan [4], [2], [3] on page 13.
- 3. Scan [Data Format]

## FIELD SEPARATOR (DELIMITER)



Default is comma (, ) You may replace it with any alphanumeric characters from the full ASCII table in Full User's Manual.

Example: To change Field Separator to Semicolon (;)

- 1. Scan [Field Separator]
- 2. Scan [;] from the full ASCII table.
- 3. Scan [Field Separator]

## MEMORY MODE DATE FORMAT



DATE FORMAT

The default Date Format is DD/MM/YYYY (Code = 09), below is full list of available formats and their setup codes:

Code	Format	Code	Format
01	DD-MM-YYYY	09	DD/MM/YYYY
02	MM-DD-YYYY	10	MM/DD/YYYY
03	DD-MM-YY	11	DD/MM/YY
04	MM-DD-YY	12	MM/DD/YY
05	YYYY-MM-DD	13	YYYY/MM/DD
06	YY-MM-DD	14	YY/MM/DD
07	DD-MM	15	DD/MM
80	MM-DD	16	MM/DD

#### Example:

To set Date Format to MM/DD/YY (Code = 12)

- 1. Scan [Date Format]
- 2. Scan [1], [2] on page 13.
- 3. Scan [Date Format]

#### MEMORY MODE TIME FORMAT

#### TIME FORMAT



The default Time Format is HH:MM:SS (Code = 01), below are available formats and their setup codes:

Code	Format	Code	Format
01	HH:MM:SS	02	НН:ММ

#### Example:

To set Time Format to HH:MM (Code = 02)

- 1. Scan [Time Format]
- 2. Scan [0], [2] on page 13 & 14
- 3. Scan [Time Format]

## **HOW TO REMOVE VELCRO STRAP**

1. Pull open the long end.



2. Pull out the long end through the slot.



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3. Pull open the short end on the other side.



4. Remove the whole Velcro strap from the scanner by pulling the long end.



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## HOW TO INSTALL VELCRO STRAP

 Insert the short end through the slot, with Velcro side facing upwards.



2. Attach the short end to the long end to close.



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3. Insert the long end through the other slot, with Velcro side facing upwards.



4. Attach the long end to itself to close.



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## **TEST BARCODES**

## **TEST BARCODES**

#### Code 39





9876543210





**QR Code** 



Micro QR Code



**PDF417** 



**Data Matrix** 



#### **Aztec**



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