

For more detailed scanner setting,
please go to www.ute.com to
download the user manual and scanner
configuration manager utility.



MS912+ WIRELESS BARCODE SCANNER Quick Guide



Version 1.8

OUT OF THE BOX



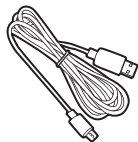
Wireless Pocket
Scanner



Quick Guide



Quick Connection Card

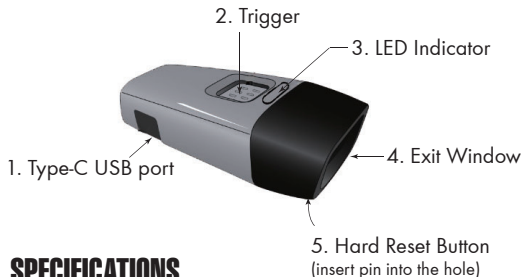


USB Charger Cable



Wrist Lanyard

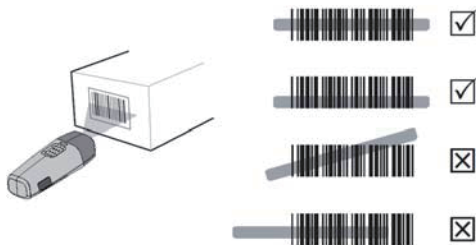
INTRODUCTION



SPECIFICATIONS

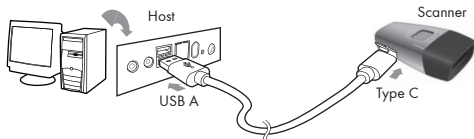
Light source	625nm visible red LED
Scan rate	650 scans/sec
Sensor	Linear CMOS sensor
Resolution	4mil/ 0.1mm
PCS	30%
Housing	Plastic(PC+ABS)
Profile	SPP, HID
Battery Life	6000 scans (1 scan/ 5 sec)
Charge Time	2 hours (fully charged)
Coverage	10M/33ft. (line of sight)
Operating Temp	-10 to 50°C (14°F to 122°F)
Symbologies	All major 1D barcodes incl. GS1 Databar

GETTING STARTED



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

CHARGING THE BATTERY



1. Flip open the Type-C USB port on the scanner.
2. Insert the Type-C USB connector into the port on the scanner and USB A connector into a USB port on the host PC or a smartphone charger.

BEEPER INDICATION

Single long beep
Single beep
Single short beep

Two beeps

Two short beeps
Three beeps
Three short beeps

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

LED INDICATION

Off
Flashing Green
One Green Flash
Flashing Red
Solid Red

Power up
Good read
The scanner reads a Code39 of ASCII in configuration procedure
i. Wireless connection
ii. The scanner successfully reads a configuration barcode
Good read (Auto mode)
Wireless disconnection
i. The scanner reads a barcodes while disconnected.
ii. The scanner reads an unexpected barcode during configuration procedure. (scan [ABORT] to abort and start over)
Out of range/Poor connection
Low power
The scanner switches from one communication mode to another

Standby or Power off
Disconnected or Discoverable
Good Read
Low power
Charging

INTERFACE

. E043\$



BT HID

. E042\$



BT SPP

. C035\$



Batch Mode
(MS912M+ only)

. C008\$



USB HID

. C006\$



USB VCP

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 7)
2. **BT SPP** - Emulates a **Bluetooth SPP device** that transmits each barcode data to the host after decode.
(See page 7)
3. **Batch Mode** - Emulates a **USB mass storage device** that saves each barcode data during off-line data collection (See page 23)
4. **USB HID** - Emulates a **USB keyboard** that transmits each barcode data to the host after decode.
5. **USB VCP** - Emulates a **USB virtual com device** that transmit each barcode data to the host after decode.

Function Support Matrix

Mode	Interface	Auto Mode	Batch Mode	Ez Utility
Wireless	BT HID	✓		
	BT SPP	✓		
Tethered	Batch		✓	
	USB HID			✓
	USB VCP			✓

*Note: For Ez Utility(PC-based software utility), please contact your local distributor.

GETTING CONNECTED

There are two modes of wireless communication:

. E043\$



[Recommended]

BT mode - HID

1. Press the trigger for 1 second to activate the scanner.
2. Scan [**DISCONNECT**]
3. Scan [**BT mode - HID**]
4. Select "Wireless Scanner" from discovered device list.
5. 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**]
4. Select "Wireless Scanner" from discovered device list.
If pincode is requested, enter default pincode "1234".
5. Open serial communication software with com port properly set up.
6. The scanner will beep twice to verify the connection.

. E031\$



Disconnect

PINCODE SETUP

STEP 1

Pincode Start

. E032\$



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\$



NUMERIC BARCODES



1



2



3



4



5

6



7



8



9



0



POWER OFF TIMEOUT

The period of inactivity before auto power-off.

Variable Timeout

. B030\$



SET MINUTE
(Range: 00 ~ 60)

. B029\$



SET SECOND
(Range: 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 9 & 10.
3. Scan [Set Minute]
4. Scan [Set Second]
5. Scan [3] & [0] on page 9 & 10.
6. Scan [Set Second]

No Timeout (Scanner Always On)

. B021\$



DISABLE
TIMEOUT

SMARTPHONE/TABLET TOUCH KEYBOARD

Touch Keyboard - iOS

. E047\$



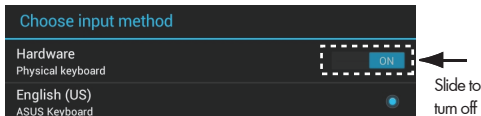
ENABLE iOS HOTKEY

After enabling iOS Hotkey(enabled by default), you may simply double-click the trigger to toggle the iPhone/iPad Touch Keyboard.

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"
4. Turn off "Physical keyboard", or Turn on "On-screen keyboard" and the Touch Keyboard will function properly again.



GENERAL SETTINGS

. A001\$



DEFAULT

. P023\$



ABORT

. A007\$



CHECK
VERSION

BEEPER

. F012\$



BEEP OFF

. F018\$



BEEP ON

TERMINATOR

CR

LF

CR + LF

NONE

SPACE

TAB

. D012\$



. D011\$



. D013\$



. D010\$



. D015\$



. D014\$



KEYBOARD LAYOUT

. C010\$



ENGLISH
(USA)

. C018\$



ENGLISH
(UK)

. C012\$



FRENCH

. C011\$



GERMAN

. C014\$



ITALIAN

. C013\$



SPANISH

. C009\$



JAPAN
(106 key)

. C025\$



CANADIAN
(FRENCH)

. C034\$



CANADIAN
(TRADITIONAL)

. C029\$



NORWEGIAN

. C026\$



SWEDISH

. C031\$



PORTUGUESE

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

. K010\$



CODE 32

. L010\$



UK PLESSEY

. L001\$



MSI

. N001\$



INDUSTRIAL
2 OF 5

. M010\$



MATRIX
2 OF 5

CODE 93

. G010\$



. N017\$



IATA

. L014\$



TELEPEN

. N032\$



GS1 DATABAR

. N010\$



GS1 DATABAR
LIMITED

. N026\$



GS1 DATABAR
EXPANDED

BINARY CHECK CHARACTER

. E029\$



ENABLE

. E030\$



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 barcode data is "TEST" with terminator <CR><LF>

1. Bluetooth SPP & USB-VCP:

Data Format = <T> + <E> + <S> + <T> + <CR> + <LF> + <BCC>.

BCC = $54h \wedge 45h \wedge 53h \wedge 54h \wedge 0Dh \wedge 0Ah = 11h$

2. Bluetooth HID:

Data Format = <T> + <E> + <S> + <T> + <Enter> + <BCC>

BCC = $54h \wedge 45h \wedge 53h \wedge 54h \wedge E7h = F1h$

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 + <Enter> + F + 1

AUTO MODE

For MS912M+ only

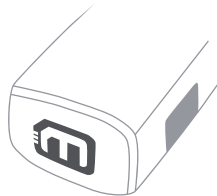
Being out of range, the scanner will temporarily keep scanned data in its memory buffer(2K RAM) until the buffer is full. The scanner will send all stored data back to the host after getting in range.

*Note: Auto Mode will not function when Batch Mode is enabled, or no connection is made beforehand.

BATCH MODE

For MS912M+ only

The following pages only apply to the batch version mini wireless scanner, MS912M+ (P/N: MS912-FUBB00-SG/TG), which can be easily distinguished by an "M" mark on the rear of the scanner.



BATCH MODE

For MS912M+ only

. C035\$



BATCH MODE

After scanning the above barcode, the scanner will be able to collect barcode data off-line.

To delete ONE stored data, please scan below barcode :

. R005\$



DELETE LAST DATA

To delete ALL stored data, simply connect the scanner to the host with cable, delete the file **"BARCODE.txt"** in the removable storage device **"MiniScan"** until you hear two beeps.

BATCH MODE

For MS912M+ only

Retrieve Batch Data - *.txt File

To retrieve stored data as *. file, 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.

The barcode data will be displayed in the format of:
< Date >, < Time >, < Barcode Data > < CR >

Retrieve Batch Data - Direct Output

To retrieve stored by direct output, please switch interface to BT HID, BT SPP, USB HID or USB VCP (See page 5-6 for details). Then scan below configuration barcode to output all stored data directly to the host:

. R003\$



OUTPUT DATA

The barcode data will be displayed in the format of:
< Date >, < Time >, < Barcode Data > < CR > < LF >

. R011\$

**DATA FORMAT**

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

Code	Item	Code	Item
2	Date	4	Barcode Data
3	Time	5	Quantity

Example:

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

1. Scan [Data Format]
2. Scan [4], [5], [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 www.ute.com).

Example: To change Field Separator to Semicolon (;)

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

. R008\$

**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]

. R009\$

**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]

. R006\$

**SET DATE**

Example: To set Date to 2023-01-01 (Year-Month-Day):

1. Scan [Set Date]
2. Scan [2], [3], [0], [1], [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 drained battery, please fully charge the scanner for at least 2 hours before use.

. R017\$

**ENABLE QUANTITY INPUT**

When quantity input is enabled, the operation procedure under batch mode will be:

1. Scan [BATCH MODE] (page 23)
2. Include <Quantity> in DATA FORMAT (page 25). For example, your data format is <Barcode Data>, <Quantity>.
3. Scan a desired barcode; it will be stored as <Barcode Data>.
4. Scan [SET QUANTITY] below.
5. Scan numeric barcodes (range: 1 - 99999) on page 9 & 10 ; it will be stored as <Quantity>.
6. Scan [SET QUANTITY] again.
7. Scan [SAVE DATA] below.
8. Repeat Step 3 - 7 to until your task is completed.
9. Retrieve stored data (BARCODE.txt), as instructed on page 24.

. R015\$

**SET QUANTITY**

. R016\$

**SAVE DATA**

. R018\$

**DISABLE QUANTITY INPUT**

When quantity input is disabled, the operation procedure under batch mode will be:

1. Scan [BATCH MODE] (page 23)
2. Set DATA FORMAT (page 25) as appropriate. For example, your data format is <Barcode Data>, <Quantity>.
3. Scan a desired barcode; it will be stored as <Barcode Data>
4. Repeat Step 3 until your task is completed.
5. Retrieve stored data (BARCODE.txt), as instructed on page 24.

TEST BARCODES

Code 39



CODE-39 TEST

Interleaved 2 of 5



9876543210

Code 128



12345678

EAN

