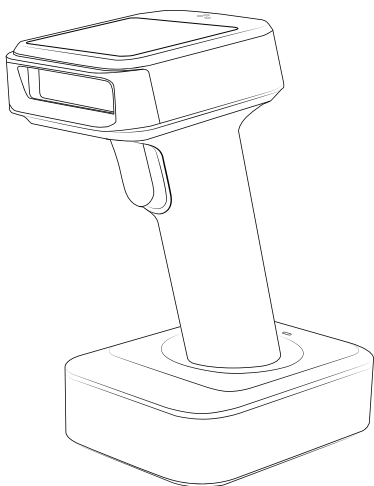


# **TFT Screen Intellectual Wireless Barcode Scanner**

User 's manual



# **BROCHURE**



## Precautions

1. Please read the user manual carefully before using this barcode scanner.
2. The working voltage of this barcode scanner is 3.3V, charging voltage 5V. Please use our original USB cable and AC power adapter to ensure the scanner is working properly.
3. Copyright and Patent Notice Our company reserves the copyright, software copyright and sufficient patents of the ring barcode scanner and its accessories(including firmware,MR Configurator, illustration documents,appearance and so on. )
4. Our company reserves all rights, reserves the right to make any changes to the product to improve its reliability, function or design. Our company shall not be liable for applications or use of any product or circuit with our scanner, or any liability arising therefrom or in connection with any other applications described herein.
5. Our wireless barcode scanner accessories:  
A:standard package: :barcode scanner (1 piece), WIFI dongle (1 piece), USB cable (1 piece), user manual (1 piece).  
Optional Accessory: Stand  
Optional function:Vibration
6. The contents of this manual are subject to change without prior notice.

# Contents

1.Precaution .....	1
2.Introduction and Features .....	3
3.Application & Execution Standards .....	4
4.Working Conditions& Related regulations .....	5
5.Appearance .....	6-8
6.How to use the barcode scanner .....	9-10
7.Initialization Settings&Version Information .....	11
8.Bluetooth Pairing Method.....	11
9.IOS Pull up and Hide Keyboard&Caps Lock Switch .....	12
10.2.4G Pairing Method .....	13
11. Sound and Vibration Setting .....	14
12.Standby Time Setting .....	15
13.Language Settings .....	16
14. End Character Setting .....	17
15.Transmission Speed Setting and Bluetooth protocol .....	18
16.Operating Mode .....	19-20
17.Bluetooth Name Change Setting .....	21
18.Hide front and back characters .....	22-23
19.Set Prefix and Suffix.....	23
20.Add time in the prefix or suffix & Time Updating .....	24
21.Time Update Setting .....	25-28
21.Appendix A .....	29-38
22.FAQ(Frequently Asked Questions) .....	39
23.Buzzer and Indicator Light State .....	40

# Introduction

Our company's barcode scanner series are with strong scanning light source and enhanced long distance scanning technology, making it possible for long distance fast scanning capability for damage, dirty and poor quality printed barcodes under various ambient light conditions.

It is durable in use, since it is protected by the industrial safety technique. High volume buzzer is another hint of success scanning besides LED light.

# Features

Wired , wireless and bluetooth triple-mode freely switching.

Large capacity storage, safe and reliable.

Stores barcodes more than 50000pcs off-line scanning.

Unique power management system, ultra-long standby time.

Rich symbologies supported

Adopting imported trigger button, long lifespan, fitting perfectly in your hand for comfortable use.

Support Android/IOS devices/Windows

Support HID、SPP、BLE protocol

Mini size, fashion design, and portable

Ultra low power consumption and standby time setup available

Bluetooth transmission distance: 15m (indoor)

Support upload data and charge the battery via USB cable at the same time.

# Application

\* Applicable to Business (electrical, book, clothing, medicine, cosmetics, etc.), retail industry, postal service, telecommunications industry, warehousing, logistics industry, public security system, customs systems, banking system, medical system.

\* Compatible with Microsoft, Android, Linux and other operating systems.

\* Multi-national keyboard language

# Scanner Execution Standards

Wireless protocol: bluetooth 2.4G

Memory: 16Mb

Processor: ARM Cortex 32bits

Bluetooth version: Bluetooth 4.1Module

Supported symbologies: 1D: Codabar, Code 11,

Code 93, MSI, Code 128, UCC/EAN-128, Code 39, EAN-8,

EAN-13, UPC-A, ISBN, Industrial 25, Interleaved 25,

Standard 25, 2/5 Matrix,

2D: QR, Data Matrix, PDF417, Aztec, Hanxin ,

Micro PDF417(option)

Indicator: Led、Buzzer、Vibrator(option)

Battery capacity: 1800mA

Charging voltage/current: 5V/1A

Endurance: 1D ≤ 24H 2D ≤ 16H (5seconds/scan)

Charge time: ≤ 4hours

Standby: > 30days

## **Working Conditions**

Working Temperature: 32°F to 104°F/0°C to 40°C

Storage Temperature: -40°F to 140°F/-40°C to 60°C

Humidity: 5% to 95% relative humidity (no condensation)

Ruggedness: Resist about 6 times drops from 1.5m to concrete ground

Ambient Light Immunity: Under normal office and factory ambient lighting conditions, or exposed to the sun won't take any effect to it.

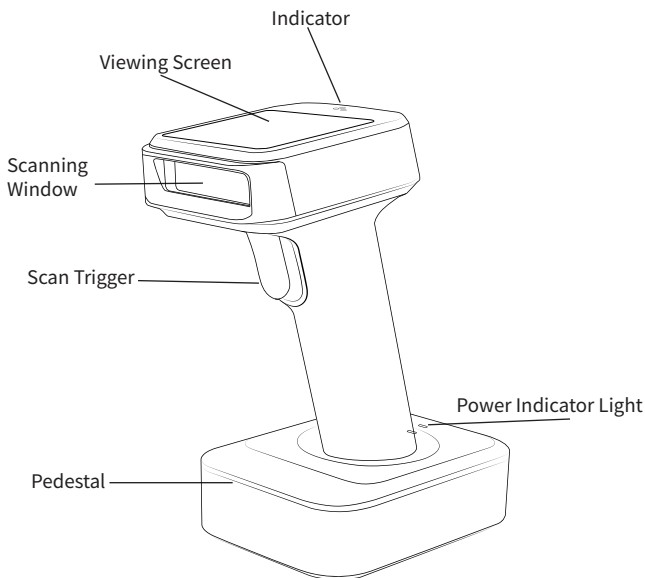
Electrostatic discharge: In line with 15KV air discharge and 8KV contact discharge requirements

## **Related Regulations**

Electrical safety: In accordance with UL1950、CSA C22.2 No.950、  
EN60950/IEC950 EMI/RFI: FCC Part 15 Class B、  
European Union EMC Directive、Taiwan EMC、

Environment Terms: In accordance with RoHS directive 2002/95/EEC

## **Appearance**





## Discription of Viewing Screen

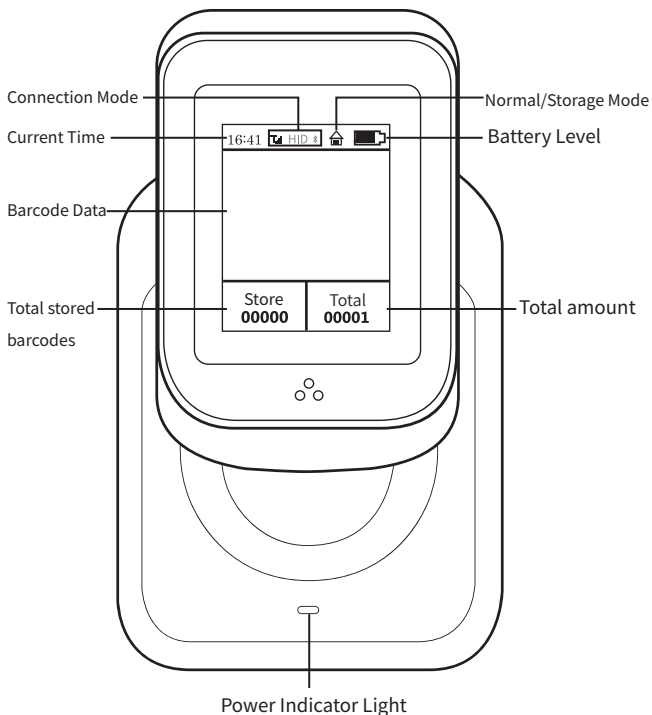
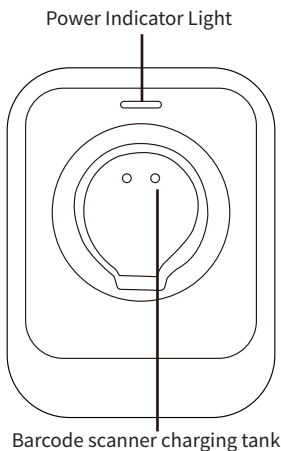
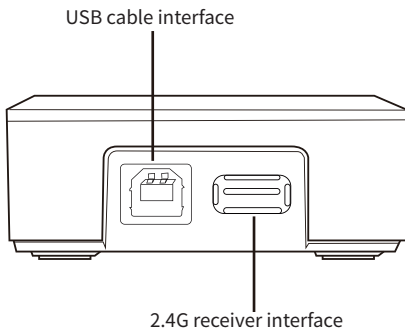


diagram of base side(Optional)



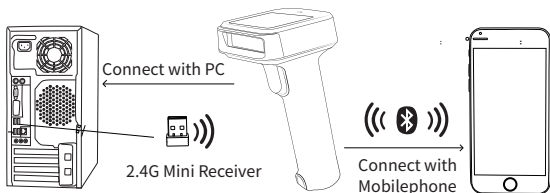
## Several methods of application

Use scanner alone:

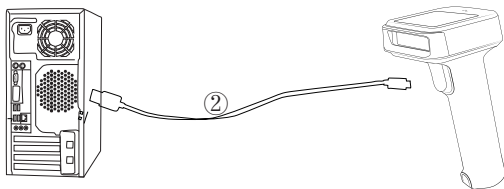
A: When using 2.4G feature, you can match desktop PCs or PC terminals that do not support Bluetooth. Scanner supports systems such as XP, Win7, Win8, Win10, etc.

(Please refer to page 13th for specific pairing steps)

B: When using Bluetooth, you can match Android, IOS mobile phones, or PC terminals with bluetooth capabilities. (Please refer to page 11th for specific pairing steps)

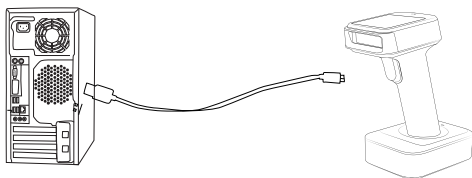


C: Plug in the data cable with the USB end connected to the computer, you can charge the scanner and use it as wired scanner synchronously



Use scanner with pedestal together:

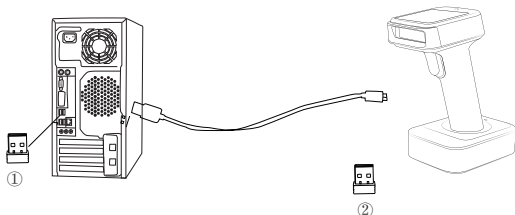
A:A:Charge the base: Connect base with PC via USB cable, the base will work as a charger. When turn off the scanner and put it on the base, the base can charge the scanner. (Bluetooth and 2.4G mode available)



B:Base charges and transfers data synchronously: When base connected to USB cable, the other end is plugged into computer,

①. Plug the mini receiver into computer USB port, so that it can pair with computer and upload the data to computer. The base is used as charger

②. Plug the mini receiver into base USB port, so that it can pair with computer and upload the data to computer. The base is used as charger and data transmission tool. This method can solve the problem of lack computer USB interfaces. (Apply for 2.4G mode only)



## Initialization Settings&Version Information

During usage,if you scan other set-up barcode by mistake and the scanning cannot perform as normal way, you can scan the initialization set-up barcode to revert.



Reset Configuration to Defaults



Version Information

## Bluetooth Pairing Steps :

Pair with operating system (Including Android, ios, win system) that with Bluetooth function :

A. Start the scanner and long press for 8 seconds or scan the “Bluetooth HID Pairing Mode” .

(The sign of time and electric quantity would flicker simultaneously.)



Bluetooth Pairing Setup Barcode

B.Turn on Bluetooth in the device to detect bluetooth device named with "Barcode Scanner HID".Click "Barcode Scanner HID" to enter pairing status. If pair successfully, you will hear a beep. (At the same time the indicator light of bluetooth connection would be always on.)

Note: When the scanner enters the state of matching and it does not pair with bluetooth successfully within 1 minute, there is 2 times long low sound indicated failing match and return to scanning mode.  
(Or trigger twice to exit match mode and revert to scanning state)

## Pull up and hide keyboards



Pull up and hide iOS keyboards



Pull up iOS keyboards



Hide iOS keyboards

## Caps Lock Switch



Compulsory to Lower Case



Compulsory to Capital



No Caps Lock Switch



Caps Lock Switch

## Pairing with 2.4G Dongle :

PC terminals ,like desktop computer, which is not equipped with bluetooth,need to pair with Dongle,Dongle Pairing Steps as follow:

A:Scan Dongle Setup Barcode



B.Scan “Compulsory Pair with Dongle Setup Barcode” so that enter into pairing state. The sign of time and electric quantity would flicker simultaneously.



Compulsory Pair with Dongle Setup Barcode

C.Plug the receiver, If pair successfully, you will hear a beep.The 2.4G connection indicator light would always be bright..

Note: When the scanner enters the state of matching and it does not detect the receiver successfully within 1 minute, there is 2 times long low sound indicated failing match and return to scanning mode.  
(Or trigger twice to exit match mode and revert to scanning state)

## Sound and Vibration Setting

Select the setup barcode you demand



Turn Off the Sound



Turn On the Sound



Turn Off the Vibration(Optional)



Turn On the Vibration(Optional)



## Standby Time Setup



Standby after 1 minute



Standby after 5 minutes



Standby after 10 minutes



Standby after 30 minutes



Never Standby



Standby Immediately

## Language Setup



English



German



French



Spanish



Italian



Japanese



Only apply for PC and output by American Keyboard

# End Mark Setup

Select the end mark you demand



Add CR



Add LF



Add CR+LF



Cancel CR+LF



Add TAB

## Transmission Speed Setup

Select the corresponding transmission speed according to PC receiving speed.



fast



medium



slow



super slow

## Other Bluetooth protocol

Select the bluetooth protocol you demand



bluetooth HID mode



bluetooth SPP mode



bluetooth BLE mode

Note: Scan above barcode to enter the bluetooth searching state

## Operating Mode

In normal mode, the scans are uploaded directly to computer via USB cable or wireless connection. If succeeds, barcode scanner will make a low-frequency short tone. If it fails, there will be three low frequency short tones to alarm. In normal mode, if fails, the data will be lost.



Normal Mode

If the transfer range is beyond Bluetooth wireless transfer range , storage mode is suggested, in which scans are stored in internal storage after being scanned

In storage mode, if a barcode is scanned and the scanner will make a short tone and scans are automatically stored in scanner's internal storage.

If the internal storage is full, the scanner will emit three low-frequency short tones to alarm.



Storage Mode

By scan “Total amount of stored barcode” barcode, to check the total amount of scanned barcodes in storage:



Total amount of stored barcode

Upload the stored data by scanning the "Data Upload" barcode. After the data is uploaded, the barcode stored in the barcode scanner won't be automatically deleted. The user can upload the stored data multiple times by scanning "Data Upload" barcode.



Data Upload

Note: When uploading data, please ensure the wireless signal is perfect, or upload after connecting with USB cable

By scanning "Clear Data" to clear the scans in storage, the cleared scans won't be uploaded once cleared. Please confirm whether the scans have been uploaded before clear them.



Clear Data

# Bluetooth Name Change Setting

A. Scan the Bluetooth Name Change Setup Barcode:



Bluetooth Name Change Setup Barcode

B. Scan the user-defined barcode of bluetooth name within 16 characters (Symbology unlimited, letter, number or symbol works). If customer wants to change the bluetooth name as you like it, you should equipped with bar code generator yourself.

For example, Once you make a bar code of Scanner123, the bluetooth name of scanner would be changed as Scanner123 after scanning the bar code you made.



Scanner123

Note: If you reset the configuration to default, the bluetooth name would revert to default.



reset configuration to default

## Hide front and back characters

A: Scan "Hide front character" or "Hide back character" Setting Barcode



Hide front character



Hide back character

B: Scan hide quantity of characters



Hide 1 character



Hide 2 characters



Hide 3 characters



Hide 4 characters





Hide 5 characters



Hide 6 characters



Hide 7 characters



Hide 8 characters

Note: If you want to cancel “Hide front and back characters” operation, please scan barcodes of “Hide front character” or “Hide back character” Setting Barcode again.

## Set Prefix and Suffix Settings

A : Scan the "Allow for Prefix Adding" or "Allow for Suffix Adding" setting barcode



Allow for Prefix Adding



Allow for Suffix Adding

B : Select the Prefix or Suffix you demand from Appendix A

Note: If you want to cancel Prefix or Suffix Adding operation, please scan barcodes of “Allow for Prefix Adding” or “Allow for Suffix Adding” Setting Barcode once more

## **Add time in the prefix or suffix**

A. Scan “Add time in the prefix” setup barcode, so that you can add current time in the front of output data.



Add time in the prefix

B. Scan “Add time in the suffix” setup barcode, so that you can add current time in the back of output data.



Add time in the suffix

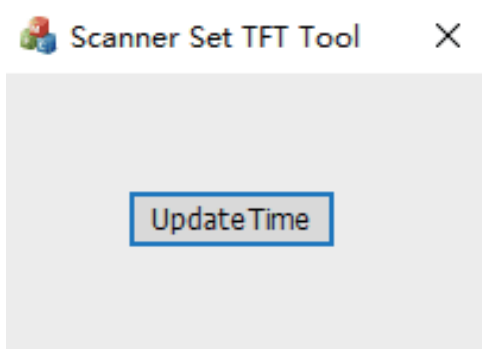
C. Scan “Not add time in the prefix or suffix” so that you can cancel current time in the front or back of the output data.



Not add time in the prefix or suffix

## Time Update Setting

A. Connect the scanner with computer via USB, and switch on the scanner. Click on the time update tool Update\_time\_V1.0, as below :



B: Click on time update button and it can be synchronized with computer time.

C. Time Update Tool-Update\_time\_V1.0

Please blowse <https://share.weiyun.com/5nd8h4f> to download (scan blow QR code to enter into download link. )



## Barcode scanner display commodity barcode, name, and specification (price) setting:

A.The barcode scanner supports 2000 sets of commodity barcode, name and specification(price) storage.

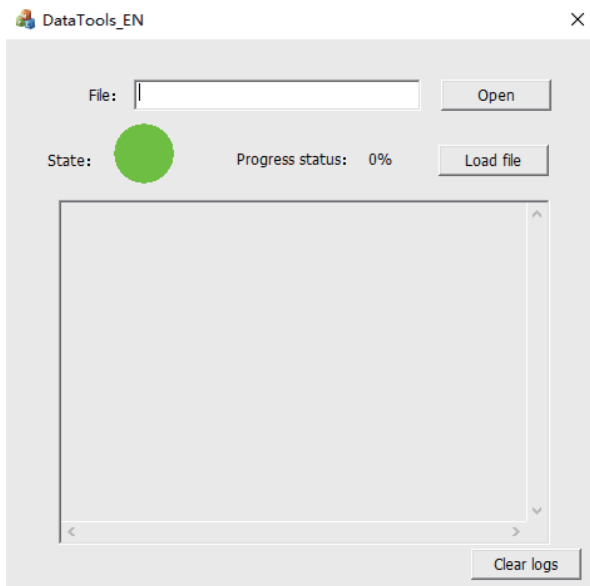
B.Because the commodity codes are all 13-bit, so the current scanner only supports 13-bit commodity codes.Each bar code must be 13-bit barcode, otherwise the corresponding information will not be read. (If you need lead-in other bits barcode please contact vendor)

C.File format:make as Excel sheet. The first column is required to be barcode,otherwise the corresponding idata will not be read, the second column must be commodity name, and third one price ,check as sheet below:

	A	B	C
1	Barcode	Commodity Name	Price
2	9556089885201	Faber Castell dust free eraser 1pc	1
3	9556939290124	DOL-S10 Staples 1pc	2
4	2112345678917	Pantene Shampoo 300ml	3

D.Make the data relative in the Excel, save as “text file (tab delimited)” format. So a TXT file would be generated.

E.Connect the scanner with computer via USB, and switch on the scanner. Click on the generative tool DataTools\_EN\_V1.1, as below :



F. Click on “open” button, select the “text file (tab delimited)” TXT file just saved and click on loading file. Please don’t touch the barcode scanner when loading, in case for loading failure. If you fail to load please load again.

G. There is a indicator led light which would be yellow once click on start; If the tool load successfully, it would turn to green; If any error, it would become red. After finish please double click on the button and exit from load mode.

H.DataTools\_EN\_V1.1 Generative software

Please blowse <https://share.weiyun.com/5nd8h4f> to download  
(scan blow QR code to enter into download link. )



## Appendix A:



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EO T



EN Q



AC K



BEL



Back Space



Tab



LF



VT



FF



**CR**



**F1**



**F2**



**F3**



**F4**



**F5**



**F6**



**F7**



**F8**



**F9**



**F10**



**F11**



**F12**



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DEL



## FAQ

### ► What should I do if I can not pair scanner with Bluetooth devices?

**A.** Please make sure that scanner is in the matching state under corresponding bluetooth protocol

**B.** If the device has connected successfully with other barcode scanner via bluetooth, or other devices. Please delete the bluetooth connection record before connecting.

**C.** The wireless module has been damaged

### ► Why some symbologies fail to be read?

The scanning module does not support the symbology or the symbology has been turned off, please contact with the vendor to turn on the code system.

### ► Why scans fail to be uploaded to computer or smartphone ?

**A.** Please make sure if they have been successfully paired, if yes, the LED indicator of the bluetooth barcode scanner is blue.

**B.** Please check if it is in "Storage Mode". (In "Storage Mode" scans won't be uploaded automatically, please scan "Data Upload" setting code manually to upload the scan is required)

**C.** Please switch to "Normal Mode" to scan and upload simultaneously.

**D.** The wireless module has been damaged

### ► Why the barcode content is not correct?

Please make sure that the PC or smartphone keyboard language is the same as Barcode Scanner language.

### ► Why does the scanner cannot charge?

**A.** Please select correct charger.

**B.** The charging circuit or battery has been damaged.

### ► How to change more scanning settings?

Please contact your barcode scanner vendor.

## Buzzer

Sound Type	Description
a long sound (First low then high frequency)	Means power on
a long sound (First high then low frequency)	Means power off
a short sound ( low frequency )	Means read barcode
a short sound (First low then high frequency)	Means data has been stored
a short sound (First high then low frequency)	Means scan the set-up barcode
a short sound (low frequency)	Means wireless transmission failed or cache is full

During normal usage or start-up process,if the buzzer continuously makes five times long sound(low frequency) ,then automatically power off. It means the power capacity is too low and need to be charged before use.





Electric Quantity Display