

2.4G/Bluetooth Wireless Barcode Scanner

User 's manual

BROCHURE

Please read this manual carefully before installing and using the scanner

Notices

1. Please read the user manual carefully before using this product.
2. The working voltage of this barcode scanner is 3.3V, charging voltage 5V. Please use our original USB cable to ensure the scanner work properly.

3. Copyright and Patent Right

Our company has applied for patent rights, copyrights and software copyrights for this product and its accessories(including hardware, setting software, documentations,appearance,etc.)

4. OThe company reserves all rights and the company reserves the right to make any changes to the product to improve its reliability, improve its function or design. The company shall not be responsible for any product liability related to or arising from the application or use of any products, circuits, or other applications described herein.

5. Package List (Optional):

Standard configuration of the wireless scanner

①Base Mode:1*Base,1*Barcode Scanner,1*User Manual,1*USB Cable

②Stand Mode:1*USB Cable,1*User Manual,1*Wireless Dongle,
1*Stand,1*Barcode Scanner

2.4GHz wireless transmission distance:30 meters (Indoor);

Up to 100 meters(Outdoor)

6. The contents of this manual are subject to change without prior notice.

Contents

1.Notices.....	1
2.Introduction&Features.....	3
3.Application&Parameters.....	4
4.Working Environment&Related Regulations.....	5
5.Outside Introduction.....	6-8
6.Connections Introductions.....	9-11
7.Initialization Settings&Version Information.....	12
8.BluetoothPairing Method.....	12
9.Pull up/Hide keyboard(IOS system)&Caps Lock Switch&Caps Lock Switch..	13
10.2.4G Wireless Pairing Method.....	14
11.Sound/Vibration Setting.....	15
12.Sleep Time Setting.....	15
13.Ending Character Setting.....	16
14.Keyboard Language Setting.....	17-18
15.Bluetooth transfer speed settings.....	19
16.Bluetooth Protocal.....	19
17.Settings of 2.4GHz transmission speed.....	20
19.2.4GHz virtual serial port mode.....	21
20.Working Modes.....	22-23
21.Change Bluetooth Name.....	24
22.Hide Pre-characters/Post-characters.....	25-26
23.2.4G Wireless COM-Port Mode Setting.....	27
24.AppendixA:Controlled Characters.....	28-30
25.AppendixB:Displayable Characters.....	31-34
26.FAQ (Frequently Asked Questions)	35
27.Buzzer description.....	36
28.LED indicator.....	36

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

★ Compatibility design

Supports standard AAA (No. 7) alkaline batteries and rechargeable AAA nickel hydrogen batteries. Users can flexibly choose disposable batteries or environmentally friendly rechargeable batteries according to their needs.

★ Convenient maintenance design

Adopting a detachable battery compartment structure, users can quickly replace batteries without tools, extending the service life of the equipment while reducing long-term usage costs.

★ Diversified charging solutions

Wire Charging Direct Connection: Connect the Type-C charging cable to the computer's USB port or power adapter for charging

Base charging: Place the device on a dedicated scanning base to achieve a wireless charging experience of plug and play charging

Independent charger: optional multi port offline charger, supports charging multiple devices or backup batteries simultaneously

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

Parameters

Wireless protocol: bluetooth 2.4G

Memory: 16Mb

Processor: ARM Cortex 32bits

Bluetooth version: Bluetooth 5.0Module

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, DataMatrix, PDF417, Aztec, Hanxin ,

Micro PDF417(option)

Indicator: Led、 Buzzer、 Vibrator(option)

Battery capacity: 800mA

Charging voltage/current: 5V/1A

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

Charge time: ≤ 6hours

Standby: >30days

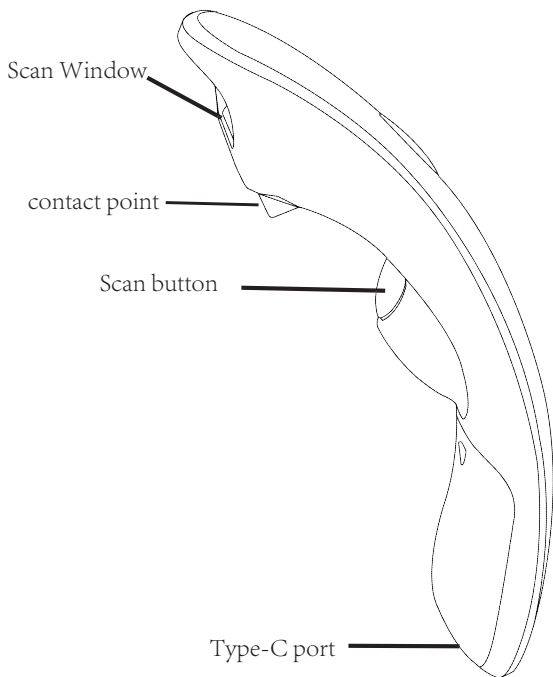
Working Environment

- Working Temperature: 32° F to 104° F / 0° C to 40° C
- Storage Temperature: -40° F to 140° F / -40° C to 70° 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

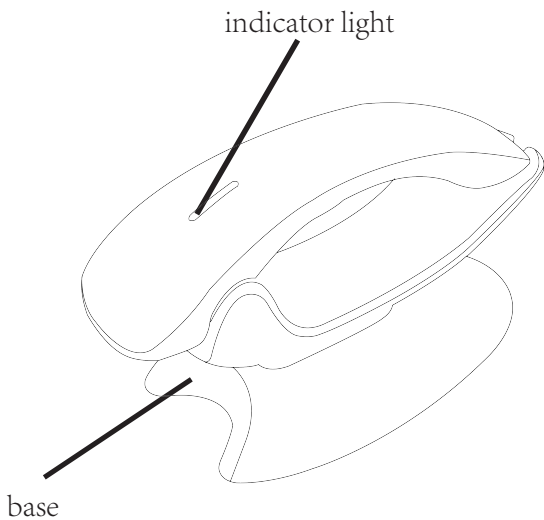
Related Regulations

- 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

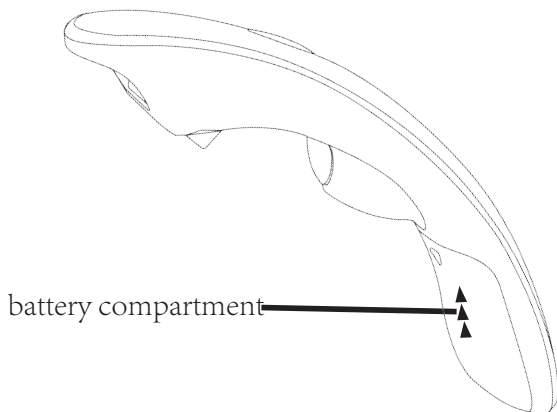
Outside Introduction



1. Base mode diagrammatic sketch



2. Stand mode diagrammatic sketch (Optional)



Note: When using a No. 7 battery, do not plug in the power cord or use the base for charging.

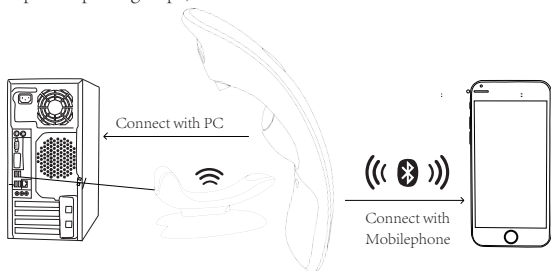
Connections Introductions

When using barcode scanner alone

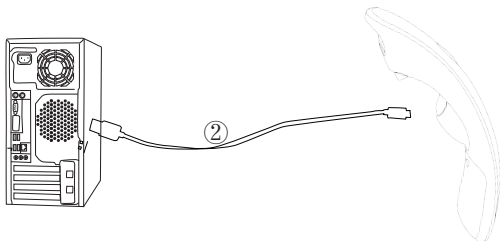
A: When using 2.4G feature, you can match desktop PCs or PC terminals that do not support Bluetooth. Scanner supports systems such as XP, Win7, Win8, Win10, etc.

(Please refer to page 14th 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 12 th 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

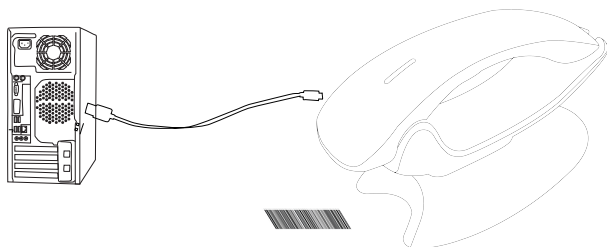


1.Base mode scanner using method

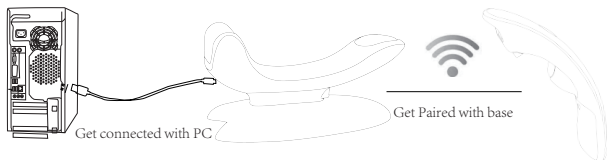
When using the base mode scanner, please make the scanner and base which built in 2.4GHz wireless dongle connected first.

(Refer to page 14 for specific pairing steps)

1.When scanner is placed on the base,it can be charge and scanned automatically at same time



2.When scanner is held on your hands,it will be turned into trigger mode automatically and scanning by pressing trigger



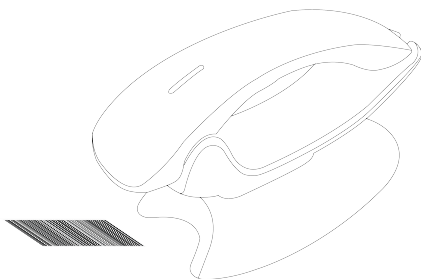
3.2.4GHz wireless transmission distance:30 meters (Indoor);

Up to 100 meters(Outdoor)

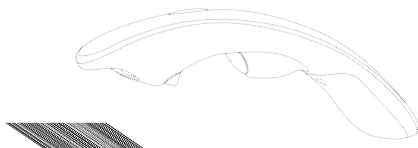
2. Stand mode scanner using method

Stand mode scanner using method

1. When scanner is placed on the stand, it will be turned into auto-sense scanning mode
2. When scanner is held on your hands, it will be turned into trigger mode



Auto-sense mode



Trigger mode

Initialization Settings&Version Information

A: You can scan the setting code “Initialization Settings” to make the scanner back to factory default settings

B: If you have after-sales problems and need to contact our customer service staff, please provide version information by scanning setting code “Version Information”



Initialization Settings



Version Information

BluetoothPairing Method

A: Long press the trigger for 8 seconds or scan the HID Pairing Setting Code to make the scanner entering Bluetooth pairing state, then the two blue lights flash alternately left and right.



Bluetooth Pairing Setup Code

B: Turn on Bluetooth searching in the user's device, find Bluetooth scanner 'Barcode scanner HID' and click on to start the pairing state. After a beep prompt sound, the scanner is paired successfully, and the blue light on the right is always on.

Notes: When the scanner is entered bluetooth pairing status and it does not get connected with your device within 1 minutes,it will beep twice lowly and longly.You need to repeat above-mentioned 3 steps to make it connect with you device.(When the scanner is in the bluetooth pairing status, double-click can make it exit the pairing mode).

Pull up/Hide keyboard(IOS system)& Caps Lock Switch



Pull up/Hide IOS keyboard



Double-Click to Pull up IOS keyboard



Double-Click to Hide IOS keyboard

Caps Lock Switch



All Lowercase



All Uppercase



Do not convert case



Case Interchange

2.4G Wireless Pairing Method:

A: Scan the setting code of Dongle.



B: Scan the setting code Forced Pairing with Dongle, The scanner will enter pairing state, and the blue light on the left flashes quickly.



C: Insert Dongle into the device, after a beep prompt sound, the scanner is paired successfully, and the blue light on the right is always on.

Notes: When the scanner is entered 2.4G pairing status and it does not get connected with your device within 1 minutes, it will beep twice lowly and longly. You need to repeat above-mentioned 3 steps to make it connect with your device. (When the scanner is in the 2.4G pairing status, double-click can make it exit the pairing mode).

Notes: one 2.4G wireless dongle can accept the data from multiple scanners. (It is recommended below 8 scanners of the same type) (Eg: First scanner get connected with wireless dongle through ABC steps, then pull out the wireless dongle from your device, and repeat ABC steps to get connected with second scanner, so does third scanner same).

Sound/Vibration Setting



Sound OFF



Sound ON



Vibration OFF(optional)



Vibration ON(optional)

Sleep Time Setting



1 min



5 min



10 min



30 min



Never Sleep



Sleep Immediately

Ending Character Setting



Add CR(Carriage Return)



Add LF(Linefeed)



Add CR+LF



Cancel CR+LF



Add TAB

Keyboard Language Setting



English(USA)



German



French



Spanish



Italian



Japanese



International Universal Keyboard



Belgian



Portuguese



English(UK)



Portuguese(Brazil)



French(Switzerland)



Russian



Czech



French(Canada)



Hungarian



Polish



Sweden / Finland



Spanish(Mexico)



Argentine(Latin America)



Norwegian



German(Switzerland)

Bluetooth transfer speed settings

Select the corresponding transmission speed according to the receiving speed of the Bluetooth



Fast



Middle



Slow



Super Slow

Bluetooth Protocol



Bluetooth HID



Bluetooth SPP



Bluetooth BLE

Notes: Scanning any one of above 3 setting codes can make the scanner enter bluetooth pairing status.

Settings of 2.4GHz transmission speed

1.Scanning following setting code"Enter setting"



Enter setting

2.Scanning the following setup codes to select the appropriate transfer speed



Super Fast



Fast



Middle



Slow



Super Slow

Notice:please contact seller if need it transfers data more slowly

2.4GHz virtual serial port mode

1.Scanning setting code"Start Pairing"



2:Scanning setting code"Enter Pairing Mode"LED lights flash



Enter Pairing Mode

3.Insert wireless dongle into USB port of device,when hear one beep,connected successfully and generate a USB-COM port in device

Notice:When scanner on virtual serial port mode,it output virtual serial signal even on wired mode.And driver required in part of PC.

Working Modes

Under “Normal Mode”, the data of the code you scanned will be transferred to your device via bluetooth, 2.4G or USB. A short and low beep shows the data is transferred successfully. If not, the scanner will beep 3 times shortly and lowly.

Under “Normal Mode”, if scans failure, the data you just scanned will be lost.



Normal Mode

Under “Storage Mode”, the data of the code you just scanned will be stored in the scanner. And scanner beeps once shortly and slowly after each scanning. Scanner will beep 3 times after scanning a code if its storage space is full.



Storage Mode

You can check the storage data amount by scanning the following setting code.



Storage Data Amount

Scanning following setting code to upload the data you have scanned to your device via bluetooth, 2.4G wireless or USB.

Notes: Making sure that scanner is got connected with your device.
After uploading data, the data which have been stored in the scanner will not be deleted from the scanner



Upload Data

Scanning following setting code to clear all the data which is stored in the scanner. All data will be deleted after scanning setting code "Clear Data", so please confirm that you have uploaded those data to your device if you need them.



Clear Data

Change Bluetooth Name

1st: Scanning following setting code” Change BT Name”



Change BT Name

2nd: Scanning a customized codes which its data is the name you want. You can generate a customized code via barcode generator,like label shop. Or you also can contact with us to generate a code for you. For example: Folowing barcode’ s data is “Scanner123” ,after you scanned it,the bluetooth name of your scanner will be changed to “Scanner123” .



Scanner123

3rd: Scanning following setting code to set the name as default.



Save Setting

Hide Pre-characters/Post-characters

1st: Scanning following setting code “Hide Pre-characters” or “Hide Post-characters”



Hide Pre-characters



Hide Post-characters

2nd: Choosing how many characters you need to hide.



1



2



3



4



5



6



7



8



9



11



13



15



10



12



14



16

Notes: If you need to cancel hiding characters setting, you can scan following setting code



Cancel Hiding Pre-characters



Cancel Hiding Post-characters

2.4G Wireless COM-Port Mode Setting

Step1: Scanning setting code “COM-Port Mode”



COM-Port Mode

Step2: Scanning setting code “Enter Pairing Mode”



Enter Pairing Mode

Step3: Insert the 2.4G wireless receiver into USB port in your device. One beep shows that scanner and receiver connected. And it will generate a COM port in your device.

Notes: When the scanner is entered 2.4G COM-Port Mode pairing status and it does not get connected with your device within 1 minutes, it will beep twice lowly and longly. You need to repeat above-mentioned 3 steps to make it connect with your device. (When the scanner is in the 2.4G COM-Port pairing status, double-click can make it exit the pairing mode).

Once you scan 2.4G COM mode, the scanner is under virtual COM port even it is connected by USB cable.

Enable/Disable HID Searching by Pressing Scan Button 8S Settings



Enable



Disable

AppendixA:Controlled Characters

Decimal	ASCII	Character Set 0	Character Set 1	Character Set 2	Character Set 3	Character Set 4	Setting Code
1	SOH	NULL	Home	Ctrl+A	Alt+001	CR	
2	STX	Ctrl+B	End	Ctrl+B	Alt+002	Cap Lock	
3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	Right Arrow	
4	EOT	NULL	Down Arrow	Ctrl+D	Alt+004	Up Arrow	
5	ENQ	NULL	Left Arrow	Ctrl+E	Alt+005	NULL	
6	ACK	NULL	Right Arrow	Ctrl+F	Alt+006	NULL	
7	BEL	NULL	Shift+Tab	Ctrl+G	Alt+007	Enter	
8	BS	Back Space	Back Space	Back Space	Alt+008	Left Arrow	
9	HT	Tab	Tab	Tab	Alt+009	Tab	
10	LF	Enter	Enter	Ctrl+P	Alt+010	Down Arrow	
11	VT	NULL	NULL	Ctrl+Q	Alt+011	Tab	
12	FF	NULL	NULL	Ctrl+R	Alt+012	delete	
13	CR	Enter	Enter	Enter	Alt+013	Enter	

Decimal	ASCII	Character Set 0	Character Set 1	Character Set 2	Character Set 3	Character Set 4	Setting Code
14	S0	F1	Page Up	Ctrl+N	Alt+014	Insert	
15	S1	F2	Page Down	Ctrl+O	Alt+015	Esc	
16	DLE	F3	F11	Ctrl+P	Alt+016	F11	
17	DC1	F4	NULL	Ctrl+Q	Alt+017	Home	
18	DC2	F5	NULL	Ctrl+R	Alt+018	Print Screen	
19	DC3	F6	NULL	Ctrl+S	Alt+019	Back Space	
20	DC4	F7	NULL	Ctrl+T	Alt+020	Shift tab	
21	NAK	F8	F12	Ctrl+U	Alt+021	F12	
22	SYN	F9	F1	Ctrl+V	Alt+022	F1	
23	TB	F10	F2	Ctrl+W	Alt+023	F2	
24	CAN	F11	F3	Ctrl+X	Alt+024	F3	
25	EM	F12	F4	Ctrl+Y	Alt+025	F4	
26	SUB	NULL	F5	Ctrl+Z	Alt+026	F5	
27	Esc	Esc	F6	Ctrl+[	Alt+027	F6	

[illegible]

Appendix B: Displayable Characters

Decimal	ASCII	Setting Code
32	Space	
33	!	
34	"	
35	#	
36	\$	
37	%	
38	&	
39	'	
40	(	
41	)	
42	*	
43	+	
44	,	

Decimal	ASCII	Setting Code
45	-	
46	.	
47	/	
48	0	
49	1	
50	2	
51	3	
52	4	
53	5	
54	6	
55	7	
56	8	
57	9	

Decimal	ASCII	Setting Code
58	:	
59	;	
60	<	
61	=	
62	>	
63	?	
64	@	
65	A	
66	B	
67	C	
68	D	
69	E	
70	F	
71	G	

Decimal	ASCII	Setting Code
72	H	
73	I	
74	J	
75	K	
76	L	
77	M	
78	N	
79	O	
80	P	
81	Q	
82	R	
83	S	
84	T	
85	U	

Decimal	ASCII	Setting Code
86	V	
87	W	
88	X	
89	Y	
90	Z	
91	[	
92	\	
93	]	
94	^	
95	_	
96	`	
97	a	
98	b	
99	c	

Decimal	ASCII	Setting Code
100	d	
101	e	
102	f	
103	g	
104	h	
105	i	
106	j	
107	k	
108	l	
109	m	
110	n	
111	o	
112	p	
113	q	

Decimal	ASCII	Setting Code
114	r	
115	s	
116	t	
117	u	
118	v	
119	w	
120	x	
121	y	
122	z	
123	{	
124		
125	}	
126	~	
127	DEL	

[illegible]

FAQ (Frequently Asked Questions)

- ▶ What should I do if the scanner can not pair with my bluetooth device?
 - A.Making sure the scanner is in the pairing state under the required 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 can not the scanner read some codes?
 - A.The scan engine does not support that code type or disabled defaultly
You can contact with us to enable it.
- ▶ Why can not the scanner transfer data to my device when they are connected?
 - A.Please confirm if the scanner is under“Storage Mode”,you need to turn it to“Normal Mode”or scanning setting code“Upload Data” to transfer data to your device.
 - B.The wireless module may has been damaged.
- ▶ Why does the data which show in my device is not the same as code?
 - A.Please confirm that if the keyboard language of the scanner is the same as your devices’ .
- ▶ Why can not the scanner charge?
 - A.Please choose the correct charge head and charge cable.
 - B.Charging circuit or battery may has been damaged.
- ▶ How to make more settings?
 - Please contact with us for more settings.

Buzzer description

Buzzer Proformancc	Introduction
one/long beep low to high frequency	power on
one/long beep high to low frequency	power off
one/short beep low frequency	read a code under normal mode
one/short beep low to high frequency	read a code under storage mode
one/short beep high to high frequency	read a setting mode
three/short beeps low frequency	transfer failure or storage space is full

LED Light Introduction

LED Light Proformance	Introduction
Red light stays on	Enters the charging state
Red light off	Charging has ended
Blue light off	Scanner disconnected with wireless dongle
Blue light flash	Get into bluetooth pairing mode
Blue light ON	Connected successfully,using normally
Blue light flash once	Scanning barcode successfully



Battery Display

