

# 掌上型無線 CCD 掃描器

- MS912+ -



使用手冊

Version 1.0

## 前言

## 手冊介紹

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感謝您選購 unitech 產品。

本手冊將介紹如何設定、操作及使用此項產品，包含基本設定介紹。

未經製造商書面許可，不得以任何形式、利用電子或機械手段(例如影印、錄音或資訊儲存及擷取系統)重製或使用本刊物的任何部分。本手冊的內容如有變更，恕不另行通知。

## Regulatory Compliance Statements

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### FCC Warning Statements

This device 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 with radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference with 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 circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

1. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
2. This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. To maintain compliance with FCC RF exposure requirements, avoid direct contact to the transmitting antenna during transmitting.
3. Any changes or modifications (including the antennas) made to this device that are not expressly approved by the manufacturer may void the user's authority to operate the equipment.

Operation on the 5.15 - 5.25GHz frequency band is restricted to indoor use only. The FCC requires indoor use for the 5.15-5.25GHz band to reduce the potential for harmful interference to co-channel Mobile Satellite Systems. Therefore, it will only transmit on the 5.25-5.35 GHz, 5.47-5.725 GHz and 5.725–5.850 GHz band when associated with an access point (AP).

## **FCC Label 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.

## **RF Radiation Exposure Statement**

For body contact during operation, this device has been tested and meets FCC RF exposure guidelines when used with an accessory that contains no metal and that positions the handset a minimum of 1.5 cm from the body. Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

## **Canadian Compliance Statement**

This Class B Digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Cet appareil numérique de la classe B respecte les exigences du Règlement sur le matériel brouilleur du Canada.

## European Conformity Statement

unitech Electronics co., Ltd herewith declares that the unitech product is in compliance with the essential requirements and all other provisions of the R&TTE 1999/5/EC directive, the EMC 2004/108/EC directive and the Low Voltage 2006/95/EC directive.

The declaration of conformity is available for download at :

<https://portal.unitech.eu/public/Safetyregulatorystatement>

## RoHS Statement



This device conforms to RoHS (Restriction of Hazardous Substances) European Union regulations that set maximum concentration limits on hazardous materials used in electrical and electronic equipment.

## Waste electrical and electronic equipment (WEEE)



unitech has set up a policy and process to meet the EU directive 2002/96/EC and update 2003/108/EC concerning electronic waste disposal.

For more detailed information of the electronic waste disposal of the products you have purchased from unitech directly or via unitech's resellers, you shall either contact your local supplier or visit us at :

<https://portal.unitech.eu/public/WEEE>

## Taiwan NCC Warning Statement

### 交通部電信總局低功率電波輻射性電機管理辦法

第十二條：經型式認證合格之低功率射頻電機，非經許可，公司、商號或使用者均不得擅自變更頻率、加大功率或變更原設計之特性及功能。

第十四條：低功率射頻電機之使用不得影響飛航安全及干擾合法通信；經發現有干擾現象時，應立即停用，並改善至無干擾時方得繼續使用。

低功率射頻電機需忍受合法通信或工業、科學及醫療用電波輻射性電機設備之干擾。

#### 注意事項：

1. 使用過度恐傷害視力。
2. 使用30分鐘請休息10分鐘；2歲以下幼兒不看螢幕，2歲以上每天看螢幕不要超過1小時。

## Laser Information

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The unitech product is certified in the U.S. to conform to the requirements of DHHS/CDRH 21CFR Subchapter J and to the requirements of IEC 825-1. Class II and Class 2 products are not considered to be hazardous. The unitech product contains internally a Visible Laser Diode (VLD) whose emissions do not exceed the maximum limits as set forth in the above regulations. The scanner is designed so that there is no human access to harmful laser light during normal operation, user maintenance or prescribed service operations.

The laser safety warning label required by the DHHS/IEC for the unitech product's optional laser scanner module is located on the memory compartment cover, on the back of the unit.

\* Laser information only applies to the products with laser components.

**CAUTION!** Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous laser light. Use of optical instruments with the scanner, including binoculars, microscopes, and magnifying glasses, with will increase eye damage. This does not include eyeglasses worn by the user.

## LED Information

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The unitech product contains LED indicator(s) or LED ring whose luminance is not harmful to human eyes during normal operation, user maintenance or prescribed service operations.

\*LED information only applies to the products with LED components.

## Battery Notice

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1. To guarantee optimal performance, it is recommended that rechargeable batteries be replaced every year, or after 500 charging cycles are completed. It is normal for the battery to balloon or expand after one year or 500 cycles. Although it does not cause damage, it cannot be used again and must be disposed of according to the location's safe battery disposal procedures.
2. If a battery performance decreases more than 20%, the battery is at the end of its life cycle. Stop use and ensure the battery is disposed of properly.
3. The length of time that a battery lasts depends on the battery type and how the device is used. Conserve the battery life by doing the following:
  - Avoid fully uncharging the battery because this places additional strain on it. Several partial uncharges with frequent charges are better than a fully uncharged battery. Charging a partially charged battery does not cause harm to the unit.
  - Keep the battery cool. Avoid hot vehicles. For prolonged storage, keep the battery at a 40% charge level.
  - Do not leave the battery uncharged and unused for an extended period of time, the battery will wear out and the longevity of the battery will be at least half of one with frequent charges.
4. Protect battery life by not over or under charging the battery.
5. Please do not leave battery unused for long time without charging it. Despite unitech's safety precautions, the battery pack may begin to change shape. If so, stop using it immediately. Please check to see if you are using a proper power adapter to charge the battery or contact your service provider for service.
6. If you cannot charge the battery after it has been idle for an extended period of time and it begins to heat up, please do not try to charge it. It may not be functional anymore.
7. Please only use the original battery from unitech. Using a third party battery can damage our products. Please note that when such damage occurs, it is not covered by unitech's warranty policy

**CAUTION!**

- RISK OF EXPLOSION IF BATTERY IS REPLACED INCORRECTLY.  
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS..
- 如果更換不正確之電池行事會有爆炸的風險  
請依製造商說明書處理用過之電池
- 如果更換不正確之電池行事會有爆炸的風險  
請依製造商說明書處理用過之電池

## Battery charge notice

It is important to consider temperature when the battery pack is charging. Charging is most efficient at normal room temperature or in a slightly cooler environment. It is essential that batteries are charged within the stated range of 0°C to 40°C. Charging batteries outside of the specified range could damage the batteries and shorten their life cycle.

**CAUTION!** Do not charge batteries at a temperature lower than 0°C. This will and make the batteries unstable and dangerous. Please use a battery temperature detecting device for a charger to ensure a safe charging temperature range.

## Storage and safety notice

Although charged batteries may be left unused for several months, their capacity may be depleted due to build up of internal resistance. If this happens, they will require recharging prior to use. Batteries may be stored at temperatures between -20°C to 60°C, however they may deplete more rapidly at higher temperatures. It is recommended to store batteries at room temperature.

*\* The message above only applies to the usage of the removable batteries.  
For the products with non-removable batteries / without batteries, please refer to the specification of each product.*

## Product Operation and Storage Notice

The unitech product has applicable operation and storage temperature conditions. Please follow the limitation of suggested temperature conditions to avoid failure, damage or malfunction.

*\*For applicable temperature conditions, please refer to the specification of each product.*



## Adapter Notice

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1. Please do not leave the power adapter in the socket when it is not connected to your unitech product for charging.
2. Please remove the power adapter when the battery is fully recharged.
3. The bundled power adapter that comes with your unitech product is not meant to be used outdoors. An adapter exposed to water or rain, or a very humid environment can cause damage to both the adapter and the product.
4. Please only use the bundled power adapter or same specification of adapter to charge your unitech product. Using the wrong power adapter can damage your unitech product.

*\* The message above only applies to the product connected to the adapter.  
For the products without using the adapters, please refer to the specification of each product.*

## Hearing Damage Warning

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### Zx.3 Warning

The warning shall be placed on the equipment, or on the packaging, or in the instruction manual and shall consist of the following:

- the symbol of Figure 1 with a minimum height of 5 mm; and
- the following wording, or similar :

To prevent possible hearing damage, do not listen at high volume levels for long periods.



Figure 1 – Warning label (IEC 60417-6044)

Alternatively, the entire warning may be given through the equipment display during use, when the user is asked to acknowledge activation of the higher level.

## 全球支援

unitech's professional support team is available to quickly answer questions or assist with technical-related issues. Should an equipment problem occur, please contact the nearest unitech regional service representative.

For complete contact information please visit the Web sites listed below:

|                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                      |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Taipei, Taiwan – Headquarters</b>                                                                                                                                                                                                                                                                                                  | <b>Europe</b>                                                                                                                                                                                                                        |
| <b>Tel:</b> +886-2-89121122<br><b>E-mail:</b> info@hq.ute.com<br><b>Address:</b> 5F, No. 136, Lane 235, Baoqiao Road, Xindian District, New Taipei City 231, Taiwan (R.O.C.)<br><b>Website:</b> <a href="http://www.ute.com">http://www.ute.com</a>                                                                                   | <b>Tel:</b> +31-13-4609292<br><b>E-mail:</b> info@eu.ute.com<br><b>Address:</b> Kapitein Hatterasstraat 19, 5015 BB, Tilburg, the Netherlands<br><b>Website:</b> <a href="http://eu.ute.com">http://eu.ute.com</a>                   |
| <b>China</b>                                                                                                                                                                                                                                                                                                                          | <b>Japan</b>                                                                                                                                                                                                                         |
| <b>Tel:</b> +86-59-2310-9966<br><b>E-mail:</b> info@cn.ute.com<br><b>Address:</b> Room401C, 4F, RIHUA International Mansion, Xinfeng 3rd Road, Huoju Hi-tech District, Xiamen, Fujian, China<br><b>Website:</b> <a href="http://cn.ute.com">http://cn.ute.com</a>                                                                     | <b>Tel:</b> +81-3-35232766<br><b>E-mail:</b> info@jp.ute.com<br><b>Address:</b> Kayabacho Nagaoka Building 8F.,1-5-19 Shinkawa, Chuo-Ku, Tokyo, 104-0033, Japan<br><b>Website:</b> <a href="http://jp.ute.com">http://jp.ute.com</a> |
| <b>Asia &amp; Pacific / Middle East</b>                                                                                                                                                                                                                                                                                               | <b>Latin America</b>                                                                                                                                                                                                                 |
| <b>Tel:</b> +886-2-27911556<br><b>E-mail:</b> info@apac.ute.com<br>info@india.ute.com<br>info@mideast.ute.com<br><b>Address:</b> 4F., No. 236, ShinHu 2nd Rd., NeiHu Chiu, 114, Taipei, Taiwan<br><b>Website:</b> <a href="http://apac.ute.com">http://apac.ute.com</a> / <a href="http://mideast.ute.com">http://mideast.ute.com</a> | <b>Tel:</b> +52-55-5171-0528<br><b>E-mail:</b> info@latin.ute.com<br><b>Address:</b> 17171 Park Row, Suite 210 Houston, TX 77084USA (Rep.)<br><b>Website:</b> <a href="http://latin.ute.com">http://latin.ute.com</a>                |
| <b>North America</b>                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                      |
| <b>Tel:</b> +1-714-8916400<br><b>E-mail:</b> info@us.ute.com / info@can.ute.com<br><b>Address:</b> 6182 Katella Ave, Cypress, CA 90630, USA<br><b>Website:</b> <a href="http://us.ute.com">http://us.ute.com</a>                                                                                                                      |                                                                                                                                                                                                                                      |

# Warranty Policy

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The items covered under the unitech Limited Warranty are free from defects during normal use.

The warranty period is varied from each country. Please consult with your supplier or unitech local office for actual length of warranty period to your purchased product.

Warranty becomes void if equipment is modified, improperly installed or used, damaged by accident or neglect, or if any parts are improperly installed or replaced by the user.

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## 第一章 - 總覽

### 1.1 產品配備清單

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請確認 MS912+包裝箱中各項配備是否齊全。

若發現任何組件遺失或損壞，請立即與 unitech 當地經銷商聯繫。

#### 基本配件清單：

- MS912+ 掃描器
- 快速指南
- Regulatory Compliance Statements
- USB 充電電源線
- 手帶

**注意：** 若想掃描條碼，請確認瞄準光束穿過條碼的每一條碼條及空隙。



## 1.2 產品介紹

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## 1.3 規格

| 效能/光學                   |                                                                                                                                                                                                                                                                          |
|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 影像感應器                   | 線性 CMOS 感應器                                                                                                                                                                                                                                                              |
| 光源                      | 625 nm 可見紅色 LED                                                                                                                                                                                                                                                          |
| 最大解析度                   | 4 密耳(0.1mm)                                                                                                                                                                                                                                                              |
| 掃描率                     | 650 次掃描/秒                                                                                                                                                                                                                                                                |
| 列印對比                    | 最低 30%                                                                                                                                                                                                                                                                   |
| 掃描距離                    |                                                                                                                                                                                                                                                                          |
| 讀取距離<br>(DOF PCS = 90%) | Code 39, 4mil: 40mm (近) / 65mm (遠)<br>Code 39, 5mil: 35mm (近) / 90mm (遠)<br>Code 39, 10mil: 35mm (近) / 195mm (遠)<br>Code 39, 15mil: 50mm (近) / 280mm (遠)<br>UPC/EAN, 13mil: 35mm (近) / 230mm (遠)                                                                         |
| 功能                      |                                                                                                                                                                                                                                                                          |
| 碼制(Symbolologies)       | UPC-A/UPC-E, EAN-8/EAN-13, Industrial 2 of 5, Codabar, Matrix 2 of 5, Code 11, Code93, Code 32, Code 128, Standard Code 39, Full ASCII Code 39, Interleaved 2 of 5, ChinaPostal Code, MSI Plessy Code, UK PlessyCode, EAN/UCC 128, Telepen Code, IATA Code, GS1 Databar. |
| 組態方法                    | 組態條碼                                                                                                                                                                                                                                                                     |
| 電器規格                    |                                                                                                                                                                                                                                                                          |
| 操作電壓                    | 3.7VDC $\pm$ 5%                                                                                                                                                                                                                                                          |
| 電池類型                    | 鋰電池                                                                                                                                                                                                                                                                      |
| 電流消耗                    | 操作模式： < 145mA<br>待命模式： < 55mA                                                                                                                                                                                                                                            |
| 電池持續時間                  | 6000 次讀取/充電                                                                                                                                                                                                                                                              |



| 環境                                                                                                       |                                            |
|----------------------------------------------------------------------------------------------------------|--------------------------------------------|
| ESD 保護                                                                                                   | 4KV Contact 和 8KV Air 後可運作                 |
| 操作溫度                                                                                                     | 0°C 至 50°C                                 |
| 儲存溫度                                                                                                     | -20°C 至 60°C                               |
| 相對濕度                                                                                                     | 0% to 95% 非冷凝                              |
| 掉落測試                                                                                                     | 1.5M                                       |
| 傳輸通訊                                                                                                     |                                            |
| 範圍                                                                                                       | 10M (無障礙)                                  |
| 支援的主控介面                                                                                                  | Mini USB                                   |
| 介面/設定檔                                                                                                   | SPP,HID                                    |
| 無線類別                                                                                                     | 無線第 2 類                                    |
| 機械規格                                                                                                     |                                            |
| 外殼材料                                                                                                     | ABS + PC                                   |
| 尺寸                                                                                                       | L65 x ABS + PC<br>18mm / 2.6 x 0.9 x 0.7in |
| 重量                                                                                                       | 30.2g / 1.06oz                             |
| 安規認證                                                                                                     |                                            |
| FCC Part15B, FCC Part15C, EN301489-1-17, EN62133, EN60950-1, EN300328, IEC 62471, NCC, TELEC, VCCI, BSMI |                                            |
| 配件                                                                                                       |                                            |
| Mini USB 連接線、手帶                                                                                          |                                            |

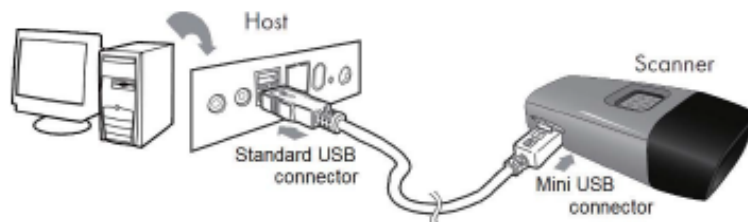
## 1.4 安裝與連線

### 將掃描器連線至主控電腦(配對)

請確定您的電腦或智慧型手機具備一個內建的無線網路介面卡；MS912+支援 HID 及 SPP 無線設定檔。如果您是要連線至 iOS (Apple)的智慧型手機，請依照「透過人機介面裝置(HID)模式連線」的說明執行；如果要連線至 Android 智慧型手機，請依照「透過序列埠設定檔(SPP)模式連線」或「人機介面(HID)模式」的說明執行。

*注意：Android 2.x 裝置「只能」在 SPP 模式下和 MS912+ 搭配使用。SPP 模式及/或 HID 模式並非與 Android 作業系統的每個版本完全相容，而取決於 Android 裝置製造商所定義之 Android 硬體規格。*

## 1.5 電池充電



1. 翻轉開啟掃描器上的Mini USB連接埠。
2. 將Mini USB接頭插入掃描器上的連接埠，然後將USB A接頭插入主控電腦上的USB連接埠。
3. 請將掃描器充電至少2個小時(直到LED指示燈熄滅為止)。

## 1.6 掃描器LED和嗶聲說明

| 掃描器 LED 和嗶聲說明 |             |        |        |                    |                |
|---------------|-------------|--------|--------|--------------------|----------------|
|               |             | 綠色 LED | 紅色 LED | 嗶聲                 | 備註             |
| 掃描器           | 電源關閉或待命     | -      | -      | -                  | 設定電源關閉逾時時間     |
|               | 充電中         | -      | 恆亮     | -                  | -              |
|               | 已中斷連線或可以搜尋  | 閃爍     | -      | -                  | -              |
|               | 正在初始化       | 閃爍     | 閃爍     | 1 次長嗶聲             | -              |
|               | 開啟電源        | -      | -      | 1 次長嗶聲             | -              |
|               | 尚未正確連線的條碼掃描 | 閃爍     | -      | 1 次嗶聲              | -              |
|               | 掃描條碼成功      | 1 次閃爍  | -      | 1 次嗶聲              | -              |
|               | 連線成功        | -      | -      | 2 次嗶聲              | -              |
|               | Pin 碼設定失敗   | -      | 閃爍     | 3 次短嗶聲             | 掃描[Pin 碼停止]並重試 |
|               | 低電量         | -      | 閃爍     | 5 次嗶聲              | -              |
|               | 超出範圍        | 1 次閃爍  | -      | 4 次嗶聲<br>(高-低-高-低) | 移動靠近主控裝置。      |

## 第二章 - 安裝設定

### 2.1 BT HID

1. 開啟您主控裝置(個人電腦、智慧型手機或平板)上的無線裝置。
2. 按下 MS912+掃描器的掃描鍵 1 秒鐘以啟動。
3. 掃描[Disconnect]條碼。

Disconnect



4. 按下 MS912+掃描器的掃描鍵 1 秒鐘以啟動。
5. 掃描下方的[HID]條碼：

HID



6. 掃描器會發出幾聲短促的嗶聲，然後停止。進行配對程序時，綠色的 LED 燈會持續閃爍。
7. 在您的主控裝置上，位於可以看見藍牙設定和管理連線的設定區段中。
  - a. 您將在藍牙裝置看見列為[Wireless Scanner]的 MS912+。
  - b. 您將在[Pair with this device]看見一則訊息。
  - c. 在您的主機選擇此裝置，然後開始進行配對。
8. 您的主控裝置會要求您輸入一組 Pin 碼。
  - a. 請使用您主控裝置的鍵盤輸入這組 Pin 碼。
  - b. 這組 Pin 碼可以是任何數字的組合。
  - c. 建議您使用 4 位數字。
9. 當您在主控裝置中輸入 Pin 碼後，必須在 MS912+中設定 Pin 碼，才能進行配對。
  - a. 請利用 MS912+掃描下方的 Pincode Start 條碼。

Pincode Start



- b. 請參閱附錄 A 然後掃描與您主控裝置 Pin 碼相同的數字。例如：如果您的 Pin 碼為「241657」，請依序掃描[2] - [4] - [1] - [6] - [5] - [7]：
- c. 掃描下方的[Enter]條碼：

Enter



- d. 掃描[Pincode-Stop]條碼：

Pincode-Stop



- 10. 在您的主控裝置中，您將在[Wireless Scanner]看見[連線中...]的訊息。
- 11. 當該訊息變成[已配對且已連線]時，掃描器將發出 2 次嗶聲證實連線成功，接著您可以開始將條碼日期掃描至您的主控裝置。
  - a. 若要執行測試，請開啟 Word 或記事本，或一封新的電子郵件[可讓您輸入資料的任何應用程式]。
  - b. 掃描本手冊中的數字條碼。
  - c. 該數字應該會出現在您主控裝置開啟的應用程式中。
  - d. 如果沒有出現，請掃描下方的[Disconnect]條碼，然後重複上述的步驟 1 到 9。

注意：若要將掃描器從主機中斷連線，或是切換為另一個無線設定檔，請掃

描[Disconnect]條碼：

Disconnect



掃描[Disconnect]條碼後，MS912+ 會發出 3 次嗶聲。

## 2.1.1 透過人機介面裝置(HID)模式連線(非Pin碼)

1. 按下 MS912+掃描器的掃描鍵 1 秒鐘以啟動。
2. 掃描[DISCONNECT]

Disconnect



3. 掃描[BT mode - HID non-pincode]；掃描器會發出 8 次嗶聲。

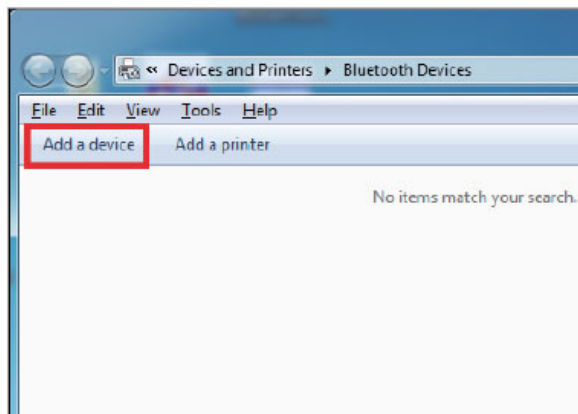
BT mode - HID non-pincode



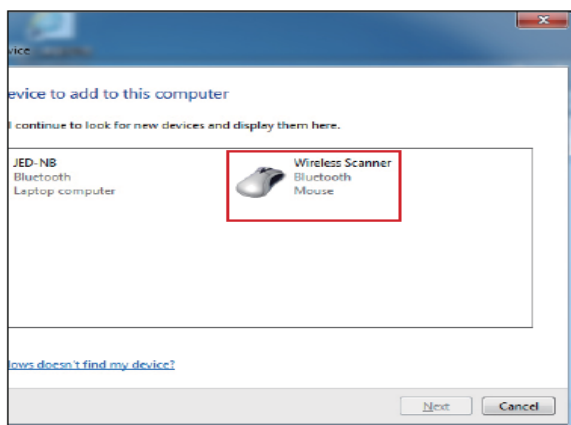
4. 使用您主控電腦的藍牙模組搜尋附近的掃描器。



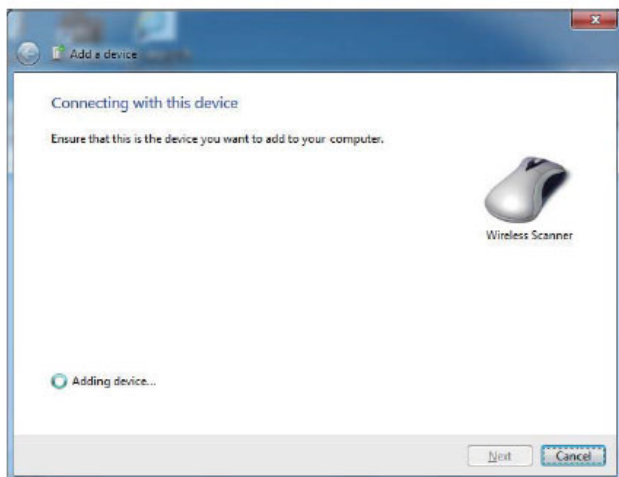
5. 按一下 **Add a device** 來搜尋附近的無線掃描器。



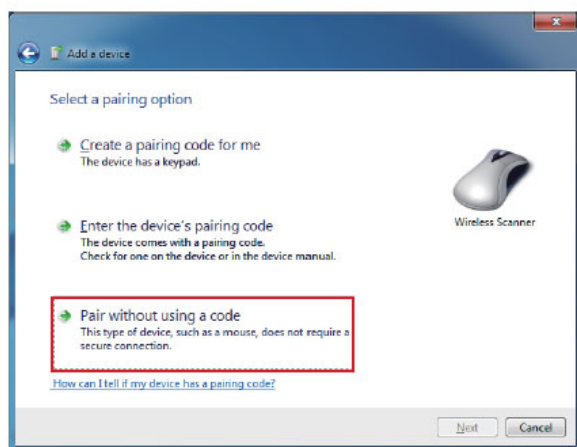
6. 按一下 **Wireless Scanner**，將其新增至電腦。接著請按一下 **Next**。



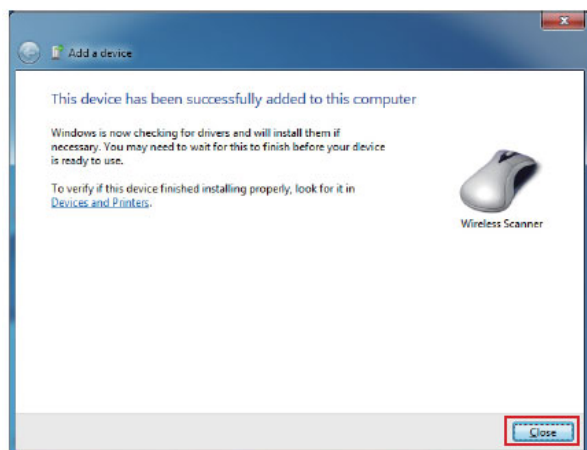
7. 在此步驟中，電腦會連線 Wireless scanner。連線時，請按一下 **Next**。



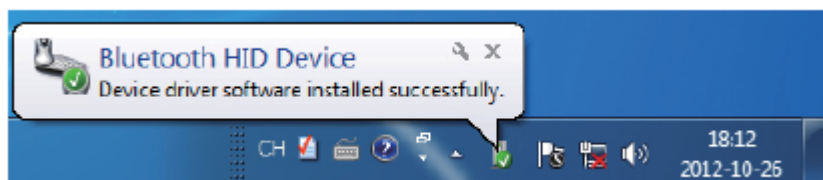
8. 按一下 **Pair without using a code**。接著請按一下 **Next**。



9. 接著請按一下 **Close**。



10. 您將看見一則訊息，顯示裝置驅動程式軟體已成功安裝。



11. 掃描器將發出 2 次嗶聲，證實已連線。

\*注意： 在此模式下，主控裝置會將掃描器識別為滑鼠(指標裝置)。如果您的主控裝置找不到掃描器，請嘗試[Connecting via Human Interface Device (HID) Mode]。



## 2.2 BT SPP

---

1. 開啟您主控裝置(個人電腦、智慧型手機或平板)上的無線裝置。
2. 按下 MS912+掃描器的掃描鍵 1 秒鐘以啟動。
3. 掃描[Disconnect]條碼。

Disconnect



4. 掃描下方的 SPP 條碼:

SPP



5. 掃描器將發出多次嗶聲。
6. 請在您的主控裝置上搜尋 MS912+。從探索到的裝置清單中選擇「Wireless Scanner」，掃描器將會發出 2 次嗶聲。
7. 輸入 Pin 碼(預設為「1234」)。
8. 開啟 COM 連接埠(已正確設定)的序列通訊軟體(請參閱裝置管理員)。
9. 掃描器將發出 2 次嗶聲，且 LED 指示燈將熄滅，證實已成功連線。

## 第三章 一條碼

### 3.1 所有碼製

| 啟動                                                                                  | 取消                                                                                   |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ENABLE ALL CODE                                                                     | DISABLE ALL CDE                                                                      |
|    |    |
| CODE 32                                                                             | CODE 32 *                                                                            |
|    |    |
| CHINA POSTAL CODE *                                                                 | CHINA POSTAL CODE                                                                    |
|    |    |
| UK PLESSEY CODE                                                                     | UK PLESSEY CODE *                                                                    |
|  |  |
| INDUSTRIAL 2 OF 5                                                                   | INDUSTRIAL 2 OF 5 *                                                                  |
|  |  |
| MATRIX 2 OF 5                                                                       | MATRIX 2 OF 5 *                                                                      |
|  |  |
| INTERLEAVED 2 OF 5 *                                                                | INTERLEAVED 2 OF 5                                                                   |
|  |  |
| CODE 128 *                                                                          | CODE 128                                                                             |
|  |  |
| CODABAR *                                                                           | CODABAR                                                                              |
|  |  |
| TEELEPEN                                                                            | TELEPEN *                                                                            |
|  |  |

| 啟動                                                                                  | 取消                                                                                   |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| UPC-A *                                                                             | UPC-A                                                                                |
|    |    |
| UPC-E *                                                                             | UPC-E                                                                                |
|    |    |
| EAN-8 *                                                                             | EAN-8                                                                                |
|    |    |
| EAN-13 *                                                                            | EAN-13                                                                               |
|    |    |
| MSI                                                                                 | MSI *                                                                                |
|  |  |
| CODE 39 *                                                                           | CODE 39                                                                              |
|  |  |
| CODE 11                                                                             | CODE 11 *                                                                            |
|  |  |
| CODE 93                                                                             | CODE 93 *                                                                            |
|  |  |
| EAN-128 *                                                                           | EAN-128                                                                              |
|  |  |
| IATA                                                                                | IATA *                                                                               |
|  |  |

| 啟動                                                                                  | 取消                                                                                   |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| GS1 Databar ENABLE                                                                  | GS1 Databar DISABLE                                                                  |
|    |    |
| GS1 Databar STACKED ENABLE *                                                        | GS1 Databar STACKED DISABLE                                                          |
|    |    |
| GS1 Databar LIMITED ENABLE                                                          | GS1 Databar LIMITED DISABLE *                                                        |
|    |    |
| GS1 Databar EXPANDED ENABLE                                                         | GS1 Databar EXPANDED DISABLE *                                                       |
|    |    |
| GS1 Databar EXPANDED STACKED<br>ENABLE *                                            | GS1 Databar EXPANDED STACKED<br>DISABLE                                              |
|  |  |
| PDF 417 ENABLE                                                                      | PDF 417 DISABLE *                                                                    |
|  |  |

| China postcode (Toshiba code)                                                       |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ENABLE *                                                                            | CDV & SEND CD                                                                        |
|  |  |
| DISABLE                                                                             | CDV & NOT SEND CD                                                                    |
|  |  |
| DISABLE CDV *                                                                       | MIN LENGTH (11)                                                                      |
|  |  |
|                                                                                     | MAX LENGTH (48)                                                                      |
|                                                                                     |  |

## 3.2 MSI / UK Plessey code

| MSI                                                                                 | UK PLESSEY CODE                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ENABLE                                                                              | ENABLE                                                                              |
|    |   |
| DISABLE *                                                                           | DISABLE                                                                             |
|    |   |
| CDV & SEND CD*                                                                      | CDV & SEND CD                                                                       |
|    |   |
| CDV & NOT SEND CD                                                                   | CDV & NOT SEND CD *                                                                 |
|   |  |
| CHECK DIGIT DOUBLE MOD 10                                                           |                                                                                     |
|  |                                                                                     |
| CHECK DIGIT DOUBLE 11 PLUS MOD 10                                                   |                                                                                     |
|  |                                                                                     |
| CHECK DIGIT SINGLE MOD 10*                                                          |                                                                                     |
|  |                                                                                     |
| MIN LENGTH [6]                                                                      |                                                                                     |
|  |                                                                                     |
| MAX LENGTH [48]                                                                     |                                                                                     |
|  |                                                                                     |

## 3.3 Code93 / Telepen / IATA

| CODE 93                                                                           | TELEPEN                                                                           | IATA                                                                                  |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| ENABLE                                                                            | ENABLE TELEPEN                                                                    | ENABLE                                                                                |
|  |  |    |
| DISABLE *                                                                         | DISABLE TELEPEN*                                                                  | DISABLE *                                                                             |
|  |  |    |
| MIN LENGTH [6]                                                                    | TELEPEN ASCII                                                                     | DESABLE CDV *                                                                         |
|  |  |    |
| MAX LENGTH [48]                                                                   | TELEPEN NUMBER                                                                    | CDV & SEND CD                                                                         |
|  |  |    |
|                                                                                   |                                                                                   | CDV & NOT SEND CDV                                                                    |
|                                                                                   |                                                                                   |  |
|                                                                                   |                                                                                   | MIN LENGTH [6]                                                                        |
|                                                                                   |                                                                                   |  |
|                                                                                   |                                                                                   | MAX LENGTH [48]                                                                       |
|                                                                                   |                                                                                   |  |

## 3.4 Interleaved 2 of 5 / Code 11

| INTERLEAVED 2 OF 5                                                                  | CODE 11                                                                              |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ENABLE*                                                                             | ENABLE                                                                               |
|    |    |
| DISABLE                                                                             | DISABLE*                                                                             |
|    |    |
| DISABLE CDV*                                                                        | DISABLE CDV *                                                                        |
|    |    |
| CDV & SEND CD                                                                       | CDV & SEND CD                                                                        |
|   |   |
| CDV & NOT SEND CDV                                                                  | CDV & SEND CDV (1DIGIT)                                                              |
|  |  |
| First digit suppressed                                                              | CDV & SEND CDV (2DIGIT)                                                              |
|  |  |
| Last digit suppressed                                                               | CDV & NOT SEND CD                                                                    |
|  |  |
| NO suppressed *                                                                     | MIN LENGTH [6]                                                                       |
|  |  |
| MIN LENGTH [6]                                                                      | MAX LENGTH [32]                                                                      |
|  |  |
| MAX LENGTH [48]                                                                     |                                                                                      |
|  |                                                                                      |

## 3.5 Industrial 2 of 5 / Matrix 2 of 5

| INTERLEAVED 2 OF 5                                                                  | CODE 11                                                                              |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ENABLE                                                                              | ENABLE                                                                               |
|    |    |
| DISABLE*                                                                            | DISABLE*                                                                             |
|    |    |
| DISABLE CDV*                                                                        | DISABLE CDV*                                                                         |
|    |    |
| CDV & SEND CD                                                                       | CDV & SEND CD                                                                        |
|   |   |
| CDV & NOT SEND CDV                                                                  | CDV & NOT SEND CDV                                                                   |
|  |  |
| MIN LENGTH [6]                                                                      | MIN LENGTH [6]                                                                       |
|  |  |
| MAX LENGTH [48]                                                                     | MAX LENGTH [48]                                                                      |
|  |  |



## 3.6 Codabar

| CODEBAR                                                                             | START / STOP                                                                                                                                                                                  | CLSI FORMAT                                                                                                                                                            |
|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ENABLE *                                                                            | ST/SP: abcd/abcd                                                                                                                                                                              | CLSI- Enable library space insertion.<br>If you enable the CLSI format, this option inserts spaces in position 2, 7, 13 of the data string for use in library systems. |
|    |                                                                                                              |                                                                                                                                                                        |
| DISABLE                                                                             | ST/SP: ABCD/ABCD *                                                                                                                                                                            | CLSI FORMAT ON                                                                                                                                                         |
|    |                                                                                                              |                                                                                     |
| DESABLE CDV*                                                                        | ST/SP:ABCD/TN*E                                                                                                                                                                               | CLSI FORMAT OFF                                                                                                                                                        |
|    |                                                                                                              |                                                                                     |
| CDV & SEND CD                                                                       | ST/SP: abcd/tn*e                                                                                                                                                                              |                                                                                                                                                                        |
|   |                                                                                                             |                                                                                                                                                                        |
| CDV & NOT SEND CD                                                                   | SEND START / STOP *                                                                                                                                                                           |                                                                                                                                                                        |
|  |                                                                                                            |                                                                                                                                                                        |
| MIN LENGTH [6]                                                                      | Not Send START /STOP                                                                                                                                                                          |                                                                                                                                                                        |
|  |                                                                                                            |                                                                                                                                                                        |
| MAX LENGTH [48]                                                                     | <b>Example of ST ( Start ) / SP ( Stop )</b><br>123456 Not Transmit ST/SP<br>A123456B ST/SP: ABCD/ABCD<br>a123456b ST/SP: abcd/abcd<br>A123456N ST/SP: ABCD/TN*E<br>a123456n ST/SP: abcd/tn*e |                                                                                                                                                                        |
|  |                                                                                                                                                                                               |                                                                                                                                                                        |

## 3.7 ABC Codabar, CX Codabar

| ABC- CODABAR                                                                        | CX CODE- CODABAR                                                                     |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ON                                                                                  | ON                                                                                   |
|    |    |
| OFF*                                                                                | OFF*                                                                                 |
|    |    |
| ◆SET INSERT DATA                                                                    | ◆SET INSERT DATA                                                                     |
|    |    |
| INSERT DATA-ON                                                                      | INSERT DATA-ON                                                                       |
|   |   |
| INSERT DATA-OFF                                                                     | INSERT DATA-OFF                                                                      |
|  |  |

### 3.7.1 CODABAR COUPLING

| CODABAR COUPLING                                                                  |                                                                                                         |                                                                                     |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| ON                                                                                | OFF*                                                                                                    | ◆SET INSERT DATA                                                                    |
|  |                        |  |
| INSERT DATA-ON                                                                    | INSERT DATA-OFF                                                                                         |                                                                                     |
|  |                        |                                                                                     |
| ADJACENT REQUIRED                                                                 |                                                                                                         |                                                                                     |
| ON                                                                                | OFF*                                                                                                    |                                                                                     |
|  |                       |                                                                                     |
| 設定步驟 – SET INSERT DATA                                                            |                                                                                                         |                                                                                     |
| 步驟 1 – 掃描: Scan SET INSERT DATA.                                                  |                                                                                                         |                                                                                     |
| 步驟 2 – 掃描任一 FULL ASCII Table.請參考附錄 B                                              |                                                                                                         |                                                                                     |
| 步驟 3 – 掃描 SET INSERT DATA.                                                        |                                                                                                         |                                                                                     |
| <b>RESET</b>                                                                      | P023\$               |                                                                                     |
| 注意                                                                                | 1. 如果掃描器發出 3 次嗶聲，其為設定更新未完成的警示。<br>2. 如果您在嘗試更新掃描器設定時發生錯誤，例如不小心掃描到錯誤的條碼，或是忘記操作步驟，請掃描上方的[RESET]條碼重新開始掃描程序。 |                                                                                     |

## 3.8 Code 39 (Full ASCII/Standard) / Code 32

| STANDARD CODE 39 & FULL ASCII 39                                                    |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ENABLE *                                                                            | DISABLE                                                                              |
|    |    |
| FULL ASCII CODE39 ENABLE *                                                          | FULL ASCII CODE39 DISABLE                                                            |
|    |    |
| START / STOP –SEND                                                                  | DESABLE CDV *                                                                        |
|    |    |
| CDV & SEND CD                                                                       | CDV & NOT SEND CD                                                                    |
|   |   |
| MIN LENGTH [1]                                                                      | MAX LENGTH [48]                                                                      |
|  |  |
| START / STOP NOT SEND *                                                             |                                                                                      |
|  |                                                                                      |
|                                                                                     |                                                                                      |
| CODE 32                                                                             |                                                                                      |
| ENABLE                                                                              | DISABLE *                                                                            |
|  |  |
| LEADING SEND *                                                                      | LEADING NOT SEND                                                                     |
|  |  |
| TAILING SEND *                                                                      | TAILING NOT SEND                                                                     |
|  |  |

## 3.9 UPC-E

| UPC-E               |                      |
|---------------------|----------------------|
| ENABLE*             | DISABLE              |
|                     |                      |
| LEAD DIGIT SEND*    | LEAD DIGIT NO SEND   |
|                     |                      |
| CHECK DIGIT SEND*   | CHECK DIGIT NO SEND  |
|                     |                      |
| ADD ON SUPPLEMENT   |                      |
| +5 ON               | +5 OFF*              |
|                     |                      |
| +2 ON               | +2 OFF*              |
|                     |                      |
| ADD A SPACE ON      | ADD A SPACE OFF*     |
|                     |                      |
| ADDENDA REQUIRED ON | ADDENDA REQUIRED OFF |
|                     |                      |

## 3.10 UPC-E(0)&(1) / UPC-E EXPAND

| UPC-E0                                                                            |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| E [0] OFF                                                                         | E (0) ON *                                                                         |
|  |  |
| E [1] ON                                                                          | E (1) OFF *                                                                        |
|  |  |
| UPC-E EXPAND TO UPC-A                                                             |                                                                                    |
| ENABLE                                                                            | DISABLE *                                                                          |
|  |  |

## 3.11 UPC-A

| UPC-A                                                                               |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ENABLE *                                                                            | DISABLE                                                                              |
|    |    |
| LEAD DIGIT SEND *                                                                   | LEAD DIGIT NO SEND                                                                   |
|    |    |
| CHECK DIGIT SEND *                                                                  | LEAD DIGIT NO SEND                                                                   |
|    |    |
| UPC-A EXPAND TO EAN-13                                                              |                                                                                      |
| ENABLE                                                                              | DISABLE *                                                                            |
|   |   |
| ADD ON SUPPLEMENT                                                                   |                                                                                      |
| +5 ON                                                                               | +5 OFF *                                                                             |
|  |  |
| +2 ON                                                                               | +2 OFF *                                                                             |
|  |  |
| ADD A SPACE ON                                                                      | ADD A SPACE OFF *                                                                    |
|  |  |
| ADDENDA REQUIRED ON                                                                 | ADDENDA REQUIRED OFF                                                                 |
|  |  |

## 3.12 EAN-8

| EAN-8                                                                               |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ENABLE*                                                                             | DISABLE                                                                              |
|    |    |
| LEAD DIGIT SEND*                                                                    | LEAD DIGIT NO SEND                                                                   |
|    |    |
| CHECK DIGIT SEND*                                                                   | LEAD DIGIT NO SEND                                                                   |
|    |    |
| ADD ON SUPPLEMENT                                                                   |                                                                                      |
| +5 ON                                                                               | +5 OFF*                                                                              |
|   |   |
| +2 ON                                                                               | +2 OFF*                                                                              |
|  |  |
| ADD A SPACE ON                                                                      | ADD A SPACE OFF*                                                                     |
|  |  |
| ADDENDA REQUIRED ON                                                                 | ADDENDA REQUIRED OFF                                                                 |
|  |  |
|                                                                                     |                                                                                      |



## 3.13 EAN-13 / ISSN / ISBN / ISMN

| EAN-13                                                                              |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ENABLE*                                                                             | DISABLE                                                                              |
|    |    |
| LEAD DIGIT SEND*                                                                    | LEAD DIGIT NO SEND                                                                   |
|    |    |
| CHECK DIGIT SEND*                                                                   | CHECK DIGIT NO SEND                                                                  |
|    |    |
| ADD ON SUPPLEMENT                                                                   |                                                                                      |
| +5 ON                                                                               | +5 OFF*                                                                              |
|   |   |
| +2 ON                                                                               | +2 OFF*                                                                              |
|  |  |
| ADD A SPACE ON                                                                      | ADD A SPACE OFF*                                                                     |
|  |  |
| ADDENDA REQUIRED ON                                                                 | ADDENDA REQUIRED OFF*                                                                |
|  |  |

| ISBN                                                                              |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| ISBN OFF*                                                                         | ISBN ON                                                                            |
|  |  |
|                                                                                   |                                                                                    |
| ISSN                                                                              |                                                                                    |
| ISSN OFF*                                                                         | ISSN ON                                                                            |
|  |  |
| ISMN                                                                              |                                                                                    |
| ISMN OFF*                                                                         | ISMN ON                                                                            |
|  |  |

## 3.14 EAN & UCC128/Code 128

| EAN / UCC-128                                                                                           |                                                                                      |      |                 |      |                 |
|---------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------|-----------------|------|-----------------|
| ENABLE*                                                                                                 | DISABLE                                                                              |      |                 |      |                 |
|                        |    |      |                 |      |                 |
| CODE ID ENABLE                                                                                          | CODE ID DISABLE*                                                                     |      |                 |      |                 |
|                        |    |      |                 |      |                 |
| FUNC 1 CHAR SEND                                                                                        | FUNC 1 CHAR NOT SEND *                                                               |      |                 |      |                 |
|                        |    |      |                 |      |                 |
| DEFINE EAN 128                                                                                          |                                                                                      |      |                 |      |                 |
|                        |                                                                                      |      |                 |      |                 |
|                                                                                                         |                                                                                      |      |                 |      |                 |
| <b>String format :</b>                                                                                  |                                                                                      |      |                 |      |                 |
| <table><tr><td>JC1</td><td>DATA CHARACTERS</td><td>&lt;GS&gt;</td><td>DATA CHARACTERS</td></tr></table> |                                                                                      | JC1  | DATA CHARACTERS | <GS> | DATA CHARACTERS |
| JC1                                                                                                     | DATA CHARACTERS                                                                      | <GS> | DATA CHARACTERS |      |                 |
|                                                                                                         |                                                                                      |      |                 |      |                 |
| <b>設定步驟:</b>                                                                                            |                                                                                      |      |                 |      |                 |
| 1: 掃描 DEFINE EAN128.                                                                                    |                                                                                      |      |                 |      |                 |
| 2: 掃描 ASCII Code 請參閱附錄 B                                                                                |                                                                                      |      |                 |      |                 |
| 3: 掃描 DEFINE EAN128.                                                                                    |                                                                                      |      |                 |      |                 |
| CODE 128                                                                                                |                                                                                      |      |                 |      |                 |
| ENABLE*                                                                                                 | DISABLE                                                                              |      |                 |      |                 |
|                      |  |      |                 |      |                 |
| MIN LENGTH [5]                                                                                          | MAX LENGTH [48]                                                                      |      |                 |      |                 |
|                      |  |      |                 |      |                 |

## 3.15 DataBar (RSS)

| <b>GS1 DataBar (RSS) – OMNI &amp; STACKED</b>                                       |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| GS1 DataBar ENABLE                                                                  | GS1 DataBar DISABLE*                                                                 |
|    |    |
| GS1 DataBar CHECK DIGIT SEND                                                        | GS1 DataBar CHECK DIGIT NOT SEND*                                                    |
|    |    |
| GS1 DataBar PREFIX SEND                                                             | GS1 DataBar PREFIX NOT SEND*                                                         |
|    |    |
| GS1 DataBar STACKED ENABLE *                                                        | GS1 DataBar STACKED DISABLE                                                          |
|    |    |
| GS1 Databar SET ID                                                                  |                                                                                      |
|  |                                                                                      |
| <b>GS1 DataBar (RSS) – LIMITED</b>                                                  |                                                                                      |
| GS1 DataBar LIMITED ENABLE                                                          | GS1 DataBar LIMITED DISABLE*                                                         |
|  |  |
| GS1 DataBar LIMITED CHECK DIGIT SEND                                                | GS1 DataBar LIMITED CHECK DIGIT NOT SEND*                                            |
|  |  |
| GS1 DataBar LIMITED PREFIX SEND                                                     | GS1 DataBar LIMITED PREFIX NOT SEND *                                                |
|  |  |
| GS1 DataBar LIMITED SET ID                                                          |                                                                                      |
|  |                                                                                      |

| GS1 DataBar (RSS) - EXPANDED                                                      |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| GS1 DataBar EXPANDED ENABLE                                                       | GS1 DataBar EXPANDED DISABLE*                                                      |
|  |  |
| GS1 DataBar EXPANDED STACKED ENABLE*                                              | GS1 DataBar EXPANDED STACKED DISABLE                                               |
|  |  |
| GS1 DataBar EXPANDED MIN LENGTH                                                   | GS1 DataBar EXPANDED MAX LENGTH                                                    |
|  |  |
| GS1 DataBar EXPANDED SET ID                                                       |                                                                                    |
|  |                                                                                    |

## 第四章 - 偏好設定

### 4.1 系統設定

|                                                                                     |
|-------------------------------------------------------------------------------------|
| 恢復原廠設定                                                                              |
| ◆Reset to factory default                                                           |
|    |
| 檢查版本                                                                                |
| ◆Check firmware version                                                             |
|   |
| 重設/ ABORT                                                                           |
| ◆Abort multi-step configuration                                                     |
|  |
| 設定 <b>CODE READ</b>                                                                 |
| SETUP CODE ON *                                                                     |
|  |
| SETUP CODE OFF                                                                      |
|  |
|                                                                                     |

## 4.2 BT Pairing

### 4.2.1 Interface

| CODABAR COUPLING |                                                                                    |
|------------------|------------------------------------------------------------------------------------|
| Batch Mode       |   |
|                  |                                                                                    |
| USB-HID          |   |
|                  |                                                                                    |
| USB-VCP          |  |
|                  |                                                                                    |

| MODE     | Interface  | Auto Mode | Batch Mode | Ez Utility |
|----------|------------|-----------|------------|------------|
| WIRELESS | BT HID     | V         |            |            |
|          | BT SPP     | V         |            |            |
| Tethered | Batch Mode |           | V          |            |
|          | USB HID    |           |            | V          |
|          | USB VCP    |           |            | V          |

## 4.2.2 藍牙連線

### BT mode – HID



1. 按住trigger鍵維持1秒以啟動裝置。
2. 掃描 **[DISCONNECT]**
3. 掃描 **[BT mode-HID]**; 掃描器會發出幾聲嗶聲。
4. 請在您的主控裝置上搜尋MS912+。從探索到的裝置清單中選擇「Wireless Scanner」，(PC裝置, 請選擇 “Create a pairing code for me”)
5. 藍牙應用程式將提示您輸入一組隨機Pin碼。
6. 請參考下一頁的 **PINCODE SETUP**
7. 掃描器將發出2次嗶聲，證實已連線成功。

### BT mode - SPP



1. 按住trigger鍵維持1秒以啟動裝置。
2. 掃描 **[DISCONNECT]**
3. 掃描 **[BT mode -SPP]**; 掃描器會發出幾聲嗶聲。
4. 請在您的主控裝置上搜尋MS912+。從探索到的裝置清單中選擇「Wireless Scanner」(PC裝置, 請選擇“Enter the device’s pairing code”)
5. 輸入Pin碼 ( 預設為「1234」)。
6. 開啟 COM 連接埠(已正確設定)的序列通訊軟體。
7. 掃描器將發出2次嗶聲，證實已連線成功。

### BT mode - HID non-pincode



1. 按住trigger鍵維持1秒以啟動裝置。
2. 掃描 **[DISCONNECT]**
3. 掃描 **[BT mode - HID non-pincode ]**; 掃描器會發出幾聲嗶聲。
4. 請在您的主控裝置上搜尋MS912+。從探索到的裝置清單中選擇「Wireless Scanner」，(PC裝置, 請選擇“Pair without using a code.”)
5. 掃描器將發出2次嗶聲，證實已連線。



注意: 在此模式下，主控裝置會將掃描器識別為滑鼠(指標裝置)。如果您的主控裝置找不到掃描器，請嘗試[BT mode -HID]。

**Disconnect**



### 4.2.2.1 Pincode 設定

|                             |                                                                                      |
|-----------------------------|--------------------------------------------------------------------------------------|
| <b>STEP 1 Pincode Start</b> |    |
| <b>STEP 2 數字表 ( 請參閱附錄A)</b> |                                                                                      |
| <b>STEP 3 Enter</b>         |    |
| <b>STEP 4 Pincode Stop</b>  |  |

## 4.2.2.2 連線至 iOS & Android

### 連線至 - iOS (Apple)

請參照 [BT mode - HID]. 因 Apple 裝置不需要 pincode 來連線，所以請忽略步驟 5&6.

### 觸控式鍵盤

若要切換 iPhone/iPad 觸控式鍵盤，請掃描下方的條碼，或只要按兩下掃描鍵。

| ENABLE iOS HOTKEY                                                                 | DISABLE IOS HOTKEY                                                                 |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |

### 4.2.2.3 設定藍牙裝置ID

若要為無線掃描器自訂您的藍牙裝置(MS912+)名稱，請依照下列步驟執行

|                                                                                                                                                                                                                     |                                                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| 步驟 1 掃描 <b>Default Wireless ID</b> 條碼                                                                                                                                                                               |  |
| 步驟 2 掃描 <b>Set Wireless ID</b> 條碼                                                                                                                                                                                   |  |
| 步驟 3 掃描附錄 B <b>Full ASCII Chart</b> 中的英數字元。                                                                                                                                                                         |                                                                                    |
| 步驟 4 掃描 <b>設定無線 ID</b> 條碼                                                                                                                                                                                           |  |
| 步驟 5 掃描所需的BT模式條碼(SPP或HID)以執行連線。                                                                                                                                                                                     |                                                                                    |
| <p>*注意：</p> <ol style="list-style-type: none"> <li>1. 如果您在自訂您的藍牙裝置名稱「之前」，就已經透過主控裝置連線掃描器，請移除該裝置並建立一個新的連線，以確定裝置名稱已重新整理。若主控裝置為電腦，建議您重新啟動藍牙介面卡，以重新整理裝置名稱。</li> <li>2. 在步驟 3 中，如果輸入超過 7 個字元，掃描器將發出 3 次嗶聲做為警示。</li> </ol> |                                                                                    |

#### 4.2.2.4 Set Pincode

By default, the pincode under SPP profile for eh scanner is "1234" You may customize this pincode with bellows steps:

|                                                                                                                         |                                                                                    |
|-------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| <b>STEP 1 Set SPP Pincode</b>                                                                                           |  |
| <b>STEP 2</b> Scan numeric barcodes (see <a href="#">Appendix A</a> ) Up to 8 numbers can be set as SPP pincode         |                                                                                    |
| <b>STEP 3 Set SPP Pincode</b>                                                                                           |  |
| <b>STEP 4</b> Scan a desired BT mode in <b>BLUETOOTH PROFILE</b> <a href="#">(4.2.2)</a> to Complete the configuration. |                                                                                    |

#### 4.2.2.5 SPP Master Mode

First, please generate one configuration barcode for the target SPP slave device in below methods:

1. The barcode must be Code 39 with no checksum
2. Barcode data format: LTB + Target MAC address

For example, the target SPP slave device's MAC address is 001583522C3B.

#### Please encode:

\*LTB001583522C3B\* in Code39 barcode.

Then, follow below steps to create connection:

|                          |                                                                                      |
|--------------------------|--------------------------------------------------------------------------------------|
| <b>STEP 1 SPP-Master</b> |  |
| <b>STEP 2</b>            |  |

## 4.2.2.6 Remote Control

### SPP REMOTE CONTROL

There are two ways to verify connection status by the host under SPP Profile.

#### Command Response

Host sends: CR,LF,{A,L},CR,LF (8 bytes)  
Scanner replys: O,K,CR,LF (4 bytes)

#### Beeper Response

Host sends: CR,LF,{M,1},CR,LF (8 bytes)  
Scanner replys: a short beep

### SHUT DOWN

This configuration barcode will shut down the scanner immediately but still reserve the pairing record.

|           |                                                                                     |
|-----------|-------------------------------------------------------------------------------------|
| SHUT DOWN |  |
|-----------|-------------------------------------------------------------------------------------|

### DISCONNECTION

|                                      |                                                                                      |
|--------------------------------------|--------------------------------------------------------------------------------------|
| DISCONNECT<br>(CLEAR PAIRING RECORD) |  |
| DISCONNECT<br>(KEEP PAIRING RECORD)  |  |

## 4.3 Output data transmit

### 4.3.1 Auto mode

#### Auto mode

| ENABLE                                                                            | DISABLE                                                                            |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  |  |

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

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

#### BINARY CHECK CHARACTER

| ENABLE                                                                              | 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

## 4.3.2 Batch mode

|            |                                                                                    |
|------------|------------------------------------------------------------------------------------|
| Batch mode |  |
|------------|------------------------------------------------------------------------------------|

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

|                  |                                                                                    |
|------------------|------------------------------------------------------------------------------------|
| DELETE LAST DATA |  |
|------------------|------------------------------------------------------------------------------------|

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

## 4.3.2.1 Batch mode - Data Format /

### Date & Time Setup

#### DATA FORMAT



*注意：[僅支援記憶體版本]*

預設的資料格式為<日期>、<時間>，下方的<條碼資料>為項目及其設定代碼：

| 代碼 | 項    |
|----|------|
| 2  | 日期   |
| 3  | 時間   |
| 4  | 條碼資料 |

例如：

若要將資料格式變更為<條碼資料>、<日期>、<時間>

1. 請掃描[**Date Format**]
2. 掃描第[4], [2], [3]，請參閱附錄 A
3. 請掃描[**Date Format**]

#### FIELD SEPARATOR



預設為逗號(,)。您可以利用使用手冊完整 ASCII 表中的任何英數字元來取代此符號。

例如：將欄位分隔符號變更為分號(;)。

1. 掃描[**Field Separator**]
2. 掃描完整 ASCII 表中的[;]。
3. 掃描[**Field Separator**]



## 日期時間設定

日期設定

**注意：**[僅支援記憶體版本]



例如：若要將日期設定為 2012-08-01 (年-月-日)：

1. 掃描[Set Date]
2. 請參閱附錄 A 的[1]、[2]、[0]、[8]、[0]、[1]。
3. 掃描[Set Date]

時間設定



例如：若要將時間設定為 08:10:30 am (小時：分鐘：秒)

1. 掃描[Set Date]
2. 請參閱附錄 A 的[0]、[8]、[1]、[0]、[3]、[0]。
3. 掃描[Set Date]

\* 若要避免電池電力用盡導致時間與日期重設為原廠預設值，請在使用前至少充電3個小時，以充飽掃描器的電力。

## DATE FORMAT



注意：[僅支援記憶體版本]

預設的日期格式為 DD/MM/YYYY (Code = 09)，以下是可用格式及其設定代碼的完整清單：

| 代碼 | 項目         | 代碼 | 項目         |
|----|------------|----|------------|
| 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      |

例如：

若要將日期格式設定為 MM/DD/YY (Code = 12)

1. 掃描[Date Format]
2. 請參閱附錄 A 的[1]、[2]。
3. 掃描[Date Format]

## TIME FORMAT



注意：[僅支援記憶體版本]

預設的 Time Format 為 HH:MM:SS (Code = 01)，以下是可用的格式及其設定代碼：

| 代碼 | 項目       | 代碼 | 項目    |
|----|----------|----|-------|
| 01 | HH:MM:SS | 02 | HH:MM |

例如：

若要將時間格式設定為 HH:MM (Code = 02)

1. 掃描[Time Format]
2. 請參閱附錄 A 的[0]、[2]。
3. 掃描[Time Format]

## 4.4 BT Config

### 4.4.1 Inter-block and Inter-character Delay

| INTERBLOCK DELAY                                                                             | INTERCHARACTER DELAY                                                                         |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|
| 0mS<br>     | 140uS<br>  |
| 10mS<br>    | 500uS<br>  |
| 50mS<br>   | 1mS<br>   |
| 100mS<br> | 4mS<br>  |
| 200mS<br> | 16mS<br> |
| 500mS<br> |                                                                                              |

## 4.4.2 Caplock Mode / Numeric Key

| INTERBLOCK DELAY                                                                  | INTERCHARACTER DELAY                                                               |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| CAPLOCK ON                                                                        | NUMERIC KEY                                                                        |
|  |  |
| CAPLOCK OFF *                                                                     | ALPHANUMERIC KEY *                                                                 |
|  |  |
| CAPLOCK FREE                                                                      |                                                                                    |
|  |                                                                                    |

## 4.4.3 KEYBOARD LAYOUT

| KEYBOARD LAYOUT                                                                     |                                                                                      |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| ENGLISH (USA) *                                                                     | SWISS (GERMAN)                                                                       |
|    |    |
| ENGLISH (UK)                                                                        | SWISS (FRENCH)                                                                       |
|    |    |
| FRENCH                                                                              | JAPAN (106KEY)                                                                       |
|    |    |
| GERMAN                                                                              | CANDIAN (FRENCH)                                                                     |
|   |   |
| ITALIAN                                                                             | CANADIAN (TRADITIONAL)                                                               |
|  |  |
| SPANISH                                                                             | NORWEGIAN                                                                            |
|  |  |
| CZECH (QWERTY)                                                                      | SWEDISH                                                                              |
|  |  |
| CZECH (QWERTZ)                                                                      | PORTUGUESE                                                                           |
|  |  |
| HUNGARIAN (QWERTZ)                                                                  | BELGIAN (AZERTY)                                                                     |
|  |  |

| KEYBOARD LAYOUT                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| HUNGARIAN (101 KEY)                                                               | DUTCH                                                                              |
|  |  |
| DANISH                                                                            | BRAZILIAN (PORTUGUESE)                                                             |
|  |  |
| SLOVAK                                                                            | ALT CODE                                                                           |
|  |  |

## 4.5 Beep tone, Terminator

| BEEP TONE<br>2.7KHz Buzzer                                                          | TERMINATOR                                                                           |
|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
| BEEP OFF                                                                            | NONE                                                                                 |
|    |    |
| BEEP HIGH                                                                           | LF                                                                                   |
|    |    |
| BEEP HIGH-LOW                                                                       | CR *                                                                                 |
|    |    |
| BEEP MEDIUM *                                                                       | CR+LF *                                                                              |
|   |   |
| BEEP LOW-HIGH                                                                       | TAB                                                                                  |
|  |  |
| BEEP LOW                                                                            | SPACE                                                                                |
|  |  |
|                                                                                     | ESC                                                                                  |
|                                                                                     |  |

## 4.6 掃描模式

---

### 4.6.1 Trigger mode \*



### 4.6.2 Continuous mode



### 4.6.3 Continuous Auto off



### 4.6.4 Flash mode



### 4.6.5 Toggle mode





## 4.7 條碼長度設定,同步碼，後同步碼

| 條碼長度設定                                                                            | 同步碼(字首)和後同步碼(字尾)：                                                                  |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| SEND DATA LENGTH ON                                                               | CLEAR PRE / POSTAMBLE                                                              |
|  |  |
| SEND DATA LENHHTH OFF *                                                           | PREAMBLE (16)                                                                      |
|  |  |
|                                                                                   | POSTAMBLE (16)                                                                     |
|                                                                                   |  |

例如：

將同步碼字串設定為「##」

後同步碼字串設定為「\$\$」

設定程序：

步驟1：掃描：CLEAR PRE/ POSTAMBLE

步驟2：掃描：PREAMBLE.

步驟3：附錄 B 完整 ASCII 表中的「#」兩次。

步驟4：掃描：PREAMBLE.

步驟5：掃描：POSTAMBLE.

步驟6：掃描：附錄 B 完整 ASCII 表中的「\$」兩次。

步驟7：掃描：後同步碼。

### DATA FORMAT:

[Preamble] [Symbology ID] [Barcode Length] [Barcode Data] [Postamble]  
[Terminator]

格式：

{Preamble} {Code ID}{Bar Code }{Postamble}

注意：

1. 同步碼是一個多達 16 個字元的字串，會新增至掃描條碼的開頭。
2. 後同步碼是一個多達 16 個字元的字串，會新增至掃描條碼的結尾。
3. 兩者的預設值：無。

## 4.8 精確度調整

| 精確度調整                                                                                                                                                                 |                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|
|                                                                                     |                                                                                                                              |
| <p>精確度調整可確保解碼輸出更為可靠。啟用此功能並設定 1 到 9 的數字，可以提高解碼輸出的精確度標準。數字越大，精確度越高。</p> <p><b>步驟 1</b> 掃描精確度調整。</p> <p><b>步驟 2</b> 從附錄 A 中掃描一個數元(1 到 9)。</p> <p><b>步驟 3</b> 掃描精確度調整</p> |                                                                                                                              |
| <b>RESET</b>                                                                                                                                                          | <p>P023\$</p>                               |
| 注意：                                                                                                                                                                   | <ol style="list-style-type: none"> <li>1. 掃描器將發出 3 次嗶聲，提醒設定尚未完成。</li> <li>2. 如果設定發生錯誤，或是忘記設定步驟等，請掃描 RESET 即可再次開始。</li> </ol> |

## 4.9 關機設定

### 時間設定 (預設值: 3分鐘)

|                    |                                                                                    |
|--------------------|------------------------------------------------------------------------------------|
| 分鐘設定 (範圍: 00 ~ 60) |  |
| 秒數設定 (範圍: 00 ~ 60) |  |

### 例子: 設定5分鐘30秒關機

1. 掃描 [Set Minute]
2. 掃描 [0] & [5] , 請參閱附錄A
3. 掃描[Set Minute]
4. 掃描[Set Second]
5. 掃描 [3] & [0] , 請參閱附錄A
6. 掃描[Set Second]

### 取消關機 ( 維持待機 )

|                 |                                                                                      |
|-----------------|--------------------------------------------------------------------------------------|
| DISABLE TIMEOUT |  |
|-----------------|--------------------------------------------------------------------------------------|

## 附錄 A – 數字條碼

| FULL ASCII ( Code 39 ) NUMERIC TABLE                                                                                                                                   |                                                                                                                      |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|
| 1                                                                                     | 2                                  |
| 3                                                                                     | 4                                  |
| 5                                                                                     | 6                                  |
| 7                                                                                     | 8                                  |
| 9                                                                                   | 0                                |
| 最小/最大長度 設定程序                                                                                                                                                           |                                                                                                                      |
| <p>步驟 1—掃描：最小/最大長度</p> <p>步驟 2—掃描：附錄中的兩個數元</p> <p>步驟 3—掃描：最小/最大長度</p> <p>請注意，如果已啟用最小長度及/或最大長度，掃描器將只讀取條碼長度符合這些長度參數的條碼。掃描器將不會讀取比指定長度更短或更長的條碼。其預設長度位於每個碼制最小和最大條碼的括號內。</p> |                                                                                                                      |
| <b>RESET</b>                                                                                                                                                           | <p>P023\$</p>                     |
| 備註:                                                                                                                                                                    | <ol style="list-style-type: none"> <li>1. 若聽到嗶聲三聲，則表示設定未完成。</li> <li>2. 若想重新設定，請掃上方條碼 <b>RESET</b> 以重新開始。</li> </ol> |

## 附錄 B – Full ASCII Table (Code39)

### CONTROL CODES

---

NUL



BS



SOH



HT



STX



LF



ETX



VT



EOT



FF



ENQ



CR



ACK



SO



BEL



SI



## CONTROL CODES

---

**DLE**



**EM**



**DC1**



**SUB**



**DC2**



**ESC**



**DC3**



**FS**



**DC4**



**GS**



**NAK**



**RS**



**SYN**



**US**



**ETB**



**SP**



**CAN**



## SYMBOLS

---

+



#



-



^



.



~



\$



&



%



\*



/



-



\



=



!



|



@



## SYMBOLS

---

|   |  |     |  |
|---|--|-----|--|
| { |  | ,   |  |
| } |  | "   |  |
| [ |  | '   |  |
| ] |  | ,   |  |
| ( |  | ;   |  |
| ) |  | :   |  |
| < |  | ?   |  |
| > |  | DEL |  |



## UPPER CASE ALPHABETS

---

A



H



B



I



C



J



D



K



E



L



F



M



G



N



## UPPER CASE ALPHABETS

---

O



U



P



V



Q



W



R



X



S



Y



T



Z



## LOWER CASE ALPHABETS

---

a



h



b



i



c



j



d



k



e



l



f



m



g



n



## LOWER CASE ALPHABETS

---

**o**



**u**



**p**



**v**



**q**



**w**



**r**



**x**



**s**



**y**



**t**



**z**



## FUNCTION KEYS FOR PC-AT

---

**F1**



**F9**



**F2**



**F10**



**F3**



**F11**



**F4**



**F12**



**F5**



**Home**



**F6**



**End**



**F7**



**Enter  
(Numeric  
Key)**



**F8**



**App**



## NAVIGATION KEYS

---

**Cursor Right**



**Back Tab**



**Cursor Left**



**Esc**



**Cursor Up**



**Enter**



**Cursor Down**



**BS**



**Page Up**



**Ins**



**Page Down**



**Del**



**Tab**



## MODIFIER KEYS



Alt (Left) make\*1



Alt (Left) break



Alt (Right) make



Alt (Right) break



Shift (Left) make \*2



Shift (Left) break



Shift (Right) make



Shift (Right) break



Win (Left) make



Win (Left) break



Win (Right) make



Win (Right) break



Ctrl (Left) make \*3



Ctrl (Left) break



Ctrl (Right) make



Ctrl (Right) break

## For UK Keyboard Special Character



⌋



£

注意：

- \*1. 已設定「Alt(left)Make」。請掃描「Alt(left)Break」繼續設定條碼。
- \*2. 已設定「Shift(left)Make」。請掃描「Shift(left)Break」繼續設定條碼。
- \*3. 已設定「Ctrl(left)Make」。請掃描「Ctrl(left)Break」繼續設定條碼。

## 附錄 C – 預設表

| GROUP | PARAMETER                                 | DEFAULT                     |
|-------|-------------------------------------------|-----------------------------|
| 1     | Computer Type                             | PC-AT                       |
|       | Interface                                 | (depends on customer order) |
|       | Setup Code                                | On                          |
| 2     | Reading Mode                              | Trigger                     |
| 2.2   | Bi-color Light Source                     | Green > Red                 |
| 2.3   | Magnetic Switch                           | On                          |
|       | Green LED/ Supplement Light (CCD Scanner) | On                          |
| 2.4   | Deactivation Time (CCD & Laser Scanner)   | 3 Sec                       |
|       | Same Code Interval (Laser Scanner)        | 30 Sec                      |
|       | Idle Mode                                 | Off                         |
|       | Pre-Idle Time                             | 1 Min                       |
| 2.5   | Connection Options                        | BT HID                      |
| 2.6   | Wireless ID                               | Wireless Scanner            |
| 2.7   | Power Off Timeout                         | 3 Min                       |
| 2.8   | SSP (Secure Simple Pairing)               | Disable                     |
|       | iOS Hotkey                                | Disable                     |
| 2.9   | Link Quality                              | Disable                     |
|       | Batch Mode                                | Disable                     |
| 2.10  | SPP Pincode                               | 1234                        |
| 2.11  | Data Format                               | <Barcode Data>              |
|       | Field Separator                           | ,                           |
| 2.12  | Date Format                               | DD/MM/YYYY                  |
|       | Time Format                               | HH:MM:SS                    |



| GROUP | PARAMETER                        | DEFAULT                    |
|-------|----------------------------------|----------------------------|
| 3     | Beep Tone Mode 2.1k              | Beep Medium                |
|       | Beep Tone Mode 2.7k              | Beep Medium                |
|       | Terminator                       | CR(KB, USB); CR+LF (RS232) |
| 4     | Send Data Length                 | Off                        |
|       | Preamble & Postamble             | None                       |
| 5     | Accuracy Adjustment              | 0                          |
| 6     | Label Type Positive/ Negative    | Disable                    |
| 6~9   | Enable & Disable Code ID         | Off                        |
| 10    | Interblock Delay                 | 0ms                        |
|       | Intercharacter Delay             | 140us                      |
| 11    | Keyboard Layout                  | English(USA)               |
|       | Caplock                          | Off                        |
|       | Numeric Key                      | Alphanumeric Key           |
| 12    | Baud Rate                        | 9600                       |
|       | Data Bits & Parity               | 8 Bits None                |
| 13    | Stop Bits                        | 1 stop bit                 |
|       | Handshaking                      | None                       |
|       | ACK/NAK                          | Off                        |
|       | Flow Control Timeout             | 1 Sec                      |
|       | BCC                              | Off                        |
| 14    | Level duration of Mini Width     | 200us                      |
|       | Polarity of Idle Condition       | High                       |
|       | Output of Wand Emulation         | Bar High/ Space Low        |
|       | Wave Form                        | Full ASCII 39              |
|       | Idle Mode                        | Off                        |
|       | Pre-Idle Time                    | 1 Min                      |
| 15    | Enable and Disable Symbolologies |                            |
|       | Code 32                          | Disable                    |
|       | China Postal Code                | Enable                     |
|       | UK Plessey Code                  | Disable                    |
|       | Industrial 2 of 5                | Disable                    |
|       | Matrix 2 of 5                    | Disable                    |
|       | Interleaved 2 of 5               | Enable                     |
|       | Code 128                         | Enable                     |
|       | Codabar                          | Enable                     |
|       | Telepen                          | Disable                    |

| GROUP |   | PARAMETER                    | DEFAULT           |
|-------|---|------------------------------|-------------------|
| 16    |   | UPC-A                        | Enable            |
|       |   | UPC-E                        | Enable            |
|       |   | EAN-8                        | Enable            |
|       |   | EAN-13                       | Enable            |
|       |   | MSI                          | Disable           |
|       |   | Code 39                      | Enable            |
|       |   | Code 11                      | Disable           |
|       |   | Code 93                      | Disable           |
|       |   | EAN-128                      | Enable            |
|       |   | IATA                         | Disable           |
|       |   |                              |                   |
| 17    | 1 | GS1 Databar                  | Disable           |
|       |   | GS1 Databar Stacked          | Enable            |
|       |   | GS1 Databar Limited          | Disable           |
|       |   | GS1 Databar Expanded         | Disable           |
|       |   | GS1 Databar Expanded Stacked | Enable            |
|       |   | PDF417                       | Disable           |
|       | 2 | China Post Code              |                   |
|       |   | Enable/Disable               | Enable            |
|       |   | Check Digits                 | Disable CDV       |
|       |   | Min Length                   | 11 digits         |
|       |   | Max Length                   | 48 digits         |
| 18    | 1 | MSI                          |                   |
|       |   | Enable/Disable               | Disable           |
|       |   | Check Digits                 | CDV & send CD     |
|       |   | Check Digits Mode            | 18 Single MOD 10  |
|       | 2 | <b>UK Plessy</b>             |                   |
|       |   | Enable/Disable               | Disable           |
|       |   | Check Digits                 | CDV & not send CD |

| GROUP |   | PARAMETER                    | DEFAULT       |
|-------|---|------------------------------|---------------|
| 19    | 1 | <b>Code 93</b>               |               |
|       |   | Enable/Disable               | Disable       |
|       |   | Min Length                   | 6 digits      |
|       |   | Max Length                   | 48 digits     |
|       | 2 | <b>Telepen</b>               |               |
|       |   | Enable/Disable               | Disable       |
|       |   | Telepen ASCII/ Number        | Number        |
|       | 3 | <b>IATA</b>                  |               |
|       |   | Enable/Disable               | Disable       |
|       |   | Check Digits                 | Disable CDV   |
|       |   | Min Length                   | 6 digits      |
|       |   | Max Length                   | 48 digits     |
| 20    | 1 | <b>Interleaved 2 of 5</b>    |               |
|       |   | Enable/Disable               | Enable        |
|       |   | Check Digits                 | Disable CDV   |
|       |   | First/ last digit suppressed | No suppressed |
|       |   | Min Length                   | 6 digits      |
|       |   | Max Length                   | 48 digits     |
|       | 2 | <b>Code II</b>               |               |
|       |   | Enable/Disable               | Disable       |
|       |   | Check Digits                 | Disable CDV   |
|       |   | Min Length                   | 6 digits      |
|       |   | Max Length                   | 32 digits     |
| 21    | 1 | <b>Industrial 2 of 5</b>     |               |
|       |   | Enable/Disable               | Disable       |
|       |   | Check Digits                 | Disable CDV   |
|       |   | Min Length                   | 6 digits      |
|       |   | Max Length                   | 48digits      |
|       | 2 | <b>Matrix 2 of 5</b>         |               |
|       |   | Enable/Disable               | Disable       |
|       |   | Check Digits                 | Disable CDV   |
|       |   | Min Length                   | 6 digits      |
|       |   | Max Length                   | 48digits      |

| GROUP |                                                     | PARAMETER                    | DEFAULT     |
|-------|-----------------------------------------------------|------------------------------|-------------|
| 22    | <b>Codabar</b>                                      |                              |             |
|       | Enable/Disable                                      |                              | Disable     |
|       | Check Digits                                        |                              | Disable CDV |
|       | Min Length                                          |                              | 6 digits    |
|       | Max Length                                          |                              | 48digits    |
|       | ST/SP; Abcd/abcd, abcd/tn*c,<br>ABCD/ABCD,ABCD/TN*C |                              | ABCD/ABCD   |
|       | Start(ST)/Stop(SP)                                  |                              | Send        |
|       | CLSI Format                                         |                              | On          |
| 23    | 1                                                   | <b>ABC-Codabar</b>           |             |
|       |                                                     | ON/OFF                       | Off         |
|       |                                                     | Insert Data                  | Off         |
|       | 2                                                   | <b>CX-Codabar</b>            |             |
|       |                                                     | ON/OFF                       | Off         |
|       |                                                     | Insert Data                  | Off         |
| 24    | <b>Codabar-Coupling</b>                             |                              |             |
|       | ON/OFF                                              |                              | Off         |
|       | Insert Data                                         |                              | Off         |
|       | Adjacent Required                                   |                              | Off         |
| 25    | 1                                                   | <b>Code 39</b>               |             |
|       |                                                     | Full ASCII 39 Enable/Disable | Enable      |
|       |                                                     | Check Digits                 | Disable CDV |
|       |                                                     | Start/Stop                   | Not Send    |
|       |                                                     | Min Length                   | 1 digit     |
|       |                                                     | Max Length                   | 48 digits   |
|       | 2                                                   | <b>Code 32</b>               |             |
|       |                                                     | Enable/Disable               | Disable     |
|       |                                                     | Leading                      | send        |
|       |                                                     | Tailing                      | send        |

| GROUP | PARAMETER                   | DEFAULT |
|-------|-----------------------------|---------|
| 26    | <b>UPC-E</b>                |         |
|       | Enable/Disable              | Enable  |
|       | Check Digits                | Send    |
|       | Lead Digits                 | Send    |
|       | Add a space                 | Off     |
|       | Addenda required            | Off     |
|       | +5 On/Off                   | Off     |
|       | +2 On/Off                   | Off     |
| 27    | <b>UPC-E systems number</b> |         |
|       | UPC E(0) On/Off             | On      |
|       | UPC E(1) On/Off             | Off     |
|       | UPC-E expand to UPC-A       | Disable |
|       | UPC-A expand to EAN-13      | Disable |
| 28    | <b>UPC-A</b>                |         |
|       | Enable/Disable              | Enable  |
|       | Check Digits                | Send    |
|       | Lead Digits                 | Send    |
|       | Add a space                 | Off     |
|       | Addenda required            | Off     |
|       | +5 On/Off                   | Off     |
|       | +2 On/Off                   | Off     |
| 29    | <b>EAN-8</b>                |         |
|       | Enable/Disable              | Enable  |
|       | Check Digits                | Send    |
|       | Lead Digits                 | Send    |
|       | Add a space                 | Off     |
|       | Addenda required            | Off     |
|       | +5 On/Off                   | Off     |
|       | +2 On/Off                   | Off     |

| GROUP |                                 | PARAMETER         | DEFAULT     |
|-------|---------------------------------|-------------------|-------------|
| 30    | <b>EAN-13</b>                   |                   |             |
|       | Enable/Disable                  |                   | Enable      |
|       | Check Digits                    |                   | Send        |
|       | Lead Digits                     |                   | Send        |
|       | Add a space                     |                   | Off         |
|       | Addenda required                |                   | Off         |
|       | +5 On/Off                       |                   | Off         |
|       | +2 On/Off                       |                   | Off         |
|       | ISSN On/Off                     |                   | Off         |
|       | ISBN                            |                   | Off         |
| 31    | 1                               | <b>EAN/UCC128</b> |             |
|       |                                 | Enable/Disable    | Enable      |
|       |                                 | Code ID           | Disable     |
|       |                                 | Func 1 Char Send  | Not Send    |
|       | 2                               | <b>Code128</b>    |             |
|       |                                 | Enable/Disable    | Enable      |
|       |                                 | Check Digits      | Disable CDV |
|       |                                 | Min Length        | 5 digits    |
|       |                                 | Max Length        | 48 digits   |
|       | 3                               | <b>PDF417</b>     |             |
|       |                                 | Enable/Disable    | Disable     |
| 32    | GS1 Databar                     |                   | Disable     |
|       | GS1 Databar Check Digit         |                   | Not Send    |
|       | GS1 Databar Prefix              |                   | Not Send    |
|       | GS1 Databar Stacked             |                   | Enable      |
|       | GS1 Databar Limited             |                   | Disable     |
|       | GS1 Databar Limited Check Digit |                   | Not Send    |
|       | GS1 Databar Limited Prefix      |                   | Not Send    |
|       | GS1 Databar Expanded            |                   | Disable     |
|       | GS1 Databar Expanded Stacked    |                   | Enable      |