2D WIRELESS ... BARCODE SCANNER Quick Guide



FCC WARNING STATEMENT

This device complies with Part 15 of FCC Rules. Operation is Subject to following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received including interference that cause undesired operation.

This equipment has been tested and found to comply within 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 different circuit from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

CANADIAN DOC STATEMENT

This digital apparatus does not exceed the Class B limits for radio noise for digital apparatus set out in the Radio Interference Regulations of the Canadian Department of Communications

Le présent appareil numérique n'émet pas de bruits radioélectriques dépassant les limites applicables aux appareils numériques de las classe B prescrites dans le Réglement sur le brouillage radioélectrique édicté par les ministère des Communica tions du Canada

CE MARKING AND EUROPEAN UNION 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. 2004/108/EC and 2006/95/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.

- 1. Put the scanner in places excessively high temperatures such as expose under direct sunlight.
- 2. Use the scanner in extremely humid area or drastic temperature changes.
- 3. Place the scanner in oily smoke or steam environment such as cooking
- 4. 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.

OUT OF THE BOX



2D Wireless Barcode Reader



Quick Guide

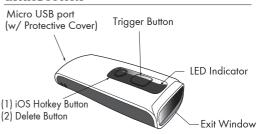


USB Charger Cable



Neck Strap

INTRODUCTION



SPECIFICATIONS

Light source 625nm red LED Scan rate 60 frames/sec

Sensor 752 x 480 CMOS sensor

Resolution 5mil/1D barcode; 6.67mil/2D barcode

PCS 30%
Housing Plastic (PC)
Profile SPP, HID
Battery Life 10000 scans

Charge Time 3 hours (fully charged)
Coverage 10M/33ft. (line of sight)
Operating Temp -20 to 60°C (-4°F to 140°F)

Symbologies QR Code, DataMatrix, PDF417 & major 1D barcodes

GETTING STARTED











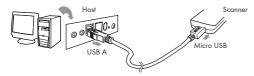






To scan a barcode, make sure the aiming spot is pointed directly at the barcode scanned.

CHARGING THE BATTERY



- 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 or smartphone/tablet adapter.

BEEPER INDICATION

Single long beep Single beep Single short beep

Power up Good read

Two beeps

The scanner reads a Code39 of ASCII in configuration procedure i Wireless connection

ii. The scanner successfully reads

Two short beeps Four beeps (Hi-Lo-Hi-Lo) Five beeps Three beeps Three short beeps

a configuration barcode Good read (Batch mode/Memory mode) Out of range/Poor connection

Low power

Wireless disconnection i The scanner reads a barcades

while disconnected

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

Several short beeps

The scanner switches from one communication mode to another

LED INDICATION

Off Flashing Blue Green for 2 sec Flashing Red Solid Red

Standby or Power off Disconnected or Discoverable Good Read

Low power Charging

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- 5 -

INTERFACE

.EO43\$

BT HID

Memory Mode

USB VCP

BT SPP

C008\$

C006\$

C035\$

E042\$

USB HID

INTERFACE

There are 5 interfaces for data transmission/collection:

- 1. BT HID Emulates a Bluetooth HID keyboard that transmits each barcode data to the host after decode (See page 9)
- 2. BT SPP Emulates a Bluetooth SPP device that transmits each barcode data to the host after decode. (See page 9)
- 3. Memory Mode Emulates a USB mass storage device that saves each barcode data during off-line data collection (See page 26)
- 4. USB HID Emulates a USB keyboard that transmits each barcade data to the host after decade
- 5 USB VCP Emulates a USB virtual com device that transmit each barcode data to the host after decode. Driver is downloadable from website.

Function Support Matrix

Mode	Interface	On-line Operation	Off-line Operation	Ez Utility
Wireless	BT HID	√		
	BT SPP	✓		
Tethered	Memory		✓	
	USB HID	√		✓
	USB VCP	✓		✓

^{*}Note: For Ez Utility(PC-based software utility), please contact your local distributor - 8 -

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GETTING CONNECTED .

There are two modes of wireless communication:

.EO43\$



[Recommanded]

BT mode - HID

1. Press the trigger for 1 second 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 the Bluetooth application requests to enter pincode, please refer to PINCODE SETUP & section on the next page.
- 6. The scanner will beep twice to verify the connection.

.E042\$



BT mode - SPP

- 1. Press the trigger for 1 second 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. No pincode is required.
- 5. The scanner will beep twice to verify the connection.

. E031\$

Disconnect

STEP 1

Pincode Start



STEP 2

STEP 3

Enter

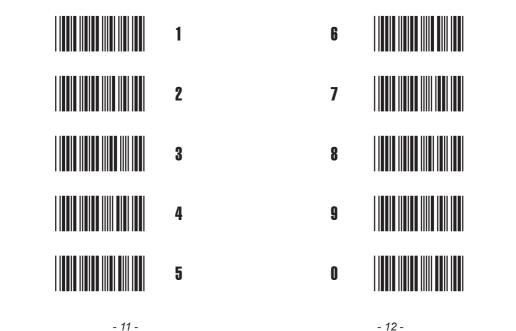


STEP 4

Pincode Stop



NUMERIC BARCODES .



SMARTPHONE/TABLET CONNECTION

Getting Connected - iOS & Android

- 1. Press the trigger for 1 second to power up the scanner.
- 2. Scan below configuration barcode to clear last pairing record.



Disconnect

3. Scan below configuration barcode; the scanner will emit several beeps.





BT mode - HID

4. Select "Wireless Scanner" from discovered device list.



5. The scanner will beep twice to verify the connection.

DEVICES

Wireless Scanner

Connected (i

i

Now Discoverable

- 13 -

SMARTPHONE/TABLET TOUCH KEYBOARD

Touch Keyboard - iOS

iOS Hotkey Button



To toggle iOS Touch Keyboard, please press this button.

Touch Keyboard - Android

While connected with the scanner, the Touch Keyboard on the Android smartphone or tablet might disappear. To resolve this issue, please change settings on Android device with below steps:

- 1. Enter "Settings"
- 2. Enter "Language & input"
- 3. Tap on "Default keyboard"
- Turn off "Physical keyboard", or Turn on "On-screen keyboard" and the Touch Keyboard will function properly again.



POWER OFF TIMEOUT

The timeout of inactivity before auto power-off.

Variable Timeout

. BO3O\$



SET MINUTE (Range: 00 ~ 60)

.B029\$



SFT SFCOND

(Ranae: 00 ~ 60)

The default timeout is 3 minutes 0 second

For example, to set the timeout as 5 minutes 30 seconds:

- 1. Scan [Set Minute]
- 2. Scan [0] & [5] on page 11 & 12.
- 3. Scan [Set Minute]
- 4. Scan [Set Second]
- 5. Scan [3] & [0] on page 11 & 12.
- 6. Scan [Set Second]

No Timeout (Scanner Always On)

. BO21\$



DISABLE TIMEOUT

RINARY CHECK CHARACTER

FNABLE



DISABLE



Once enabled, a checksum will be added to the end of each data to conduct Xor calculation. For Bluetooth SPP & USB-VCP, the BCC is 1 byte. For Bluetooth HID, the BCC are 2 bytes.

Example:

The barcade data is "TEST" with terminator <CR><LE>

1. Bluetooth SPP & USB-VCP:

2 Bluetooth HID:

However, since control character cannot be displayed in Bluetooth HID, BCC will be converted into 2 bytes of characters. As a result, the data will be: $TEST + \langle Enter \rangle + F + 1$

GENERAL SETTINGS READING MODE . FOO2\$ **DEFAULT TRIGGER** . PO23\$. FOO5\$ **CONTINUOUS ABORT** . A007\$. FOO6\$ **CHECK** CONTINUOUS **VERSION AUTO OFF BEEPER VIBRATOR**

BEEP OFF



VIBRATOR OFF

FO12\$

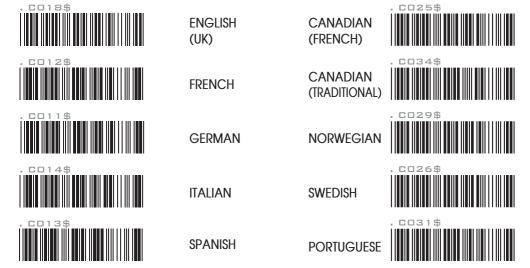
. FO18\$

. DO35\$

KEYBOARD LAYOUT

- 19 -

. CO10\$



ENGLISH (USA) . C009\$

- 20 -

JAPAN

(106 key)

KEYBOARD LAYOUT



ENABLE SYMBOLOGIES



.GO10\$

TFRMINATOR

. DO11\$

. DO12\$

CR

I F



CR + LF



NONE



SPACE



TAB

MEMORY MODE

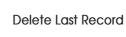
Memory Mode



After scanning the above barcode, the scanner will be able to collect barcode data off-line. The barcade data will be stored in the format of < Date >. < Time >. < Barcode Data > < CR >

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 or press Delete Button.







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

MEMORY MODE

. ROO6\$

SET DATE

Example: To set Date to 2014-08-01 (Year-Month-Day):

1. Scan [Set Date]

2. Scan [1], [4], [0], [8], [0], [1] on page 11 & 12.

3. Scan [Set Date]

. R007\$

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 11 & 12.

3. Scan [Set Time]

* To avoid Time and Date being reset to factory default due to running out of battery, please fully charge the scanner for at least 3 hours before use.

MEMORY MODE

DATA FORMAT



The default Data Format is <Date>, <Time>, <Barcode Data> below are the codes for each item:

Code	Item	Code	ltem	
2	Date Barcode Data	3	Time	

Example:

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

- 1. Scan [Data Format]
- 2. Scan [4], [2], [3] on page 11.
- 3. Scan [Data Format]

MEMORY MODE

. ROOS\$

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 11.
- 3. Scan [Date Format]

MEMORY MODE

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	HH:MM

Example:

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

- Scan [Time Format]
- 2. Scan [0], [2] on page 11 & 12.
- 3. Scan [TimeFormat]

TEST BARCODES

TEST BARCODES

Code 39



CODE-39 TEST

Interleaved 2 of 5



9876543210

Code 128



12345678

EAN



QR Code



PDF417



DataMatrix

