







## Package Contents

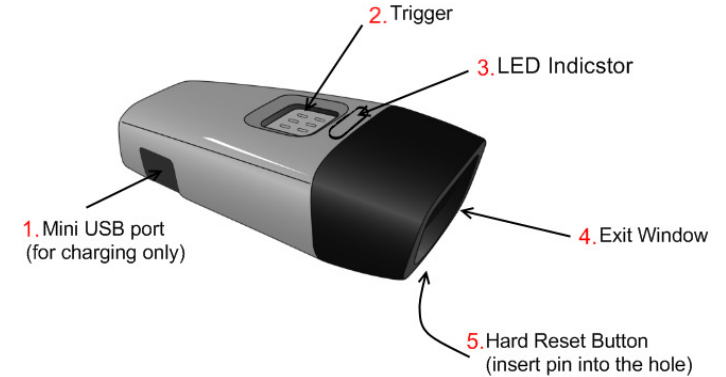
Please make sure the following contents are in the MS912 carton. If something is missing or damaged, please contact your Unitech representative.

		
MS912 scanner	Resource CD	Quick Guide
		
USB Charging Cable	Hand Strap	Quick Connection Card

Note:

1. The scanner's default power off (idle mode) time is 3 minutes.
2. Please charge scanner for at least 2 hours prior to initial use.

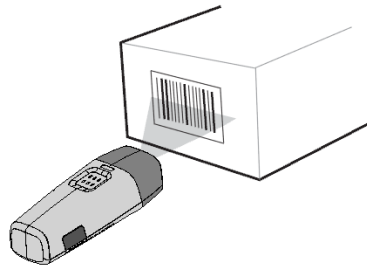
## Scanner Detail



## Specifications

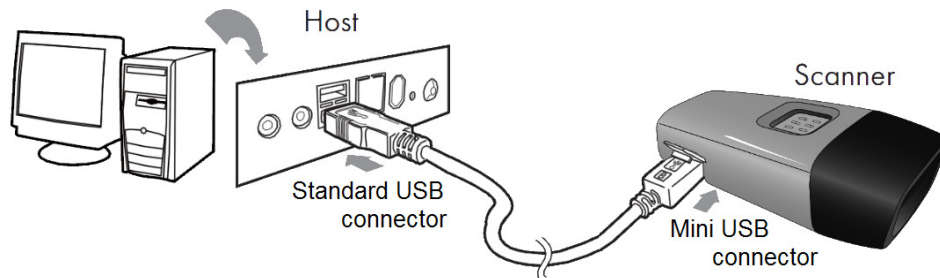
<b>Light source</b>	625nm visible red LED
<b>Scan rate</b>	240 scans/sec
<b>Sensor</b>	Linear CMOS sensor
<b>Resolution</b>	5mil/ 0.127mm
<b>PCS</b>	30%
<b>Housing</b>	Plastic (ABS)
<b>Profile</b>	SPP, HID
<b>Working Hours</b>	8 hours (1 scan/ 5 sec)
<b>Charge Time</b>	2 hours (fully charged)
<b>Coverage</b>	10M/33ft. (line of sight)
<b>Operating Temp</b>	0 to 50 °C (32 °F to 122 °F)
<b>Symbologies</b>	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 up the rubber cover to expose the mini USB port on the scanner.
2. Insert the mini USB connector into the port on the scanner and the standard USB connector of the USB cable into a USB port on the host PC.

## BEEPER INDICATION

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

## LED INDICATION

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

## GETTING CONNECTED

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There are two modes of wireless communication:

.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 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\$



**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\$



**Disconnect**

## PINCODE SETUP

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### 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

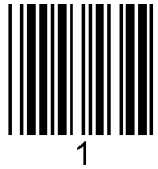
**Pincode Stop**

.E033\$



## **NUMERIC BARCODES**

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1

**1**



2

**2**



3

**3**



4

**4**



5

**5**



6

**6**



7

**7**



8

**8**



9

**9**



0

**0**

## **SMARTPHONE CONNECTION - iOS (Apple)**

### **Getting Connected**

Please pair with the scanner via [BT mode - HID].

### **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**].

### **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].

\*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].
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**

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The timeout is before automatic power-off to save power.

.B017\$



1 MIN

.B018\$



3 MIN

.B019\$



5 MIN

.B020\$



10 MIN

.B021\$



DISABLE  
(NO POWER-OFF)

## **LINK QUALITY**

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ENABLE

.E035\$



DISABLE

.E036\$



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

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.A001\$



DEFAULT

.P023\$



RESET

.A007\$



CHECK VERSION

## BEEPER

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.F012\$



BEEP OFF

.F018\$



**BEEP ON**

## READING MODE

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**TRIGGER**

.F002\$



TOGGLE

.F003\$



FLASH

.F001\$



CONTINUOUS

.F005\$



CONTINUOUS AUTO  
OFF

.F006\$



**KEYBOARD LAYOUT**

.C010\$



**ENGLISH**  
**(USA)**

.C018\$



ENGLISH  
(UK)

.C012\$



FRENCH

.C011\$



GERMAN

.C014\$



ITALIAN

.C013\$



SPANISH

JAPAN  
(106 key)

CANADIAN  
(FRENCH)

CANADIAN  
(TRADITIONAL)

NORWEGIAN

SWEDISH

PORTUGUESE

.C009\$



.C025\$



.C034\$



.C029\$



.C026\$



.C031\$





**KEYBOARD LAYOUT**

. C017\$



CZECH  
(QWERTY)

. C022\$



CZECH  
(QWERTZ)

. C021\$



HUNGARIAN  
(QWERTZ)

. C024\$



HUNGARIAN  
(101 KEY)

. C016\$



SWISS  
(GERMAN)

. C023\$



SWISS  
(FRENCH)

BELGIAN  
(AZERTY)

DUTCH

DANISH

SLOVAK

BRAZILIAN  
(PORTUGUESE)

ALT CODE

. C030\$



. C028\$



. C027\$



. C032\$



. C033\$



. C015\$



**ENABLE SYMBOLOGIES**

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. 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\$



IATA

. N017\$



TELEPEN

. L014\$



GS1 DATABAR

. N032\$



GS1 DATABAR  
LIMITED

. N010\$



GS1 DATABAR  
EXPANDED

. N026\$



## TERMINATOR

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. D012\$



. D011\$



. D013\$



. D010\$



. D015\$



. D014\$



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.

. A007\$



**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

**OUTPUT DATA**

. R003\$



**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

. 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**]

. R011\$



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

. 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



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

Code	Item	Code	Item
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



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

Code	Item	Code	Item
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 [**Time Format**]