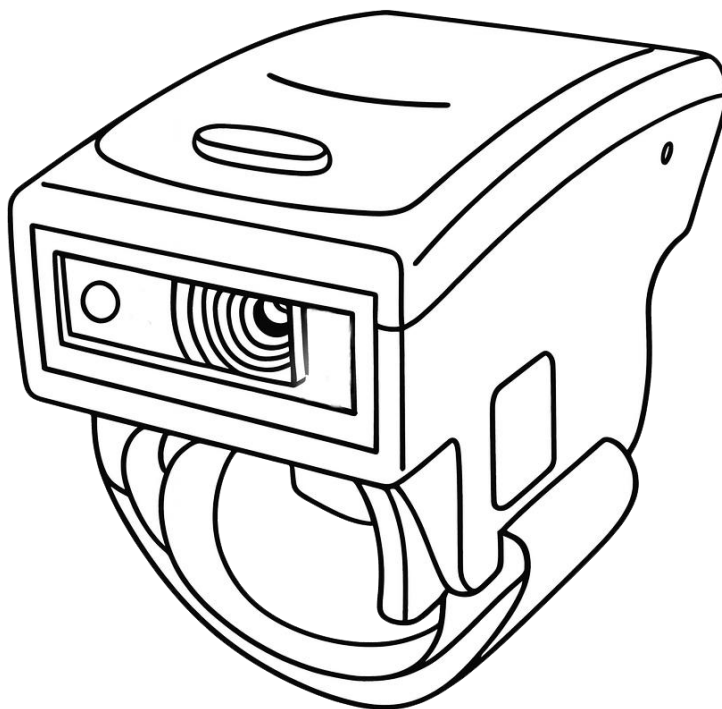


Bluetooth 2D Ring Scanner

- MS626 Plus -



User Manual

Version 1.1

Revision History

Date	Change Description	Version
20260317	Initial Version	V1.0
20260618	<ul style="list-style-type: none">-Delete Beep Mode and Add MAC Address to Bluetooth Device ID Barcode-Update Country Code Page, Power Off Timeout, Default time of Intercharacter Delay & LED Auto-Off Timeout-Add BT BLE Mode-Update the Appendix J	V1.1

Preface

About This Manual

Thank you for purchasing the Unitech product.

This manual explains how to install, operate and maintain our product.

No part of this publication may be reproduced or used in any form, or by any electrical or mechanical means, such as photocopying, recording, or information storage and retrieval systems, without permission in writing from the manufacturer. The material in this manual is subject to change without notice.

Regulatory Compliance Statements

FCC Warning Statement

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.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

1. 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.
2. 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.
3. Operation of transmitters in the 5.925-7.125 GHz band is prohibited for control of or communications with unmanned aircraft systems.

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.
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 1.0 cm from the body.

Use of other accessories may not ensure compliance with FCC RF exposure guidelines.

IC Statements

This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) This device may not cause interference, and
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radioexempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- (1) l'appareil ne doit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

- (i) The device for operation in the band 5150-5250 MHz is only for indoor use to reduce the potential for harmful interference to co-channel mobile satellite systems;
- (i) Les dispositifs fonctionnant dans la bande 5150-5250 MHz sont réservés uniquement pour une utilisation à l'intérieur afin de réduire les risques de brouillage préjudiciable aux systèmes de satellites mobiles utilisant les mêmes canaux.

Devices shall not be used for control of or communications with unmanned aircraft systems

Les dispositifs ne doivent pas être utilisés pour commander des systèmes d'aéronef sans pilote ni pour communiquer avec de tels systèmes.

IC Radiation Exposure Statement

This EUT is compliance with SAR for general population / uncontrolled exposure limits in IC RSS-102 and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528 and IEC 62209. This equipment should be installed and operated with minimum distance 10 mm between the radiator and your body. This device and its antenna(s) must not be co-located or operating in conjunction with any other antenna or transmitter.

Cet appareil est conforme aux limites d'exposition DAS incontrôlée pour la population générale de la norme CNR-102 d'Industrie Canada et a été testé en conformité avec les méthodes de mesure et procédures spécifiées dans IEEE 1528 et IEC 62209. Cet appareil doit être installé et utilisé avec une distance minimale de 10mm entre l'émetteur et votre corps. Cet appareil et sa ou ses antennes ne doivent pas être co-localisés ou fonctionner en conjonction avec tout autre antenne ou transmetteur.

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 RED 2014/53/EU directive.

The declaration of conformity is available for download at:

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

UK Declaration of Conformity (DoC)

Hereby, Unitech Electronics co., Ltd. declares that the radio equipment type Rugged Handheld Computer is in compliance with UK Radio Equipment Regulations 2017(RER 2017 (SI 2017/1206)).

The full text of the UK declaration of conformity is available at the following internet address:

<https://www.ute.com>

UKCA Mark Warning



CE RF Exposure Compliance

For body-worn operation, this device has been tested and meets the ICNIRP guidelines and the European Standard EN 62209-2, for use with dedicated accessories, SAR is measured with this device at a separation of 0.5 cm to the body, while transmitting at the highest certified output power level in all frequency bands of this device. Use of other accessories which contain metals may not ensure compliance with ICNIRP exposure guidelines.

CE Mark Warning



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 2012/19/EU 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

低功率電波輻射性電機管理辦法

取得審驗證明之低功率射頻器材，非經核准，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。低功率射頻器材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。前述合法通信，指依電信管理法規定作業之無線電通信。低功率射頻器材須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。應避免影響附近雷達系統之操作。高增益指向性天線只得應用於固定式點對點系統。

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；未滿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。
3. 減少電磁波影響，請妥適使用。

Note:

Within the 5.25-5.35 GHz band, U-NII devices will be restricted to indoor operations to reduce any potential for harmful interference to co-channel MSS operations.

Devices shall not be used for control of or communications with unmanned aircraft systems.

Laser Information

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 60825-1. 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

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

Performance and Replacement

- For optimal performance, it is recommended to replace rechargeable batteries annually or after 500 charging cycles.
- It's normal for the battery to swell or expand slightly after a year or 500 cycles. This doesn't cause damage but indicates the battery should be replaced and disposed of properly according to local regulations.
- If battery performance drops by more than 20%, it has reached its end of life and should be replaced and disposed of properly.

Battery Life and Conservation

- Battery life depends on the battery type and device usage.
- Avoid fully discharging the battery as this puts stress on it. Several partial charges are better than one full discharge.
- Do NOT expose the battery or device to high temperatures for extended periods, such as in a parked car on a hot day or under direct sunlight. High temperatures can damage the battery. Keep the device within acceptable operating temperatures (refer to the specifications).
- For long-term storage, charge the battery to at least 50% every six months. Leaving the battery uncharged for extended periods will reduce its lifespan.
- If the battery cannot be charged after a long idle period and starts to heat up, do not attempt to charge it. It may be damaged.

Important Cautions

- **Use original batteries only from Unitech.** Using third-party batteries can damage the device and void the warranty.
- **Risk of explosion if the battery is replaced incorrectly.** Dispose of used batteries according to instructions.
- **RISK OF EXPLOSION IF BATTERY IS REPLACED INCORRECTLY.**
DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.
- 電池若未正確更換，可能會爆炸。請用原廠建議之同款或同等級的電池來更換，請依原廠指示處理廢電池。

- 请依制造商说明书处理用过之电池，如果更换不正确之电池行事会有爆炸的风险，请依制造商说明书处理用过之电池

Charging

- Consider temperature when charging. Charging is most efficient at room temperature or slightly cooler.
- Charge batteries within the specified range of 0°C to 40°C (32°F to 104°F). Charging outside this range can damage the battery and shorten its lifespan.
- **Do not charge batteries below 0°C.** This is dangerous and can make the batteries unstable. Use a battery temperature detecting device to ensure safe charging temperatures.

Maintenance and Safety

- Keep all connectors free of contaminants like dust, grease, mud, and water to ensure proper device operation. Neglecting this can cause communication issues, short circuits, or overheating.
- **To clean the battery connectors:**
 - Remove the main battery from the mobile computer.
 - Dip the cotton part of a cotton-tipped applicator in isopropyl alcohol.
 - Gently rub the cotton part of the applicator back and forth across the connectors on both the battery and the device to remove any grease or dirt. Ensure no cotton residue is left on the connectors.
 - Repeat this process at least three times.
 - Use a dry cotton-tipped applicator and repeat steps 3 and 4.
 - Inspect the area for any remaining grease or dirt and repeat the cleaning if needed.
- **To clean the cradle connectors:**
 - Disconnect the DC power cable from the cradle.
 - Dip the cotton part of a cotton-tipped applicator in isopropyl alcohol.
 - Rub the cotton part of the applicator along the pins of the connector, moving it back and forth gently from one side to the other. Do not leave any cotton residue on the connector.
 - Rub all sides of the connector with the applicator.
 - Remove any lint left by the applicator.
 - If there is grease or dirt on other areas of the cradle, use a lint-free cloth and alcohol to clean them.

- Allow the alcohol to air dry for at least 10 to 30 minutes (depending on the ambient temperature and humidity) before powering on the cradle.

CAUTION! *If you clean the battery or cradle connectors with bleach-based chemicals, follow the instructions above to remove any bleach residue from the connectors.*

- If a connector is damaged, have it repaired before using the device to avoid short circuits.
- While charged batteries can be left unused for several months, their capacity may decrease due to internal resistance buildup. They may need recharging before use.
- Store batteries at temperatures between -20°C to 60°C. Higher temperatures can cause faster depletion. Room temperature storage is recommended.
- The above storage information applies only to removable batteries. For devices with non-removable batteries, refer to the product specifications.

Battery Safety Guidelines

- Charge the device in a clean area, away from debris, flammable materials, or chemicals. Take extra care when charging in non-commercial environments.
- Improper battery use can lead to fire, explosion, or other hazards.
- Do not disassemble, open, crush, bend, deform, puncture, or shred the battery.
- Dropping the device can cause the battery to overheat.
- Do not short-circuit the battery or allow metal or conductive objects to touch the battery terminals.
- Do not modify the battery, insert foreign objects, expose it to water or other liquids, or expose it to fire, explosion, or other hazards.
- Do not leave or store the device in hot areas, like parked cars or near heat sources. Do not put the battery in a microwave or dryer.
- Supervise battery usage by children.
- If swallowed, seek medical advice immediately.
- In case of leakage, avoid contact with skin and eyes. If contact occurs, flush the affected area with water for 15 minutes and seek medical advice.
- If you suspect damage to the equipment or battery, contact your service provider for inspection.

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

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

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



Figure 1 – Warning label (IEC 60417-6044)

Worldwide Support

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:

Taipei, Taiwan – Headquarters Tel: +886-2-89121122 E-mail: info@hq.ute.com Address: 5F, No. 136, Lane 235, Baoqiao Road, Xindian District, New Taipei City 231, Taiwan (R.O.C.) Website: http://www.ute.com	Europe & Africa Tel: +31-13-4609292 E-mail: info@eu.ute.com Address: Kapitein Hatterasstraat 19, 5015 BB, Tilburg, the Netherlands Website: http://eu.ute.com
Mainland China Tel: +86-59-2310-9966 E-mail: info@cn.ute.com Address: Room401C, 4F, RIHUA International Mansion, Xinfeng 3rd Road, Huoju Hi-tech District, Xiamen, Fujian, China Website: http://cn.ute.com	Japan Tel: +81-3-62310896 E-mail: info@unitech-japan.co.jp Address: 3F Tosei Building, 18-10, Nihonbashi-Hakozakicho, Chiyodoku, Tokyo 103-0015, Japan Website: https://jp.ute.com
Asia & Pacific / Middle East Tel: +886-2-27911556 E-mail: info@tw.ute.com Address: 4F., No. 236, ShinHu 2nd Rd., NeiHu Chiu, 114, Taipei, Taiwan Website: http://apac.ute.com	Latin America Tel: +52-55 9595 9648 E-mail: info@latin.ute.com Address: Rio Becerra 154 Piso 3 Colonia Napoles, Delegacion Benito Juarez, CP 03810 Mexico Website: http://latin.ute.com
North America Tel: +1-714-8916400 E-mail: info@us.ute.com / info@can.ute.com Address: 6182 Katella Ave, Cypress, CA 90630, USA Website: http://us.ute.com	Please scan QRCode to visit us: 

Warranty Policy

The following 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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Chapter 1 - Overview

1.1 Package

Please make sure the following contents are in the MS626 Plus gift box. If something is missing or damaged, please contact your Unitech representative.

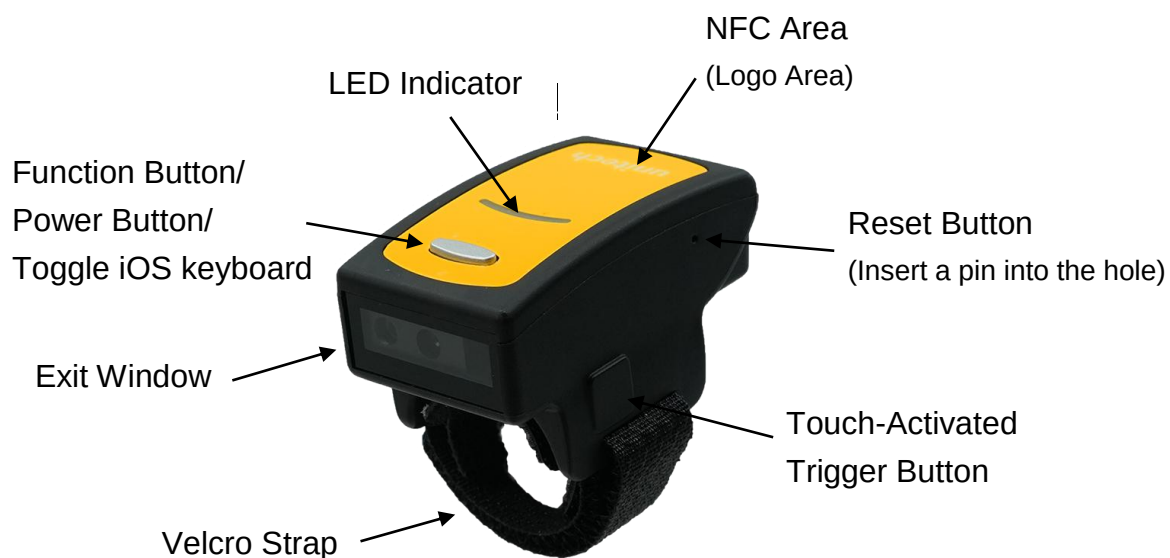
The Package Contents

- MS626 Plus Bluetooth 2D Ring Scanner
- USB-C Charger Cable
- Spare Velcro Strap
- Quick Start Guide
- Hand Tag

Accessories

- USB Type-C Cable
- Velcro Strap

1.2 Product Detail



1.3 Specifications

Optical & Performance	
Sensor	640 x 480 pixels
Aiming Element	Red LED
Illumination	White LED
Ambient Light	100,000 Lux (Sunlight)
Skew Angle	±55°
Pitch Angle Sensor	±55°
Roll Angle	360°
Field of View	Horizontal 43°; Vertical 33°
Memory	2 MB
Scan Rate	120 fps
Optical Resolution	3 mil / 0.075 m
Printing Contrast Scale	10%
Depth of Field	5 Mil Code 39: 50 ~ 150mm 13 Mil UPC / EAN: 65 ~ 315mm 15 Mil QR Code: 35 ~ 175mm 6.67 Mil PDF417: 55 ~ 120mm 10 Mil Data Matrix: 50 ~ 120mm 6.7 Mil PDF417: 6.6 cm ~ 65 cm / 2.6 in. ~ 25.6 in. 10 Mil Data Matrix: 5.6 cm~ 68.8 cm / 2.2 in. ~ 27.1 in. 100% UPC (13 mil): 6.4 cm~ 180 cm / 2.5 in. ~ 71 in. 15 Mil Code 128: 18.2 cm~ 182.9 cm / 7.2 in. ~ 72 in. 200 Mil Data Matrix: 20 cm~ 1440 cm / 7.9 in. ~ 566.9 in. 200 Mil QR: 25 cm~1800 cm / 9.8 in. ~ 708.7 in.
Regulatory Approvals	
CE, FCC, TELEC, VCCI, NCC, BSMI	
Communication	
Radio	Bluetooth® 5.0 dual mode (Class 2)
Wireless Coverage	66 ft / 20m (line of sight)
Host Interface supported	BT HID, BT SPP, USB HID, USB VCP

Mechanical	
Dimension	27.6 x 46.2 x 26.8 mm (W x L x H)
Weight	19.4g
Symbologies	
1D Barcodes	Code 128, EAN-13, EAN8-, UPC-E, UPC-A, ISBN, ISSN, Code 11, Interleaved 2 of 5, Code 39, Code 93, Code 32, Codabar, Matrix 2 of 5, Industrial 2 of 5, Standard 2 of 5, Plessey, MSI Plessey, GS1 Databar, Febraban, Composite
2D Barcodes	QR Code, Micro QR Code, PDF417, MicroPDF417, Data Matrix, Aztec, MaxiCode, HanXin, Dotcode
Electrical	
Operation Voltage	3.7 VDC $\pm$ 5%
Current Consumption	Working Current: < 210 mA Standby Current: < 25 mA
Indicator	LED, Buzzer
Battery Capacity	3.7V, 240 mAh
Environmental	
ESD Protection	Functional after 4KV contact, 8KV air discharge
Mechanical Shock	1.5 M onto concrete
Operating Temperature	-10°C ~ 50°C
Storage Temperature	-20°C ~ 60°C
Charging Temperature	10°C ~ 45°C
Relative Humidity	0% ~ 95%RH (Non-condensing)
IP Rating	IP42

Note:

The device is restricted to indoor use only when operating in the 5250-5350 MHz / 5945 to 6425MHz (for LPI) frequency range.

	AT	BE	BG	HR	CY	CZ	DK
	EE	FI	FR	DE	EL	HU	IE
	IT	LV	LT	LU	MT	NL	PL
	PT	RO	SK	SI	ES	SE	UK(NI)
	IS	LI	NO	CH	TR		

1.4 Getting Started

1. Pull open the long end and insert your index finger through the loop.



2. Adjust and attach the long end for a comfortable fit.



3. Clench your fist and use your thumb to tap the touch-activated trigger button. A gentle touch on the button will work; there is no need to press with force.



3. Aim at the barcode you wish to scan.



1.4.1 How to Remove the Velcro Strap

1. Pull open the long end.



2. Pull out the long end through the slot.



3. Pull open the short end on the other side.



4. Keep pulling the short end until the entire Velcro strap is removed from the scanner.



1.4.2 How to Install the Velcro Strap

1. Insert the long end through the one slot, with the Velcro side facing downward.



2. Pull the long end all the way through.



3. Insert the long end through the other slot, with Velcro side facing upwards.

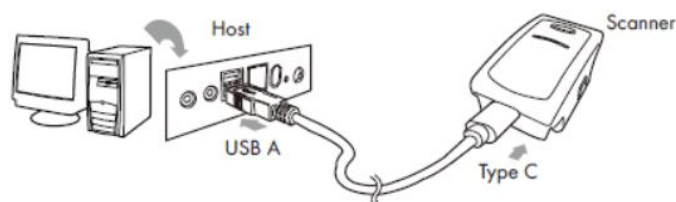


3. Fold the long end over and press the Velcro surfaces together to secure.



1.4.3 Charging the Battery

1. Flip open the Type-C USB port on the scanner.
2. Insert the Type-C USB connector into the port on the scanner and USB A connector into a USB port on the host PC or a smartphone charger.
3. Keep charging until the red LED indicator turns off.



1.4.4 Beeper Indication

Beeper	Descriptions
Single beep	Good read
Single short beep	Code39 ASCII Read During Multi-Step Configuration
Two beeps	Wireless connection
Three beeps	Configuration Barcode Successfully Read
Three short beeps	Wireless disconnection
Four beeps (Hi-Lo-Hi-Lo)	Barcode Read While Disconnected
Five beeps	Unexpected barcode during multi-step configuration (Scan “ Abort ” and start over)

1.4.5 LED Indication

LED	Descriptions
Off	Power off / Standby / Connected
Flashing blue	Disconnected / Discoverable
One green flash	Good read
Flashing red	Low power
Solid red	Charging

Chapter 2 – General Setting

2.1 Barcode Configurability (Setup Code)

Scan the barcodes below to allow or prohibit configuration changes using this manual.

Enable Barcode Configurability*



Disable Barcode Configurability



2.1.1 Factory Default

Scan the barcode below to reset all parameters to the factory default settings (marked with an asterisk *).

Factory Default



2.1.2 Check Version

Scan the barcode below to check the firmware version.

Check Version



2.1.3 Button Preference

Scan one of the barcodes below to select the touch-sensing button.

Right Button Only
[For Left-handed User]



.F064\$

Left Button Only*
[For Right-handed User]



.F065\$

Both Button



.F066\$

2.2 Good Read Indicator

2.2.1 Beep Tone

Off



Beep Low (2.0KHz)



Beep Medium (2.7KHz)



Beep High (4.0KHz)*



2.3 Data Format

2.3.1 UTF-8 to Unicode Conversion

Disable UTF-8 to Unicode*



Enable UTF-8 to Unicode (Word)



2.3.2 Country Code Page

West European Latin*



Traditional Chinese, Big5 (Notepad / Excel)



Traditional Chinese, Big5 (Word)



Note: A code page defines the mapping between character codes and characters. Select the appropriate code page to display the correct characters for scanned barcodes. When using **Shift-JIS**, disable UTF-8 to Unicode Conversion.

2.3.3 HT / CR / ESC Converts to TAB / ENTER / ESCAPE

Off*



.D026\$

On



.D025\$

Note:

1. By default, HT [\$I], CR [\$M], and ESC [%A] are transmitted as <0x09>, <0x0D>, and <0x1B> respectively.
2. When enabled, HT [\$I], CR [\$M] and ESC [%A] are transmitted as <TAB>, <ENTER>, and <ESCAPE> on the keyboard, respectively.

2.3.4 Function Code Conversion

Off



.C020\$

On*



.C019\$

Note: When disabled, the scanner outputs the original encoded data for the barcodes listed in the following appendices: **Function Keys, Navigation Keys, and Modifier Keys.**

2.3.5 Control Code Output Method

Ctrl Mode*



Alt Mode



Disable Output



Note: Control codes (0x01-0x1F) can be transmitted using two methods:

(1) Ctrl Mode:

A barcode with "A<HT>F" (0x41/0x09/0x46) is scanned, the output sequence is:

- Enter "A" – Press the "A" key
- Enter "Ctrl + I" – Since 0x09 corresponds to "Ctrl + I", the virtual keyboard will press and hold the "Ctrl" key, press the "I" key, and release the "Ctrl" key and the "I" key
- Enter "F" – Press the "F" key

Since "Ctrl + I" is a shortcut for italicizing text in some software applications, the result of the above output sequence can be a regular A plus an italic F.

(2) Alt Mode:

For <HT>, the output sequence of the virtual keyboard is:

Enter "Alt + 0 + 0 + 0 + 9" – Virtual keyboard will press and hold Alt key, press "0", "0", "0" and "9" on numeric keypad respectively, and release Alt key.

Control Code Table

ASCII	Hex	Dec	Ctrl Mode	Alt Mode
NUL	00	0	Ctrl+Shift+2	Alt+0+0+0+0
SOH	01	1	Ctrl+a	Alt+0+0+0+1
STX	02	2	Ctrl+b	Alt+0+0+0+2
ETX	03	3	Ctrl+c	Alt+0+0+0+3
EOT	04	4	Ctrl+d	Alt+0+0+0+4
ENQ	05	5	Ctrl+e	Alt+0+0+0+5
ACK	06	6	Ctrl+f	Alt+0+0+0+6
BEL	07	7	Ctrl+g	Alt+0+0+0+7
BS	08	8	Ctrl+h	Alt+0+0+0+8
HT	09	9	Ctrl+i	Alt+0+0+0+9
LF	0A	10	Ctrl+j	Alt+0+0+1+0
VT	0B	11	Ctrl+k	Alt+0+0+1+1
FF	0C	12	Ctrl+l	Alt+0+0+1+2
CR	0D	13	Ctrl+m	Alt+0+0+1+3
SO	0E	14	Ctrl+n	Alt+0+0+1+4
SI	0F	15	Ctrl+o	Alt+0+0+1+5
DLE	10	16	Ctrl+p	Alt+0+0+1+6
DC1	11	17	Ctrl+q	Alt+0+0+1+7
DC2	12	18	Ctrl+r	Alt+0+0+1+8
DC3	13	19	Ctrl+s	Alt+0+0+1+9
DC4	14	20	Ctrl+t	Alt+0+0+2+0
NAK	15	21	Ctrl+u	Alt+0+0+2+1
SYN	16	22	Ctrl+v	Alt+0+0+2+2
ETB	17	23	Ctrl+w	Alt+0+0+2+3
CAN	18	24	Ctrl+x	Alt+0+0+2+4
EM	19	25	Ctrl+y	Alt+0+0+2+5
SUB	1A	26	Ctrl+z	Alt+0+0+2+6
ESC	1B	27	Ctrl+[	Alt+0+0+2+7
FS	1C	28	Ctrl+\	Alt+0+0+2+8
GS	1D	29	Ctrl+]	Alt+0+0+2+9
RS	1E	30	Ctrl+Shift+6	Alt+0+0+3+0
US	1F	31	Ctrl+Shift+-	Alt+0+0+3+1

2.3.6 Numeric Key

Numeric Key



Alphanumeric Key*



Note:

1. By default, digits are transmitted using the **Alphanumeric Key**. Scan **Numeric Key** to transmit digits using the numeric keypad on the physical keyboard.
2. When **Numeric Key** is selected, make sure **Num Lock** is **ON** on the physical keyboard.

2.3.7 Auto Num Lock

Auto Num Lock Off



Auto Num Lock On*



Note: When enabled, the scanner automatically enables Num Lock in Alt Mode, Code Page, or UTF-8 to Unicode output if Num Lock is disabled.

2.3.8 Capital Lock Mode

Caps Lock Off*



Caps Lock On



Caps Lock Free



Note: When the barcode scanner is set to **Caps Lock Free Mode**, the output always matches the original barcode data regardless of the keyboard Capslock status (ON or OFF).

2.3.8 Surround GS1 Application Identifiers (AIs) with Parentheses

Do Not Surround AIs with Parentheses*



Surround AIs with Parentheses



Note: When enabled, all GS1 AIs in the barcode (GS1-128, GS1 DataMatrix, UDI, etc.) are enclosed in parentheses.

2.4 Imaging Settings

2.4.1 1D Inverse Barcode

Disable 1D Inverse Barcode*



Enable 1D Inverse Barcode



2.4.2 2D Inverse Barcode

Disable 2D Inverse Barcode*



Enable 2D Inverse Barcode



Chapter 3 – Interface

3.1 BT HID

3.1.1 Getting Connected

1. Press the top **Function Button** to power on the MS626 Plus.
2. Scan “**Disconnect.**” The MS626 Plus emits two beeps.

Disconnect



3. Scan “**BT HID.**” The MS626 Plus emits two beeps.

BT HID



4. Select “**MS626Plus_XXXX**” from the list of discovered devices.
5. The MS626 Plus emits two beeps, indicating that the Bluetooth connection has been successfully established.
6. When the MS626 Plus is connected as a physical keyboard, the on-screen keyboard on the iOS or Android device may disappear. To resolve this issue, follow the steps below:
 - (1) For iOS devices, press the top **Function Button** once.
 - (2) For Android device, go to “**Settings**” > “**Language & Input**” > tap “**Default keyboard**”, and turn off “**Physical keyboard**” or turn on “**On-screen keyboard**”.

3.2 BT SPP

3.2.1 Getting Connected

1. Press the top **Function Button** to power on the MS626 Plus.
2. Scan "**Disconnect.**" The MS626 Plus emits two beeps.

Disconnect



3. Scan "**BT SPP.**" The MS626 Plus emits two beeps.

BT SPP



4. Select "**MS626Plus_XXXX**" from the list of discovered devices.
5. Enter the serial communication software on the host and open the port used by the MS626 Plus.
6. The MS626 Plus emits two beeps, indicating that the Bluetooth connection has been successfully established.

3.2.2 Set SPP PIN Code

The default PIN code for the MS626 Plus under the BT SPP profile is “1234”. It can be configured with up to 8 digits.

Set SPP Pincode



Example: Set SPP PIN code to 0000.

Step1: Scan “**Set SPP PIN code**”

Step2: Scan “0” “0” “0” “0” in [Appendix A - Numbers](#)

Step3: Scan “**Set SPP PIN code**”

3.3 BT BLE

3.3.1 Getting Connected

1. Press the top **Function Button** to power on the MS626 Plus.
2. Scan "**Disconnect.**" The MS626 Plus emits two beeps.

Disconnect



3. Scan "**BT BLE.**" The MS626 Plus emits two beeps.

BT BLE



4. Select "**MS626Plus_XXXX**" from the list of discovered devices.
5. Enter the BLE communication software on the host and open the port occupied by the MS626 Plus.
6. The MS626 Plus emits two beeps, indicating that the Bluetooth connection has been successfully established.

3.4 General Bluetooth Settings

3.4.1 Power-Off Timeout

By default, the power-off timeout is 3 minutes by default. It is configurable from a minimum of 1 minute (00:01) to a maximum of 8 hours and 59 minutes (08:59).

Set Hour (Default = 00)



Set Minute (Default = 03)



Example: Set Power Off Timeout to 1 hour and 30 minutes.

Step1: Scan **"Set Hour"**

Step2: Scan **"0"** **"1"** in [Appendix A - Numbers](#)

Step3: Scan **"Set Hour"**

Step4: Scan **"Set Minute"**

Step5: Scan **"3"** **"0"** in [Appendix A - Numbers](#)

Step6: Scan **"Set Minute"**

To disable Power-Off Timeout (make scanner always on), scan the barcode below.

Disable Timeout



3.4.2 Shut Down

To shut down the MS626 Plus immediately, scan the barcode below.

Shut Down



3.4.3 iOS Touch Keyboard

To toggle the iOS touch keyboard, scan the barcode below.

Toggle iOS Touch Keyboard



Alternatively, you may press the **Function Button**.

3.4.4 Set Bluetooth Device ID

The Bluetooth device name supports up to 16 alphanumeric characters.

Set Bluetooth Device ID



Example: Set XYZ123 as the Bluetooth Device ID

Step 1: Scan “**Set Bluetooth Device ID**”

Step 2: Scan “**X**” “**Y**” “**Z**” “**1**” “**2**” “**3**” in [Appendix B - Upper Case Alphabets](#) & [Appendix A - Numbers](#)

Step 3: Scan “**Set Bluetooth Device ID**”

To reset Bluetooth Device ID to “**MS626Plus_XXXX**”, scan the barcode below.

Reset Bluetooth Device ID



3.4.5 Check Bluetooth Firmware Version

To check the MS626 Plus’s Bluetooth firmware version, connect to a host device via BT HID or BT SPP, and scan the barcode below.

Check Bluetooth Firmware Version



3.4.6 Check Device MAC Address

To check the MS626 Plus’s MAC address, connect to a host device via BT HID or BT SPP, and scan the barcode below.

Check Device MAC Address



3.4.7 Check Host MAC Address

To check the MS626 Plus’s MAC address, connect to a host device and scan the barcode below.

Check Host MAC Address



3.4.8 Check Battery Level

To check the MS626 Plus's battery level, connect to a host device and scan the barcode below.

Check Battery Level



3.4.9 ScanLink

ScanLink is a connection method that turns the scanner into a master device, which initiates the Bluetooth connection with the target host device (now a slave device). As a result, it saves the user the trouble of going through numerous setup procedures on the host device to establish the connection.

Simply generate a ScanLink barcode for the target slave device according to the rule below:

1. For the BT HID profile, encode:

HID<MAC Address> in Code39 without checksum or QR Code.

2. For the BT SPP profile, encode:

SPP<MAC Address> in Code39 without checksum or QR Code.

Example: Target Slave Device MAC Address = 00:15:83:52:2C:3B, Profile = BT HID

Encode **HID001583522C3B** in Code39 without checksum or QR Code.

3.4.10 NFC Pairing

The MS626 Plus can be paired with NFC-compatible Android device with just a tap. Follow the steps below:

1. Enable NFC and Bluetooth on the Android device, and make sure the screen is unlocked and turned on.
2. Press the top **Function Button** to power on the MS626 Plus.
3. Scan “**Disconnect.**” The MS626 Plus emits two beeps.

Disconnect



4. Scan “**BT HID.**” The MS626 Plus emits two beeps.

BT HID



5. Tap the NFC area on the Android device against the **NFC area** (logo area) at the top of the MS626 Plus.



6. A Bluetooth pairing request dialog appears (sometimes in the drop-down notification). Tap “**Pair**”.
7. The MS626 Plus emits two beeps, indicating that the Bluetooth connection has been successfully established.

3.5 Memory Mode

Memory Mode



After scanning the above barcode, the MS626 Plus will be able to collect barcode data offline. The barcode data will be stored in the following format:

<Date>, <Time>, <Barcode Data> <CR>

To retrieve the stored data, connect the scanner to the host with a USB cable, and access the removable storage device “**MiniScan.**” From there, you may open or copy the file “**BARCODE.txt**” to your computer.

To exit **Memory Mode**, simply scan any interface barcode (e.g., “**BT HID**”, “**BT SPP**”, “**USB HID**”, “**USB VCP**”) other than **Memory Mode**.

3.5.1 Delete Last Record

To delete the last memory data, scan the barcode below or press the **Function Button** once when the MS626 Plus is in Memory Mode.

Delete Last Record



3.5.2 Clear All Record

To delete all memory data, connect the scanner to the host with a USB cable, access the removable storage device “**MiniScan,**” and delete the file “**BARCODE.txt.**” The scanner will emit two beeps as an indication that the file has been successfully deleted.

3.5.3 Data Format

The default Data Format in memory mode is <Date>, <Time>, <Barcode Data>.

Data Format



Below are configurable items and their setup codes:

Code	Item
2	Date
3	Time
4	Barcode Data

Example: Set Data Format as <Barcode Data>, <Date>, <Time>

Step1: Scan “Data Format”

Step2: Scan “4” “3” “2” respectively in [Appendix A - Numbers](#)

Step3: Scan “Data Format”

3.5.4 Field Separator

The field separator in memory mode is comma (,) by default. It can be replaced by any alphanumeric characters.

Field Separator



Example: Set Field Separator as Semicolon (;)

Step1: Scan “Field Separator”

Step2: Scan “ ; ” in [Appendix E - Symbols](#)

Step3: Scan “Field Separator”

3.5.5 Date Format

The default Date Format is **DD/MM/YYYY** (Code = 09)

Date Format



Below are the available **Date Formats** and their setup codes:

Code	Date Format	Code	Date Format
01	DD-MM-YYYY	09	DD/MM/YYYY
02	MM-DD-YYYY	10	MM/DD/YYYY
03	DD-MM-YY	11	DD/MM/YY
04	MM-DD-YY	12	MM/DD/YY
05	YYYY-MM-DD	13	YYYY/MM/DD
06	YY-MM-DD	14	YY/MM/DD
07	DD-MM	15	DD/MM
08	MM-DD	16	MM/DD

Example: Set Date Format as MM/DD/YY (Code = 12)

Step1: Scan “**Date Format**”

Step2: Scan “**1**” “**2**” respectively in [Appendix A - Numbers](#)

Step3: Scan “**Date Format**”

3.5.6 Time Format

The default Time Format is HH:MM:SS (Code = 01)

Time Format



Below are available Time Format and their setup codes:

Code	Time Format
01	HH:MM:SS
02	HH:MM

Example: Set Time Format as HH:MM (Code = 02)

Step1: Scan “Time Format”

Step2: Scan “0” “2” respectively in [Appendix A - Numbers](#)

Step3: Scan “Time Format”

3.5.7 Date & Time Setup

Set Date



Set Time



Example: Set the date to 2022-07-27, and the time to 08:10:30 am (HH:MM:SS)

Step1: Scan “Set Date”

Step2: Scan “2” “2” “0” “7” “2” “7” in [Appendix A - Numbers](#)

Step3: Scan “Set Date”

Step4: Scan “Set Time”

Step5: Scan “0” “8” “1” “0” “3” “0” in [Appendix A - Numbers](#)

Step6: Scan “Set Time”

3.6 USB HID

Scan the barcode below to configure the MS626 Plus to the USB HID interface, allowing it to function as an HID keyboard device.

USB HID



3.6.1 Keyboard Layout

English (US)*



English (UK)



Danish



Spanish



Hungarian (QWERTZ)



Hungarian (QWERTY)



Canadian French**Dutch****Italian****French****German****Swiss German****Swiss French****Swedish****Czech (QWERTZ)**

Czech (QWERTY)**Norwegian****Belgian****Portuguese****Slovak****Brazilian (QWERTY)****Canadian (Traditional)****Japanese****Alt Code**

3.6.2 Intercharacter Delay

The configurable range is from 0 to 255 ms. A larger value results in a longer delay.

Set Intercharacter Delay (Default = 2 ms)



Example: Set Intercharacter Delay to 8 ms

Step1: Scan **"Set Intercharacter Delay"**

Step2: Scan **"0" "0" "8"** in [Appendix A - Numbers](#)

Step3: Scan **"Set Intercharacter Delay"**

3.6.3 Interblock Delay

The configurable range is from 0 to 2550 ms. A larger value results in a longer delay.

Set Interblock Delay (Default = 0 ms)



Example: Set Interblock Delay to 20 ms

Step1: Scan **"Set Interblock Delay"**

Step2: Scan **"0" "0" "2"** in [Appendix A - Numbers](#)

Step3: Scan **"Set Interblock Delay"**

3.7 USB VCP

Scan the barcode below to configure the MS626 Plus to the USB VCP interface. The scanner can then communicate with the host via a USB Virtual COM port. Normally, the virtual COM port is recognized by the host. **If it is not recognized, download the VCP driver from our website.**

USB VCP



.C006\$

3.7.1 BCC (Binary Check Character)

On



.E029\$

Off*



.E030\$

Note:

Once enabled, a checksum will be added to the end of each data string to perform an Xor calculation. For Bluetooth SPP and USB VCP, the BCC is 1 byte. For Bluetooth HID and USB HID, the BCC is 2 bytes.

Example: The barcode data is "TEST" with terminator <CR><LF>

1. BT SPP & USB VCP:

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

BCC = 54h ^ 45h ^ 53h ^ 54h ^ 0Dh ^ 0Ah = 11h

2. BT HID & USB HID:

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

BCC = 54h ^ 45h ^ 53h ^ 54h ^ E7h = F1h

However, since control characters cannot be displayed in Bluetooth HID and USB HID, the BCC will be converted into 2 bytes of characters.

As a result, the data will be: TEST + <Enter> + F + 1

Chapter 4 – Reading Mode

4.1 Trigger Mode

In Trigger Mode, the LED stays on when the trigger is pressed and held, and turns off automatically once a barcode is read or the LED Auto-Off timeout expires.

Trigger Mode*



4.2 Toggle Mode

In Toggle Mode, the LED stays on when the trigger is pressed, and turns off automatically once a barcode is read or the LED Auto-Off timeout expires.

Toggle Mode



4.3 Continuous Mode

In Continuous Mode, the LED stays on until the LED Auto-Off timeout expires, and then immediately turns on again.

Continuous Mode



4.4 Batch Mode

In Batch Mode, the LED stays on when the trigger is pressed and held, during which the scanner reads each unique barcode once. It cannot be read again until the next cycle.

Batch Mode



4.5 Auto-Sensing Mode

In Auto-Sensing Mode, the LED turns off automatically after the LED Auto-Off timeout expires. Any change detected in the image causes the LED to turn on again.

Auto-Sensing Mode



4.5.1 Trigger / Toggle / Auto-sensing Mode – LED

Auto-Off Timeout

The configurable range is 1.0 to 9.9 sec. Three digits must be programmed during the multi-step configuration. (010 = 1.0 sec, 011 = 1.1 sec, 012 = 1.2 sec, 013 = 1.3 sec, 099 = 9.9 sec).

LED Auto-Off Timoeut (Default = 3 sec)



Example: Set LED Auto-Off Timeout as 5 sec

Step1: Scan “LED Auto-Off Timeout”

Step2: Scan “0” “5” “0” in [Appendix A - Numbers](#)

Step3: Scan “LED Auto-Off Timeout”

4.5.2 Continuous Mode / Auto-sensing Mode – Identical

Read Interval

A barcode (or an identical one) can be re-scanned only after the defined Identical Read Interval expires. The configurable range is 1 to 125 sec. Three digits must be programmed during the multi-step configuration. (006 = 1 sec, 007 = 1.5 sec, 008 = 2.0 sec, 009 = 2.5 sec, 010 = 3 sec, 135 = 65.5 sec).

Identical Read Interval (Default = 1 sec)



.F040\$

Example: Set Identical Read Interval as 5 sec

Step1: Scan “Identical Read Interval”

Step2: Scan “0” “1” “4” in [Appendix A - Numbers](#)

Step3: Scan “Identical Read Interval”

Chapter 5 – Data Format

Note: By default data format is as follows:

<Preamble> <Code ID> <Barcode Length> <Barcode Data> <Postamble> <Terminator>

5.1 Code ID

Disable Code ID*



Enable Factory ID



Enable AIM ID



Enable Set ID



5.2 Set ID

The Set ID can be 0 to 2 alphanumeric characters for each symbology.

Set ID – Code39



Set ID – Codabar



Set ID – Code128



Set ID – EAN-13



Set ID – EAN-8



Set ID – UPC-A



Set ID – UPC-E



Set ID – Interleaved 2 of 5



Set ID – Matrix 2 of 5**Set ID – Industrial 2 of 5****Set ID – Code93****Set ID – Code11****Set ID – MSI Plessey****Set ID – Standard 2 of 5****Set ID – PDF417****Set ID – MicroPDF417****Set ID – QR Code**

Set ID – Data Matrix



Set ID – Aztec



Set ID – UK Plessey



Set ID – GS1 DataBar



Set ID – MaxiCode



Set ID – HanXin



Set ID – DotCode



Set ID – Composite

**Example: Set Code39 Set ID as XY"**Step1: Scan **"Set ID – Code39"**Step2: Scan **"X"** **"Y"** in [Appendix B - Upper Case Alphabets](#)Step3: Scan **"Set ID – Code39"**

5.3 Data Length

Send Data Length Off*



Send Data Length On



5.4 Preamble

Preamble can be up to 16 bytes of data.

Set Preamble



Example: Set XYZ123 as Preamble

Step 1: Scan “Set Preamble”

Step 2: Scan “X” “Y” “Z” “1” “2” “3” in [Appendix B - Upper Case Alphabets](#) & [Appendix A - Numbers](#)

Step 3: Scan “Set Preamble”

5.5 Postamble

Postamble can be up to 16 bytes of data

Set Postamble



Example: Set XYZ123 as Postamble

Step 1: Scan "Set Postamble"

Step 2: Scan "X" "Y" "Z" "1" "2" "3" in [Appendix B - Upper Case Alphabets](#) & [Appendix A - Numbers](#)

Step 3: Scan "Set Postamble"

5.6 Clear Preamble / Postamble

Clear Preamble / Postamble



5.7 Terminator

None



<LF>



<CR>*



<CR><LF>



<TAB>



<Space>



<ESC>



Note:

1. The default terminator for BT HID or USB HID interfaces is = <CR> (or Enter)
2. The default terminator for BT SPP or USB VCP interfaces is = <CR><LF>
3. <CR><LF> or <LF> is treated as Enter for BT HID or USB HID interfaces

Chapter 6 Symbologies

6.1 General Settings

Enable All Symbologies



Disable All Symbologies



Enable All 1D Symbologies



Disable All 1D Symbologies



Enable All 2D Symbologies



Disable All 2D Symbologies



Note: When all symbologies are disabled, configuration barcodes are still readable.

6.2 UPC-A

6.2.1 Enable / Disable UPC-A

Enable UPC-A*



Disable UPC-A



6.2.2 Check Digit

Send Check Digit*



Not Send Check Digit



6.2.3 Lead Digit (System Number)

Send Lead Digit*



Not Send Lead Digit



6.2.4 Supplement

5-digit Supplement On



5-digit Supplement Off*



2-digit Supplement On



2-digit Supplement Off*



6.2.5 UPC-A Expand to EAN-13

Enable UPC-A Expand to EAN-13



Disable UPC-A Expand to EAN-13*



6.3 UPC-E

6.3.1 Enable / Disable UPC-E

Enable UPC-E*



Disable UPC-E



6.3.2 UPC-E System Number

UPC-E0 Off & UPC-E1 Off



UPC-E0 On Only*



UPC-E1 On Only



UPC-E0 On & UPC-E1 On



6.3.3 Check Digit

Send Check Digit*



Not Send Check Digit



6.3.4 Lead Digit (System Number)

Send Lead Digit*



Not Send Lead Digit



6.3.5 Supplement

5-digit Supplement On



5-digit Supplement Off*



2-digit Supplement On



2-digit Supplement Off*



6.3.6 UPC-E Expand to UPC-A

Enable UPC-E Expand to UPC-A



Disable UPC-E Expand to UPC-A*



6.4 EAN-8

6.4.1 Enable / Disable EAN-8

Enable EAN-8*



.H019\$

Disable EAN-8



.H020\$

6.4.2 Check Digit

Not Send Check Digit



.H024\$

Send Check Digit*



.H023\$

6.4.3 Supplement

5-digit Supplement On



5-digit Supplement Off*



2-digit Supplement On



2-digit Supplement Off*



6.4.4 EAN-8 Expand to EAN-13 (Zero Extension)

Enable EAN-8 Expand to EAN-13



Disable EAN-8 Expand to EAN-13*



6.5 EAN-13

6.5.1 Enable / Disable EAN-13

Enable EAN-13*



.H013\$

Disable EAN-13



.H014\$

6.5.2 Check Digit

Not Send Check Digit



.H018\$

Send Check Digit*



.H017\$

6.5.3 Supplement

5-digit Supplement On



5-digit Supplement Off*



2-digit Supplement On



2-digit Supplement Off*



6.5.4 ISBN

On



Off*



6.5.5 ISSN

On



Off*



6.6 Code 128

6.6.1 Enable / Disable Code 128

Enable Code 128*



Disable Code 128



6.6.2 Code 128 Min / Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for Code 128

Step1: Scan "Set Min Length"

Step2: Scan "0" "8" in [Appendix A - Numbers](#)

Step3: Scan "Set Min Length"

Step4: Scan "Set Max Length"

Step5: Scan "1" "2" in [Appendix A - Numbers](#)

Step6: Scan "Set Max Length"

Note: The configurable range for Min / Max Length is 01-99.

6.7 GS1-128(UCC / EAN 128)

6.7.1 Enable / Disable GS1-128

Enable GS1-128*



Disable GS1-128



6.7.2 GS1-128 Min / Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for GS1-128

Step1: Scan "Set Min Length"

Step2: Scan "0" "8" in [Appendix A - Numbers](#)

Step3: Scan "Set Min Length"

Step4: Scan "Set Max Length"

Step5: Scan "1" "2" in [Appendix A - Numbers](#)

Step6: Scan "Set Max Length"

Note: The configurable range for Min / Max Length is 01-99.

6.8 Code 39

6.8.1 Enable / Disable Code 39

Enable Code 39*



Disable Code 39



6.8.2 Verification

Disable CDV*



CDV & Send CD



CDV & Not Send CD



6.8.3 Start / Stop

Not Send Start / Stop*



Send Start / Stop



6.8.4 Full ASCII Code39

Enable Full ASCII Code39*



Disable Full ASCII Code39



6.8.5 Code39 Min / Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for Code39

Step1: Scan “Set Min Length”

Step2: Scan “0” “8” in [Appendix A - Numbers](#)

Step3: Scan “Set Min Length”

Step4: Scan “Set Max Length”

Step5: Scan “1” “2” in [Appendix A - Numbers](#)

Step6: Scan “Set Max Length”

Note: The configurable range for Min / Max Length is 01-99.

6.9 Code 32

6.9.1 Enable / Disable Code 32

Enable Code 32



Disable Code 32*



Note: Make sure that Code 39 is enabled with verification disabled before enabling Code 32.

6.9.2 Leading / Tailing

Not Send Leading & Tailing



Send Leading Only



Send Tailing Only



Send Leading & Tailing*



6.10 Code 93

6.10.1 Enable / Disable Code 93

Enable Code 93*



Disable Code 93



6.10.2 Code 93 Min / Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for Code93

Step1: Scan “Set Min Length”

Step2: Scan “0” “8” in [Appendix A - Numbers](#)

Step3: Scan “Set Min Length”

Step4: Scan “Set Max Length”

Step5: Scan “1” “2” in [Appendix A - Numbers](#)

Step6: Scan “Set Max Length”

Note: The configurable range for Min / Max Length is 01-99.

6.11 Code 11

6.11.1 Enable / Disable Code 11

Enable Code 11



Disable Code 11*



6.11.2 Verification

Disable CDV*



CDV & Send CD



CDV & Not Send CD



6.11.3 Check Digit

1 Digit*



2 Digits



6.11.4 Code 11 Min / Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for Code11

Step1: Scan “Set Min Length”

Step2: Scan “0” “8” in [Appendix A - Numbers](#)

Step3: Scan “Set Min Length”

Step4: Scan “Set Max Length”

Step5: Scan “1” “2” in [Appendix A - Numbers](#)

Step6: Scan “Set Max Length”

Note: The configurable range for Min / Max Length is 01-99.

6.12 Codabar (NW-7)

6.12.1 Enable / Disable Codabar

Enable Codabar*



Disable Codabar



6.12.2 Verification

Disable CDV*



CDV & Send CD



CDV & Not Send CD



6.12.3 Start / Stop

Not Send Start / Stop



ST / SP: ABCD / ABCD*



ST / SP: abcd / abcd



ST / SP: ABCD / TN*E



ST / SP: abcd / tn*e



6.12.4 Codabar Min / Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for Codabar

Step1: Scan "Set Min Length"

Step2: Scan "0" "8" in [Appendix A - Numbers](#)

Step3: Scan "Set Min Length"

Step4: Scan "Set Max Length"

Step5: Scan "1" "2" in [Appendix A - Numbers](#)

Step6: Scan "Set Max Length"

Note: The configurable range for Min / Max Length is 01-99.

6.13 Interleaved 2 of 5

6.13.1 Enable / Disable Interleaved 2 of 5

Enable Interleaved 2 of 5*



Disable Interleaved 2 of 5



6.13.2 Verification

Disable CDV*



CDV & Send CD



CDV & Not Send CD



6.13.3 Interleaved 2 of 5 Min / Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for Interleaved 2 of 5

Step1: Scan “Set Min Length”

Step2: Scan “0” “8” in [Appendix A - Numbers](#)

Step3: Scan “Set Min Length”

Step4: Scan “Set Max Length”

Step5: Scan “1” “2” in [Appendix A - Numbers](#)

Step6: Scan “Set Max Length”

Note: The configurable range for Min / Max Length is 01-99.

6.14 Matrix 2 of 5

6.14.1 Enable / Disable Matrix 2 of 5

Enable Matrix 2 of 5



Disable Matrix 2 of 5*



6.14.2 Verification

Disable CDV*



CDV & Send CD



CDV & Not Send CD



6.14.3 Matrix 2 of 5 Min / Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for Matrix 2 of 5

Step1: Scan "Set Min Length"

Step2: Scan "0" "8" in [Appendix A - Numbers](#)

Step3: Scan "Set Min Length"

Step4: Scan "Set Max Length"

Step5: Scan "1" "2" in [Appendix A - Numbers](#)

Step6: Scan "Set Max Length"

Note: The configurable range for Min / Max Length is 01-99.

6.15 Industrial 2 of 5

6.15.1 Enable / Disable Industrial 2 of 5

Enable Industrial 2 of 5



Disable Industrial 2 of 5*



6.15.2 Verification

Disable CDV*



CDV & Send CD



CDV & Not Send CD



6.15.3 Industrial 2 of 5 Min / Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for Industrial 2 of 5

Step1: Scan “Set Min Length”

Step2: Scan “0” “8” in [Appendix A - Numbers](#)

Step3: Scan “Set Min Length”

Step4: Scan “Set Max Length”

Step5: Scan “1” “2” in [Appendix A - Numbers](#)

Step6: Scan “Set Max Length”

Note: The configurable range for Min / Max Length is 01-99.

6.16 Standard 2 of 5 (IATA)

6.16.1 Enable / Disable Standard 2 of 5

Enable Industrial 2 of 5



Disable Industrial 2 of 5*



6.16.2 Verification

Disable CDV*



CDV & Send CD



CDV & Not Send CD



6.16.3 Standard 2 of 5 Min / Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for Standard 2 of 5

Step1: Scan “Set Min Length”

Step2: Scan “0” “8” in [Appendix A - Numbers](#)

Step3: Scan “Set Min Length”

Step4: Scan “Set Max Length”

Step5: Scan “1” “2” in [Appendix A - Numbers](#)

Step6: Scan “Set Max Length”

Note: The configurable range for Min / Max Length is 01-99.

6.17 MSI Plessey

6.17.1 Enable / Disable MSI Plessey

Enable MSI Plessey



Disable MSI Plessey*



6.17.2 Verification

CDV & Send CD*



CDV & Not Send CD



6.17.3 Check Digit

Single Mod 10*



Double Mod 10



Mod 11 Plus Mod 10



MSI Plessey Min/Max Length

Set Min Length (Default = 01)



Set Max Length (Default = 99)



Example: Set Min Length as 8, Max Length as 12 for MSI Plessey

Step1: Scan “Set Min Length”

Step2: Scan “0” “8” in [Appendix A - Numbers](#)

Step3: Scan “Set Min Length”

Step4: Scan “Set Max Length”

Step5: Scan “1” “2” in [Appendix A - Numbers](#)

Step6: Scan “Set Max Length”

Note: The configurable range for Min / Max Length is 01-99.

6.18 UK Plessey

6.18.1 Enable / Disable UK Plessey

Enable UK Plessey



Disable UK Plessey*



6.18.2 Verification

CDV & Send CD



CDV & Not Send CD*



6.19 GS1 DataBar

6.19.1 Enable / Disable GS1 DataBar

Enable GS1 DataBar*



Disable GS1 DataBar



6.20 GS1 DataBar Limited

6.20.1 Enable / Disable GS1 DataBar Limited

Enable GS1 DataBar Limited*



Disable GS1 DataBar Limited



6.21 GS1 DataBar Expanded

6.21.1 Enable / Disable GS1 DataBar Expanded

Enable GS1 DataBar Expanded*



Disable GS1 DataBar Expanded



6.22 Composite

6.22.1 Enable / Disable Composite

Enable Composite



Disable Composite*



6.23 QR Code

6.23.1 Enable / Disable QR Code

Enable QR Code*



Disable QR Code



6.24 Micro QR Code

6.24.1 Enable / Disable Micro QR Code

Enable Micro QR Code



Disable Micro QR Code*



6.25 Data Matrix

6.25.1 Enable / Disable Data Matrix

Enable Data Matrix*



Disable Data Matrix



6.26 PDF417

6.26.1 Enable / Disable PDF417

Enable PDF417*



Disable PDF417



6.27 MicroPDF417

6.27.1 Enable / Disable MicroPDF417

Enable MicroPDF417



Disable MicroPDF417*



6.28 Aztec

6.28.1 Enable / Disable Aztec

Enable Aztec*



Disable Aztec



6.29 MaxiCode

6.29.1 Enable / Disable MaxiCode

Enable MaxiCode



Disable MaxiCode*



6.30 HanXin

6.28.1 Enable / Disable HanXin

Enable HanXin



Disable HanXin*



6.31 DotCode

6.28.1 Enable / Disable DotCode

Enable DotCode



.G065\$

Disable DotCode*



.G066\$

Chapter 7 Appendix

Appendix A - Numbers

0



1



2



3



4



5



6



7



8



9



Appendix B - Upper Case Alphabets

A



B



C



D



E



F



G



H



I



J



K



L



M



N



O



P



Q



R



S



T



U



V



W



X



Y



Z



Appendix C - Lower Case Alphabets

a



b



c



d



e



f



g



h



i



J



k



L



m



n



o



p



q



R



s



t



u



v



w



x



y



z



Appendix D - Control Codes

NUL



SOH



STX



ETX



EOT



ENQ



ACK



BEL



BS



HT



LF



VT



FF



CR



SO



SI



DLE



DC1



DC2



DC3



DC4



NAK



SYN



ETB



CAN



EM



SUB

\$Z



ESC

%A



FS

%B



GS

%C



RS

%D

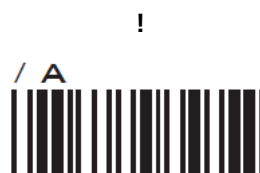


US

%E



Appendix E - Symbols



@



#



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%P



}

%R



[

%K



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%G



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SP



DEL



Appendix F - Function Keys

F1



F2



F3



F4



F5



F6



F7



F8



F9



F10



F11



F12



Home



End



Enter (Numeric Key)



App



Appendix G - Navigation Keys

Cursor Left



Cursor Right



Cursor Up



Cursor Down



Page Up



Page Down



Tab



Back Tab



Esc

\$TW



Enter

\$TX



BS

\$TY



Ins

\$TZ



Del

\$T%K



Appendix H - Modifier Keys

Alt (Left) make *1

\$T%L



Alt (Left) break

\$T%M



Alt (Right) make

\$T+E



Alt (Right) break

\$T+F



Shift (Left) make *2

\$T%N



Shift (Left) break

\$T%□



Shift (Right) make

\$T+I



Shift (Right) break

\$T+J



Win (Left) make

\$T+K



Win (Left) break

\$T+L



Win (Right) make

\$T+M



Win (Right) break

\$T+N



Ctrl (Left) make *3

\$T%W



Ctrl (Left) break

\$T+A



Ctrl (Right) make

\$T+G



Ctrl (Right) break

\$T+H



Note:

**1: When “Alt (Left) make” is programmed, please scan “Alt (Left) break” to resume barcode setting.*

**2: When “Shift (Left) make” is programmed, please scan “Shift (Left) break” to resume barcode setting.*

**3: When “Ctrl (Left) make” is programmed, please scan “Ctrl (Left) break” to resume barcode setting.*

Appendix I - Abort

If there is an error reading data barcode during multi-step configuration, you may cancel configuration by scanning below configuration barcode.

Abort

Appendix J - Default Table

Function	Default	Remark
General Settings		
Barcode Configurability (Setup Code)	ON	
Button Preference	Left Button Only (Right-handed User)	
Beep Tone	High (4.0KHz)	
Data Format		
UTF-8 to Unicode Conversion	OFF	
Country Code Page	West European Latin	
HT/CR/ESC Converts to TAB/ENTER/ESCAPE	OFF	
Function Code Conversion	ON	
Control Code Output Method	Ctrl Mode	
Numeric Key	OFF	
Auto Num Lock	ON	
Capital Lock Mode	OFF	
Surround GS1 Application Identifiers (AI's) with Parentheses	OFF	
Imaging Settings		
1D Inverse Barcode	OFF	
2D Inverse Barcode	OFF	
Interface		
Set SPP Pincode	1234	
General Bluetooth Settings		
Power Off Timeout	00:03	
Set Bluetooth Device ID	MS626Plus_XXXX	
Memory Mode		
Data Format	<Date>,<Time>,<Barcode Data>	
Field Separator	,	
Date Format	DD/MM/YYYY	
Time Format	HH:MM:SS	
Date & Time Setup	N/A	
Keyboard Layout	English (US)	
Intercharacter Delay	2ms	
Interblock Delay	0ms	
BCC	OFF	
Reading Mode		

Trigger Mode	Trigger
Toggle Mode	N/A
Continuous Mode	N/A
Batch Mode	N/A
Auto-sensing Mode	N/A
Trigger / Toggle / Auto-sensing Mode – LED Auto-Off Timeout	3 sec
Countinuous Mode / Auto-sensing Mode – Identical Read Interval	1 sec
Data Format	
Code ID	Disable
Set ID	N/A
Data Length	OFF
Preamble	N/A
Postamble	N/A
Terminator	CR (BT HID / USB HID) CR+LF (BT SPP / USB VCP)
Symbologies	
General Settings	N/A
UPC-A	
Enable/Disable	ON
Check Digit	Send
Lead Digit (System Number)	Send
Supplement	OFF
UPC-A Expand to EAN-13	OFF
UPC-E	
Enable/Disable	ON
UPC-E System Number	UPC-E0 On Only
Check Digit	Send
Lead Digit (System Number)	Send
Supplement	OFF
UPC-E Expand to UPC-A	OFF
EAN-8	
Enable/Disable	ON
Check Digit	Send
Supplement	OFF
EAN-8 Expand to EAN-13 (Zero Extension)	OFF
EAN-13	

Enable/Disable	ON
Check Digit	Send
Supplement	OFF
ISBN	OFF
ISSN	OFF
Code 128	
Enable/Disable	ON
Min Length	01
Max Length	99
GS1-128 (UCC/EAN 128)	
Enable/Disable	ON
Min Length	01
Max Length	99
Code 39	
Enable/Disable	ON
Verification	Disable CDV
Start/Stop	Not Send
Full ASCII Code39	ON
Min Length	01
Max Length	99
Code 32	
Enable/Disable	OFF
Leading/Tailing	Send Leading & Tailing
Code 93	
Enable/Disable	ON
Min Length	01
Max Length	99
Code 11	
Enable/Disable	OFF
Verification	Disable CDV
Check Digit	1 Digit
Min Length	01
Max Length	99
Codabar	
Enable/Disable	ON
Verification	Disable CDV
Start/Stop	ST/SP: ABCD/ABCD
Min Length	01

Max Length	99
Interleaved 2 of 5	
Enable/Disable	ON
Verification	Disable CDV
Min Length	01
Max Length	99
Matrix 2 of 5	
Enable/Disable	OFF
Verification	Disable CDV
Min Length	01
Max Length	99
Industrial 2 of 5	
Enable/Disable	OFF
Verification	Disable CDV
Min Length	01
Max Length	99
Standard 2 of 5 (IATA)	
Enable/Disable	OFF
Verification	Disable CDV
Min Length	01
Max Length	99
MSI Plessey	
Enable/Disable	OFF
Verification	CDV & Send CD
Check Digit	Single Mod 10
Min Length	01
Max Length	99
UK Plessey	
Enable/Disable	OFF
Verification	CDV & Not Send CD
GS1 DataBar	
Enable/Disable	ON
GS1 DataBar Limited	
Enable/Disable	ON
GS1 DataBar Expanded	
Enable/Disable	ON
Composite	
Enable/Disable	OFF

QR Code		
Enable/Disable		ON
Micro QR Code		
Enable/Disable		OFF
Data Matrix		
Enable/Disable		ON
PDF417		
Enable/Disable		ON
MicroPDF417		
Enable/Disable		OFF
Aztec		
Enable/Disable		ON
MaxiCode		
Enable/Disable		OFF
HanXin		
Enable/Disable		OFF
DotCode		
Enable/Disable		OFF

Appendix K - Factory ID and AIM ID Table

#	Symbology	Factory ID	AIM ID	AIM ID Modifier (m)
0	UPC-E	E	]Em	0,3
1	UPC-A	A	]Em	0,3
2	EAN-8	S	]Em	3,4
3	EAN-13	F	]Em	0,3
4	ISBN/ISSN	F	]X0	
5	Code 128	K	]C0	
6	GS1-128	T	]C1	
7	AIM 128		]C2	
8	ISBT 128		]C4	
9	Code 39	M	]Am	0,1,3,4,5,7
10	Code 32	M	]A0	
11	Code 93	L	]G0	
12	Code 11	J	]Hm	0,1,3
13	Codabar	N	]Fm	0,2,4
14	Interleaved 2 of 5	I	]Im	0,1,3
15	Matrix 2 of 5	Y	]Xm	0,2,3
16	Industrial 2 of 5	V	]S0	
17	Standard 2 of 5 (IATA 2 of 5)	R	]S0	
18	MSI Plessey	O	]Mm	0,1
19	PDF417	Z	]L0	

20	MicroPDF417	r	]L0	
21	Data Matrix	X	]dm	0-6
22	QR Code/Micro QR	W	]Qm	0-6
23	Aztec	z	]zm	0,3
24	UK Plessey	P	]P0	
25	GS1 DataBar	G	]e0	
26	Composite	y	]X0	
27	MaxiCode	u	]Um	0,2
28	HanXin	X	]h0	
29	DotCode	j	]X0	

Appendix L - ASCII Table

Note: ASCII 0-31 are non-printable characters; ASCII 32-127 are printable characters.

Hex	Dec	ASCII
00	00	NUL (Null char.)
01	01	SOH (Start of Header)
02	02	STX (Start of Text)
03	03	ETX (End of Text)
04	04	EOT (End of Transmission)
05	05	ENQ (Enquiry)
06	06	ACK (Acknowledgment)
07	07	BEL (Bell)
08	08	BS (Backspace)
09	09	HT (Horizontal Tab)
0A	10	LF (Line Feed)
0B	11	VT (Vertical Tab)
0C	12	FF (Form Feed)
0D	13	CR (Carriage Return)
0E	14	SO (Shift Out)
0F	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)
1A	26	SUB (Substitute)
1B	27	ESC (Escape)
1C	28	FS (File Separator)

1D	29	GS (Group Separator)
1E	30	RS (Request to Send)
1F	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	\$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41	) (Right / Closing Parenthesis)
2A	42	* (Asterisk)
2B	43	+ (Plus)
2C	44	, (Comma)
2D	45	- (Minus / Dash)
2E	46	. (Dot)
2F	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2
33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3A	58	: (Colon)
3B	59	; (Semi-colon)
3C	60	< (Less Than)
3D	61	= (Equal Sign)
3E	62	> (Greater Than)

3F	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B
43	67	C
44	68	D
45	69	E
46	70	F
47	71	G
48	72	H
49	73	I
4A	74	J
4B	75	K
4C	76	L
4D	77	M
4E	78	N
4F	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5A	90	Z
5B	91	[(Left / Opening Bracket)
5C	92	\ (Back Slash)
5D	93	] (Right / Closing Bracket)
5E	94	^ (Caret / Circumflex)
5F	95	_ (Underscore)
60	96	' (Grave Accent)

61	97	a
62	98	b
63	99	c
64	100	d
65	101	e
66	102	f
67	103	g
68	104	h
69	105	i
6A	106	j
6B	107	k
6C	108	l
6D	109	m
6E	110	n
6F	111	o
70	112	p
71	113	q
72	114	r
73	115	s
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7A	122	z
7B	123	{ (Left/ Opening Brace)
7C	124	(Vertical Bar)
7D	125	} (Right/Closing Brace)
7E	126	~ (Tilde)
7F	127	DEL (Delete)