

# Wearable 2D Ring Scanner

- MS652Plus -



### **User's Manual**

Version 1.0

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### Change Log

Date	Change Description	Version
2019/3/21	first published version	1.0



# 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**

# ВС

### **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.

i

- -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.
- 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.

ii

Cet appareil numerique de la classe B respecte les exigences du Reglement sur le material broilleur 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 RED 2014/53/EU directive, the EMC 2014/30/EU directive and the Low Voltage 2014/35/EU directive.

The declaration of conformity is available for download at : <u>https://portal.unitech.eu/public/Safetyregulatorystatement</u>

### **CE RF Exposure Compliance**

This device meets EU requirements (2014/53/EU) on the limitation of exposure of the general public to electromagnetic fields by way of health protection. 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**

CE

This equipment complies with the requirements of Directive 2014/53/EU of the European Parliament and Commission from 24 May, 2014 governing Radio and Telecommunications Equipment and mutual recognition of conformity.

### **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 : <u>https://portal.unitech.eu/public/WEEE</u>



#### **Taiwan NCC Warning Statement**

#### 低功率電波輻射性電機管理辨法

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。

前項合法通信,指依電信法規定作業之無線電通信。

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。
- 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。
- 3. 减少電磁波影響,請妥適使用。



### 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 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

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.

vi



## **Battery Notice**

- 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.
- If you cannot charge the battery after it has been idle for an extended 6. period of time and it begins to heat up, please do not try to charge it. It may not be functional anymore.
- Please only use the original battery from unitech. Using a third party 7. battery can damage our products. Please note that when such damage occurs, it is not covered by your warranty.



- 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

#### **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.
- **CAUTION!** To ensure the unit working properly, please keep all connectors away from the contaminants staying inside of them such as dust, grease, mud, and water. The negligence may cause the unit with no communication, short circuited, overheated and so on.
- **CAUTION!** If the connector is damaged, please ensure the connector is being fully repaired before use the unit to avoid causing short circuited.



#### 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**

- Please do not leave the power adapter in the socket when it is not 1. 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.
- Please only use the bundled power adapter or same specification of 4. 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**

#### 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.



### **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		Europe		
Tel:	+886-2-89121122	Tel:	+31-13-4609292	
E-mail:	info@hq.ute.com	E-mail:	info@eu.ute.com	
Address:	5F, No. 136, Lane 235, Baoqiao Road, Xindian	Address:	Kapitein Hatterasstraat 19, 5015 BB,	
	District, New Taipei City 231, Taiwan (R.O.C.)		Tilburg, the Netherlands	
Website:	http://www.ute.com	Website:	http://eu.ute.com	
China		Japan		
Tel:	+86-59-2310-9966	Tel:	+81-3-35232766	
E-mail:	info@cn.ute.com	E-mail:	info@jp.ute.com	
Address:	Room401C, 4F, RIHUA International Mansion,	Address:	Kayabacho Nagaoka Building 8F.,1-5-19	
	Xinfeng 3nd Road, Huoju Hi-tech District,		Shinkawa, Chuo-Ku,	
	Xiamen, Fujan , China		Tokyo, 104-0033, Japan	
Website:	http://cn.ute.com	Website:	http://jp.ute.com	
Asia & Pa	Asia & Pacific / Middle East		Latin America	
Tel:	+886-2-27911556	Tel:	+52-55-5171-0528	
E-mail:	info@apac.ute.com	E-mail:	info@latin.ute.com	
	info@india.ute.com	Address:	17171 Park Row, Suite 210	
	info@mideast.ute.com		Houston, TX 77084USA (Rep.)	
Address:	4F., No. 236, ShinHu 2nd Rd.,	Website:	http://latin.ute.com	
	NeiHu Chiu, 114, Taipei,Taiwan			
Website:	http://apac.ute.com / http://mideast.ute.com			
North Ame	erica	Please sca	an QR Code to visit us :	
Tel:	+1-714-8926400			
E-mail:	info@us.ute.com / info@can.ute.com			
Address:	6182 Katella Ave, Cypress, CA 90630, USA			
		1		



### **Warranty Policy**

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.

# **Table of Contents**

unitech because we care

Prefacei
About This Manuali
Regulatory Compliance Statementsi
Laser Informationvi
LED Informationvi
Battery Notice vii
Adapter Noticex
Hearing Damage Warningx
Worldwide Supportxi
Warranty Policyxii
Chapter 1 - Overview1
1.1 Package1
1.2 Product Detail2
1.3 Specifications
1.4 Getting Started6
1.5 Battery Charging13
1.6 Trigger Key Functions13
1.7 LED Indicator / Beeper Sequence14
Chapter 2 - Installation16
2.1 Pairing For The First Time Use16
2.2 How To Unpair
2.3 Connection



# **Chapter 1 - Overview**

# 1.1 Package

Please make sure the following contents are in the MS652Plus gift box. If something is missing or damaged, please contact your unitech representative.

#### The standard package contents:

- MS652Plus Wearable 2D Ring Scanner
- Battery
- USB Charger Cable
- Wrist Strap
- Finger rubber pad
- Two double sided tapes
- Quick Start Guide
- Regulatory Compliance Statements

NOTE: The barcode with an asterisk (\*) which appears in the following chapters indicates that it is the default option for the corresponding setting.





# **1.3 Specifications**

System	
Connection	Connect to host with Windows, Android, or iOS
Memory	7.5Mbytes, store up to 590,000 of EAN13 codes
Keys	1x trigger key
Optical & Performance	)
Scan Engine	Zebra SE2707
Sensor	CMOS sensor with 640 x 400 pixel
Light Source	1 Hyper Red 660nm LED
Ambient Light	Max 107, 639 lux (direct sunlight)
Skew Angle	60 degrees
Pitch Angle Sensor	60 degrees
Printing Contrast Scale	minimum 20%
Depth of Field(DOF PCS=80%)	SYMBOLOGY / X-DIM TYPICAL RANGE* 5 mil Code 39 2.0 in / 5.1 cm 6.4 in / 16.2 cm5 mil Code 128 2.5 in / 6.3 cm 5.0 in / 12.7 cm6.6 mil PDF417 2.5 in / 6.3 cm 6.3 in / 16.0 cm10 mil PDF417 1.8 in / 4.5 cm* 9.0 in / 22.8 cm13 mil 100% UPC 2.0 in / 5.0 cm* 12.5 in / 31.7 cm 20 mil Code 39 2.0 in / 5.0 cm* 19.5 in / 49.5 cm 20 mil Data Matrix 1.5 in / 3.8 cm 13.5 in / 34.3 cm 20 mil QR Code 1.5 in / 3.8 cm 11.0 in / 27.9 cm
Communication	
Radio Frequency	Bluetooth <sup>®</sup> 4.2 Bluetooth <sup>®</sup> V2.1
Range	30ft/10M (line of sight)
Host Interface	USB



Protocol	HID / SPP
Mechanical	
Scanner Dimension	50 x 71 x 21 mm
Scanner Weight	95g
Trigger Switch Life	1 million times
Functionality	
Symbologies	<ul> <li>1D: All major symbologies and PDF417</li> <li>2D: QR Code, Data Matrix, Aztec Code, PDF417, Macro PDF417, Micro PDF417, MaxiCode, Codablock A, Codablock E, GS1Composite, Han Xin Codo</li> </ul>
	Australian Post, British Post, Canadian Pos, InfoMail, Intelligent Mail Bar Code, Japanese Post, KIX (Netherlands) Post, GS1 Composite, Korea Post, Planet Code, Postal, Postnet
Operation Mode	Trigger mode, Presentation mode, Auto mode, Batch mode
Data Formatting	Prefix, Suffix, Code ID, Reformatting Date
Electrical	
Operation Voltage	DC 5V
Current Consumption	Operation mode: 400 mA, Standby mode: 160 mA
Battery Type	Rechargeable Lithium-ion
Battery Capacity	800mAH
Charging Time	Fully charged in 4 hours
Operating Time	
Charging Method	USB Cable or Battery Charging cradle
Environmental	
ESD Protection	Functional after 8K Contact and 12K Air
Mechanical Shock	1.5M onto concrete (scanner only)
Operating Temperature	0°C to 50°C(32°F to 122°F)

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Storage Temperature	-20°C to 60°C(-4°F to 140°F)	
Relative Humidity	95% non-condensing	
Charging Temperature	40°C(104°F)	
Regulatory Approvals		
CE, FCC, BSMI, VCCI, TELEC, NCC, BQB		



# **1.4 Getting Started**

### 1.4.1 How to disassemble the trigger module

Simply use your finger to press down the release button and rotate it counterclockwise to remove the trigger module.



### 1.4.2 How to assemble the trigger module

Step .1 Find the release button on MS652Plus



Step 2. Align the four grooves from the trigger module with MS652Plus, also make sure arrows from both sides are close together. Please adjust the arrow alignment as shown in the photo below.



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Then use the trigger module to press down the release button and rotate it clockwise until you hear a clicking sound and the button stays in between the gap of the trigger module. And MS652Plus is ready to go.



For hand preference, there are two gaps for users to swap the trigger key location for left click or right click.



Right handed users (trigger key is on the left )



Left handed users (trigger key is on the right )





### 1.4.3 How to change finger rubber pad

There are two finger pads for users to choose in order to adjust fingers in a comfortable way.



Step 1 : Untighten the velcro band on trigger module.



Step 2 : Choose one of the finger pads, put it on the trigger module and stick into the groove on four edges to fix the finger pad.





#### 1.4.3.1 How to use double sided tapes on rubber pads

To make the rubber pad firmly fix on the on trigger module, we provide a double sided tape for users to use.



Please choose the rubber pad that you will use the most frequently. Once you attach this double sided tape onto the rubber pad, <u>it cannot be removed easily</u> <u>due to its strong adhesion.</u>

Step 1: Slightly hold the tip of the release paper and peel off the brown protective film and attach it to the trigger module. Do not peel off the release paper yet.





Step 2 : Grab the tip of the release paper and to peel it off from the trigger module.



Step 3 : Put the finger pad on the trigger module and stick into the groove from four edges to fix the finger pad.



Notice : We also provide another double sided tapes for users to practice beforehand. These types of tapes are easily removed.





### 1.4.4 How to change the battery

Step 1 : Use your thumb to press down the latch, the battery will automatically jump out, and then you can remove the battery.



Step 2 : To install the battery, slide the battery and press down the battery to secure it until you hear the clicking sound.







### 1.4.5 How to put on MS652Plus

- Step 1. Pull open the velcro band and insert your index finger and middle finger through the loop.
- Step 2. Adjust and tighten the velcro band for a comfortable fit.







Step 3. Clench your fist and use your thumb to tap the trigger key.



Step 4. Aim at the barcode you wish to scan.





# **1.5 Battery Charging**

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



# **1.6 Trigger Key Functions**

- 1. Power On: Press & Hold > 1 second
- 2. Power On & Enter BT Pairing Mode: Press & Hold > 5 seconds
- 3. Power Off: Press & Hold for 5 seconds until you hear a beep.
- 4. Connect USB drive to host: Double click with USB cable connected
- 5. Disconnect USB drive: Double click or press & hold for 2 seconds





# **1.7 LED Indicator / Beeper Sequence**

Action/Status	LED Status
Battery charging	Red LED on
Battery Low < 15%	Red LED blinking every 2 seconds
Battery Low < 5%	Red LED blinking fast with all other LED indicators disabled
System Warning /Error	Red LED toggling every second for 5 seconds or until scan button pressed
BT is paired and disconnected to the host	Green LED on
Scanner in Presentation Mode	Green LED blinking every 2 seconds
System busy with data scanning disabled	Green LED toggling every second
BT is connected to host & ready to send data	Blue LED on
USB drive connected	White LED (Red + Green + Blue) toggling every second
Good read	Green LED flashing once
BT in pairing mode	Blue LED toggling every second



Action/Status	Beep / Sound
Auto Operation Mode	Power On with 1 Beep
Wedge Operation Mode	Power On with 2 Beeps
Batch Operation Mode	Power On with 3 Beeps
Auto Power Off Alarm	3 short beeps at 15 seconds before power off
Power Off	Short beep
Good Read with BT Connected	Beep with medium sound
USB Drive Connection	Beep with low-medium-high sound
USB Drive Disconnection	Beep with high-medium-low sound
System Setting with Shorter Processing Time	Beep with high-low sound
	One beep each with high-low sound at the
System Setting with Longer Processing Time	beginning & end of the setting
System Warning /Error	Beep with high-low-high-low-high sound
Good Read with BT	Beep with high-low-high-low-high system
Disconnected (Wedge Mode)	warning sound
Good Read with BT	
Disconnected (Auto & Batch	Beep with medium-high sound
modes)	
BT Disconnection	Beep with high-medium-low sound
BT Connection	Beep with low-medium-high sound
USB Cable Plug /Unplug	Short beep



# **Chapter 2 - Installation**

# 2.1 Pairing For The First Time Use

### 2.1.1 NFC Pairing with Mobile Devices

### (only applicable in BLE Mode)

- Step 1. Ensure your mobile device supports NFC and that it is enabled.
- Step 2. MS652Plus will automatically enter BT pairing mode.
- Step 3. Turn both NFC & Bluetooth on your mobile device.
- **Step 4.** Touch near the unitech logo area of the MS652Plus scanner to your mobile phone, until the device prompts to accept pairing.
- Step 5. Press ok to respond your Bluetooth pairing request.
- Step 6. MS652Plus is now connected to your mobile phone.



NFC tag is embedded on the backside of housing nearby unitech logo





### 2.1.2 Pairing with Mobile Devices (w/o NFC)

- Step 1. Go to your host device settings and turn the Bluetooth function on.
- Step 2. MS652Plus will automatically enter BT pairing mode.
- Step 3. The MS652Plus will appear on your device as "MS652Plus-XXXX."
- Step 4. Select "MS652Plus-XXXX."
- Step 5. Open a word processing program such as Microsoft Word or Notepad and scan the following barcode. If the word "unitech" appears on the screen you have successfully installed your scanner.



### 2.1.3 Establishing BT connection in BT SPP



- Step 1. Use MS652Plus to scan BT SPP barcode.
- Step 2. It will automatically enter BT pairing mode.
- Step 3. Double-click Bluetooth<sup>®</sup> Device icon in the toolbar on your PC. Select Add New Devices. When you see a device list windows, choose MS652Plus-XXXX and then press Next.
- Step 4. When PC is establishing a BT connection in **BT SPP** mode with MS652Plus, windows system will automatically install the required drivers.
- Step 5. Back to your PC toolbar, right click on the Bluetooth<sup>®</sup> Device icon, choose Open Settings. Go to COM Port page and select in-coming COM port ;for example COM 28.
- **Step 6**. MS652Plus will beep when your PC successfully establish a BT connection with MS652Plus.
- Step 7. Please download Tera Term terminal emulator application from

http://www.ute.com/products info.php?pc1=3&pc2=401&rbu=0&pid=2388 and

then install to you PC.



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### 2.2 How To Unpair

Scan below bar code to unpair MS652Plus with one device before pairing with another new device.

- 1. If MS652Plus is connected to a host, un-pair will not work. Please remove pairing or turn bluetooth<sup>®</sup> off from the host side first & try again.
- 2. If there is trouble to remove pairing on host device, turn off MS652Plus & try again. After pairing on host is removed, scan 'BLE Un-Pair/Pair' for new pairing.







### 2.3.1 To Synchronize Date & Time with Host

- Step 1. Connect MS652Plus as USB drive to host
- Step 2. Open file 'Config.txt'
- Step 3. Use 'Save As' to save file 'Config.txt' without name change to USB Drive
- Step 4. Eject/Disconnect USB drive from host

#### 2.3.2 Rename device

- Step 1. Connect MS652Plus as USB drive to host
- Step 2. Open file 'Config.txt'
- Step 3. Change default device name <DEVICE\_NAME> = "MS652Plus\_XXXX" to <DEVICE\_NAME> = "New\_Device\_Name"
- Step 4. Max. device name length is 16 characters
- Step 5. Save file 'Config.txt'
- Step 6. Eject/Disconnect USB drive from host