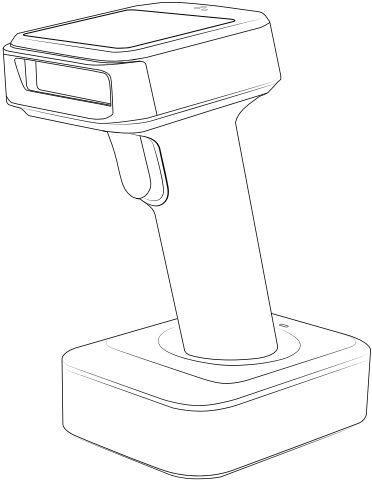
TFT Screen Intellectual Wireless Barcode Scanner

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 protocal 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 safty 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/Windwos
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,
Code93,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,DataMatrix,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

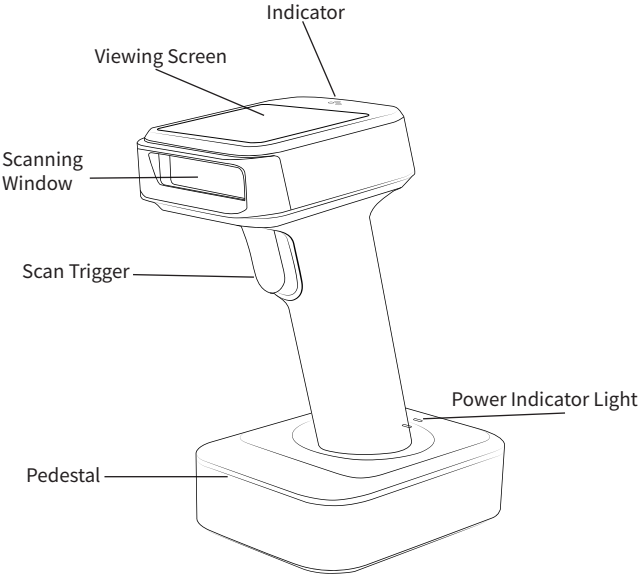
Working Temperature: 32°F to 104°F/0°C to 40°C
Storage Temperature: -40°F to 140°F/-40°C to 60°C
Humidity: 5% to 95% relative humidity (no condensation)
Ruggedness: Resist about 6 times drops from 1.5m to concrete ground
Ambient Light Immunity: Under normal office and factory ambient lighting conditions, 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


Indicator
Viewing Screen
Scanning Window
Scan Trigger
Power Indicator Light
Pedestal

Discription of Viewing Screen

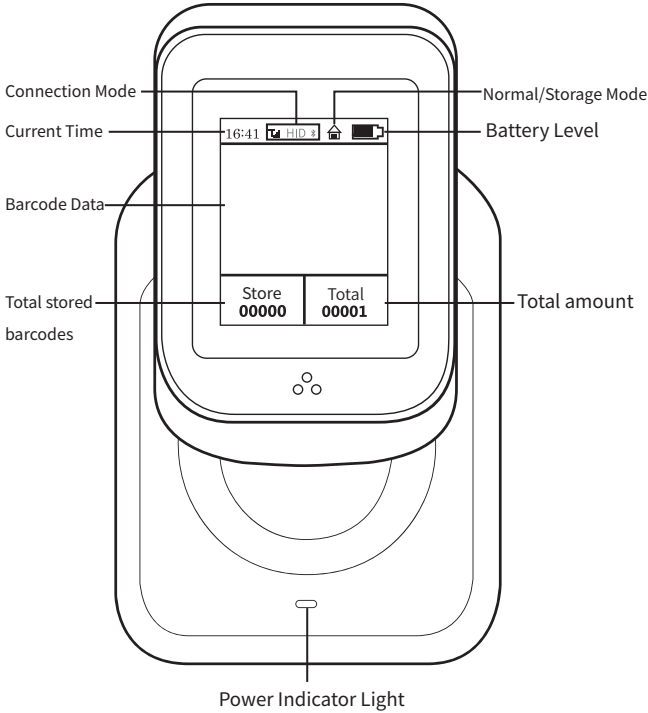
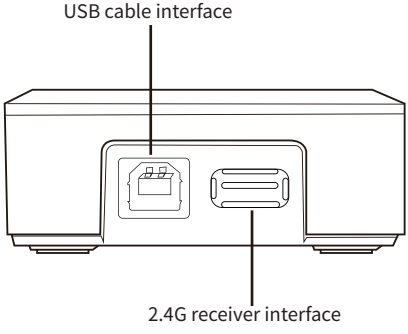
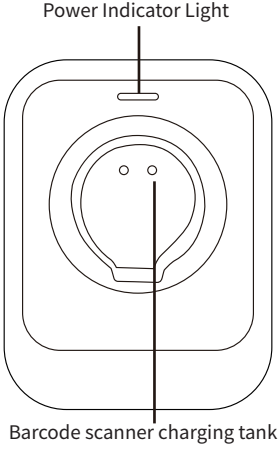


diagram of base side(Option)





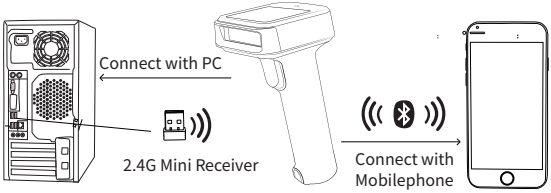
Several methods of application

Use scanner alone:

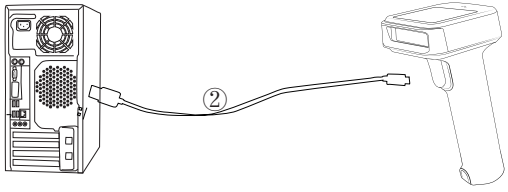
A:When using 2.4G feature,you can match desktop PCs or PC terminals that do not support Bluetooth.Scanner supports systems such as XP, Win7, Win8, Win10,etc.

(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)

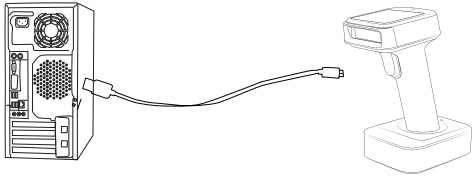


C:Plug in the data cable with the USB end connected to the computer, you can charge the scanner and use it as wired scanner synchronously



Use scanner with pedestal together：

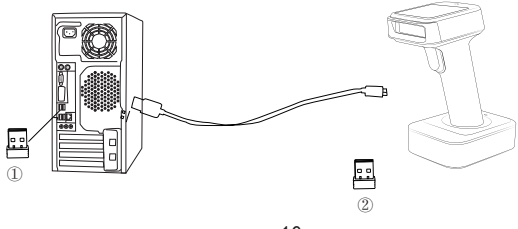
A：A:Charge the base: Connect base with PC via USB cable, the base will work as a charger.When turn off the scanner and put it on the base, the base can charge the scanner.(Bluetooth and 2.4G mode available)



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 ficker 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 ficker 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(Option)

Turn On the Vibration(Option)

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 protocal

Select the bluetooth protocal 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 scannner will make a low-frequency short tone. If it fails, there willl 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.

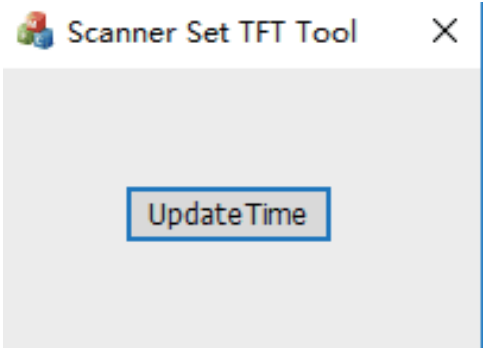
Add time in the suffix

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.

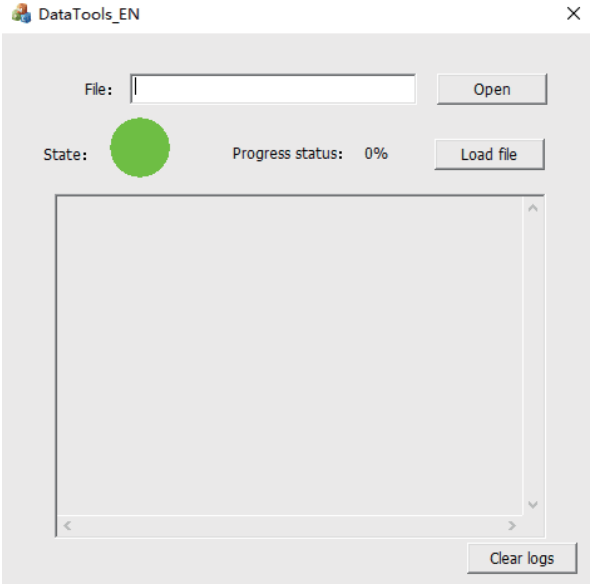
B.Because the commodity codes are all 13-bit, so the current scanner only supports 13-bit commodity codes.Each bar code must be 13-bit barcode, otherwise the corresponding information will not be read. (If you need lead-in other bits barcode please contact vendor)

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:

SO H

^B

^C

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

SU B

Esc

空格

%

FS

!

&

GS

"

'

RS

#

(

US

)

$

.

2

*

/

3

+

0

4

,

1

5

-

6

7

8

9

:

;

<

=

>

?

@

A

B

C

D

E

F

G

H

I

J

K

L

M

N

O

P

Q

R

S

X

\

T

Y

]

U

Z

^

V

[

_

W

`

a

b

c

d

e

f

g

h

i

j

k

l

m

n

o

t

x

p

u

y

q

v

z

r

w

{

s

|

}

~

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 devices 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 fails to be uploaded to computer or smartphone ?

A. Please make sure if they have been sucessfully 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