MINI WIRELESS ⋙ BARCODE READER

Quick Guide

Full user's manual is available on the enclosed CD.
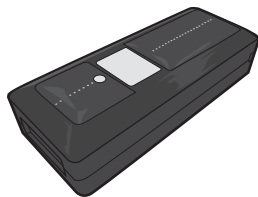
FCC WARNING STATEMENT

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 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.

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 Règlement sur le brouillage radioélectrique édicté par les ministère des Communications 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.

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.

NON-MODIFICATION STATEMENT

Changes or modifications not expressly approved by the party responsible for compliance

CE FC RoHS

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. 1. 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 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 range. 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. 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

Mini Wireless Barcode Reader
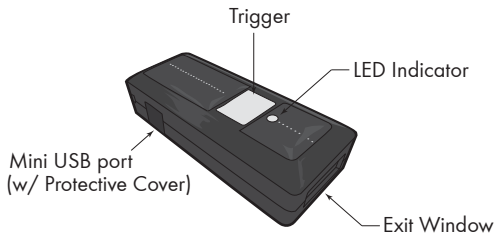

CD

Quick Guide

Quick Connection Card

USB Charger Cable

Hand Strap

## INTRODUCTION

Trigger

LED Indicator

Mini USB port (w/ Protective Cover)

Exit Window

SPECIFICATIONS

Light source	625nm visible red LED
Scan rate	240 scans/sec
Sensor	Linear CMOS sensor
Resolution	5mil/ 0.127mm
PCS	30%
Housing	Plastic(ABS)
Profile	SPP, HID
Working Hours	8 hours (1 scan/ 5 sec)
Charge Time	2 hours (fully charged)
Coverage	10M/33ft. (line of sight)
Operating Temp	0 to 50°C (32°F to 122°F)
Symbologies	All major 1D barcodes incl. GS1 Databar

GETTING STARTED

IIIIIIIIIIIIIIIIII	☑
IIIIIIIIIIIIIIIIII	☑
IIIIIIIIIIIIIIIIII	☒
IIIIIIIIIIIIIIIII	☒
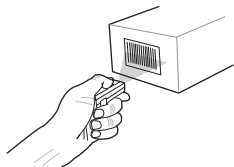
To scan a barcode, make sure the aiming beam crosses every bar and space of the barcode.

CHARGING THE BATTERY
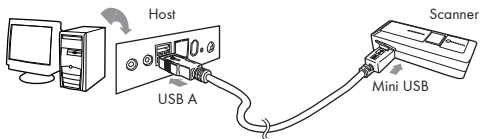
1. Flip open the mini USB port on the scanner.
2. Insert the mini USB connector into the port on the scanner and USB A connector into a USB port on the host PC.

BEEPER INDICATION

Single long beep	Power up
Single beep	Good read
Single short beep	The scanner reads a Code39 of ASCII in configuration procedure
Two beeps	Wireless connection
Two short beeps	The scanner successfully reads a configuration barcode
Five beeps	Low power
Three beeps	Wireless disconnection
Three short beeps	i. The scanner reads a barcodes while disconnected. ii. The scanner reads an unexpected barcode during configuration procedure. (scan [RESET] to abort and start over)
Eight short beeps	The scanner switches from one communication mode to another

LED INDICATION

Off	Standby or Power off
Flashing Green	Disconnected or Discoverable
Green for 2 sec	Good Read
Flashing Red	Low power
Solid Red	Charging

GETTING CONNECTED 🔊

There are two modes of wireless communication:

. E042$

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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 8 beeps.
4. Select "Wireless Scanner" from discovered device list.
   The default pincode is "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.

. E043$

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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 8 beeps.
4. Select "Wireless Scanner" from discovered device list.
5. The Bluetooth application may prompt you to scan
   a pincode(see **PINCODE SETUP** 🔊 section) it generated.
6. The scanner will beep twice to verify the connection.

. E031$

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Disconnect

PINCODE SETUP 🔊

STEP 1

Pincode Start

. E032$

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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

$TX

||||||||||||||||||||||||||||||||

STEP 4

Pincode Stop

. E033$

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NUMERIC BARCODES

	1	6	
	2	7	
	3	8	
	4	9	
	5	0	

SMARTPHONE CONNECTION - iOS (Apple)

Getting Connected

Please pair with the scanner via [**BT mode - HID**]. (page 7)

Getting Connected without Pincode

. E049$

ENABLE SSP

Secure Simple Pairing (SSP), supported by Bluetooth 2.1 or above, allows you to pair with iOS without pincode. Please scan [**Enable SSP**] above before entering the pairing procedure of [**BT mode - HID**]. (page 7)

Touch Keyboard

. E047$

ENABLE iOS HOTKEY

. E048$

DISABLE iOS HOTKEY

1. After enabling iOS Hotkey(disabled by default), you may simply double-click the trigger to toggle the iPhone/iPad Touch Keyboard.
2. The function is supported by firmware 1.04 or higher.

SMARTPHONE CONNECTION - Android

Getting Connected

To get connected to Android, please follow the instruction in [**BT mode - SPP**] (page 7)

*Note:
1. Android 3.0 or higher version may also support Bluetooth HID profile.
2. If you operate in SPP mode but your application does not support direct external device connections, please refer to below section.

Keyboard Wedge Software (BluetoothConnect)

BluetoothConnect is a free keyboard wedge software that can convert SPP data into virtual key-strokes on any Android applications. Please follow below steps:

1. Pair with the scanner via [**BT mode - SPP**]. (page 7)
2. Enable unknown resources in Android Authority.
3. Install BluetoothConnect.apk, which is available on CD, and enter the program.
4. Enable BluetoothConnect in the Language & Keyboard setting window and choose BluetoothConnect as Current Input Method.
5. Click [Connect to Barcode Reader] on the menu and select the paired wireless scanner.
6. The scanner will beep twice to verify a successful connection.

*Note: Please contact with your sales representative for detailed information on BluetoothConnect.

POWER OFF TIMEOUT

The timeout before automatic power-off to save power.

. B017$

1 MIN

. B018$

<u>3 MIN</u>

. B019$

5 MIN

. B020$

10 MIN

. B021$

DISABLE
(NO POWER-OFF)

LINK QUALITY

. E035$

<u>ENABLE</u>

. E036$

DISABLE

Link Quality (enabled by default) ensures a more secure data transmission from the scanner to the cradle/host. To make the transmission range wider, you may disable Link Quality, but the data transmission security will become less reliable.

GENERAL SETTINGS

. A001$	DEFAULT
. P023$	RESET
. A007$	CHECK VERSION

BEEPER

. F012$	BEEP OFF
. F018$	**BEEP ON**

READING MODE

. F002$	**TRIGGER**
. F003$	TOGGLE
. F001$	FLASH
. F005$	CONTINUOUS
. F006$	CONTINUOUS AUTO OFF

KEYBOARD LAYOUT

. C010$

ENGLISH (USA)

. C018$

ENGLISH (UK)

. C012$

FRENCH

. C011$

GERMAN

. C014$

ITALIAN

. C013$

SPANISH

JAPAN (106 key)

. C009$

CANADIAN (FRENCH)

. C025$

CANADIAN (TRADITIONAL)

. C034$

NORWEGIAN

. C029$

SWEDISH

. C026$

PORTUGUESE

. C031$

KEYBOARD LAYOUT

.C017$

CZECH
(QWERTY)

.C022$

CZECH
(QWERTZ)

.C021$

HUNGARIAN
(QWERTZ)

.C024$

HUNGARIAN
(101 KEY)

.C016$

SWISS
(GERMAN)

.C023$

SWISS
(FRENCH)

.C030$

BELGIAN
(AZERTY)

.C028$

DUTCH

.C027$

DANISH

.C032$

SLOVAK

.C033$

BRAZILIAN
(PORTUGUESE)

.C015$

ALT CODE

ENABLE SYMBOLOGIES

. A002$

ENABLE
ALL CODE

CODE 93

. G010$

. K010$

CODE 32

IATA

. N017$

. L010$

UK PLESSEY

TELEPEN

. L014$

. L001$

MSI

GS1 DATABAR

. N032$

. N001$

INDUSTRIAL
2 OF 5

GS1 DATABAR
LIMITED

. N010$

. M010$

MATRIX
2 OF 5

GS1 DATABAR
EXPANDED

. N026$

TERMINATOR

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ **CR**

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ LF

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ CR + LF

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ NONE

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ SPACE

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖ TAB

The following pages only apply to the memory version mini wireless scanner.

The firmware version with suffix "MEM" supports memory function.
e.g. SM3-c-X.XX.BTA.MEM

The firmware version can be found either on the scanner box or by scanning below barcode.

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CHECK VERSION

MEMORY MODE 🔲

For memory version only

`. R001$`

ENABLE MEMORY

`. R002$`

DISABLE MEMORY

Once enabled, the scanner will stop sending data via Bluetooth and start storing data into the internal flash disk.

Delete Last Record/ Clear All Record

`. R005$`

DELETE LAST RECORD

`. R004$`

CLEAR ALL RECORD

OUTPUT DATA 🔲

For memory version only

`. R003$`

OUTPUT DATA

You may output data ONLY when memory is enabled (page 15).

Data Output Method

WIRELESS

`. R014$`

USB-VCP

`. R013$`

To output stored data via Wireless, please do the following:
1. Scan [**WIRELESS**]
2. Scan [**OUTPUT DATA**]

To output stored data via USB-VCP, please do the following:
1. Install VCP driver (available on CD)
2. Connect the scanner & host with USB cable
3. Scan [**USB-VCP**]
4. Save data as *.csv by "Covert to CSV.exe" (available on CD)

DATA FORMAT 🔲

For memory version only

. R011$

DATA FORMAT

The default Data Format is <Item No.>, <Date>, <Time>, <Barcode Data> below are items and their setup codes:

Code	Item	Code	Item
1	Item No.	3	Time
2	Date	4	Barcode Data

Example:
To change Data Format to <Item No.>, <Barcode Data>, <Date>, <Time>
1. Scan [Data Format]
2. Scan [1], [4], [2], [3] on page 9.
3. Scan [Data Format]

. R010$

FIELD SEPARATOR

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

Example: To change Field Separator to Semicolon (;)
1. Scan [Field Separator]
2. Scan [;] from the full ASCII table.
3. Scan [Field Separator]

DATE & TIME SETUP 🔲

For memory version only

. R006$

SET DATE

Example: To set Date to 2012-08-01 (Year-Month-Day):
1. Scan [Set Date]
2. Scan [1], [2], [0], [8], [0], [1] on page 9 & 10.
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 9 & 10.
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.

DATE FORMAT ▣

. R008$

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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
08	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 9.
3. Scan [Date Format]

TIME FORMAT ▣

. R009$

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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)
1. Scan [Time Format]
2. Scan [0], [2] on page 9 & 10.
3. Scan [TimeFormat]