

Wireless Scanning and Payment All-in-One Device

User 's manual

BROCHURE

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 Includes:

Standard Package: : Barcode scanner (1 piece),
WIFI dongle (1 piece),
USB cable (1 piece),
User manual (1 piece).

Optional Accessory: Base

Optional Function: Vibration

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

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Introduction

The series of barcode scanner produced by our company feature as strong light source, enhanced long-distance scanning technology. It can read the damaged, stained and poor printed barcode fast under different 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 in the noisy industrial environment.

Features

1. Support wired, 2.4G wireless and bluetooth transmission protocols.
2. Bluetooth 4.1 module: support HID, SPP and BLE multiple protocols. And support customized development. Outdoor 20 meters visual transmission distance.
3. Long-distance 2.4G module, Outdoor 100 meters visual transmission distance.
4. Support online transmission, off-line storage and it can store 50000 barcodes.
5. Pedestal installed with 2.4G wireless receiver. When the scanner is charged on the pedestals, the pedestals can be used for scanning and payment.
6. Support Windows xp, Win7, Win8, Win10 systems, Android devices and IOS devices.
7. Adopting imported trigger button, long lifespan and fitting perfectly in your hand for comfortable use.

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 Android、IOS、Linux、windows98 and above operating systems and bluetooth protocol.
- * Support multi-national keyboard language.

Parameters

Wireless transmission protocol: Bluetooth Protocols and 2.4GHz wireless protocols.

Storage: 16Mb.

Decoding chip: ARM Cortex 32 bits.

Bluetooth version: Bluetooth 5.0 Module.

Support bar code :

1D: Codabar, Code 11, Code 93, MSI, Code 128, UCC/EAN-128, Code 39, EAN-8, EAN-13, UPC-A, SBN, Industrial 25, Interleaved 25, Standard 25, 2/5 Matrix.

2D: QR, Data Matrix, PDF417, Aztec, Hanxin, Micro PDF417 (Optional)

Indicator: LED light、Buzzer、Vibration (Optional)

Battery Capacity: 1100mA.

Charging voltage /current: 5V/1A.

Time of Endurance: 1D ≤ 20H 2D ≤ 12H (5seconds/scan) .

Charging Time: ≤ 3hours

Standby time: >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 60° C.

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

Ruggedness: Resist about several 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.

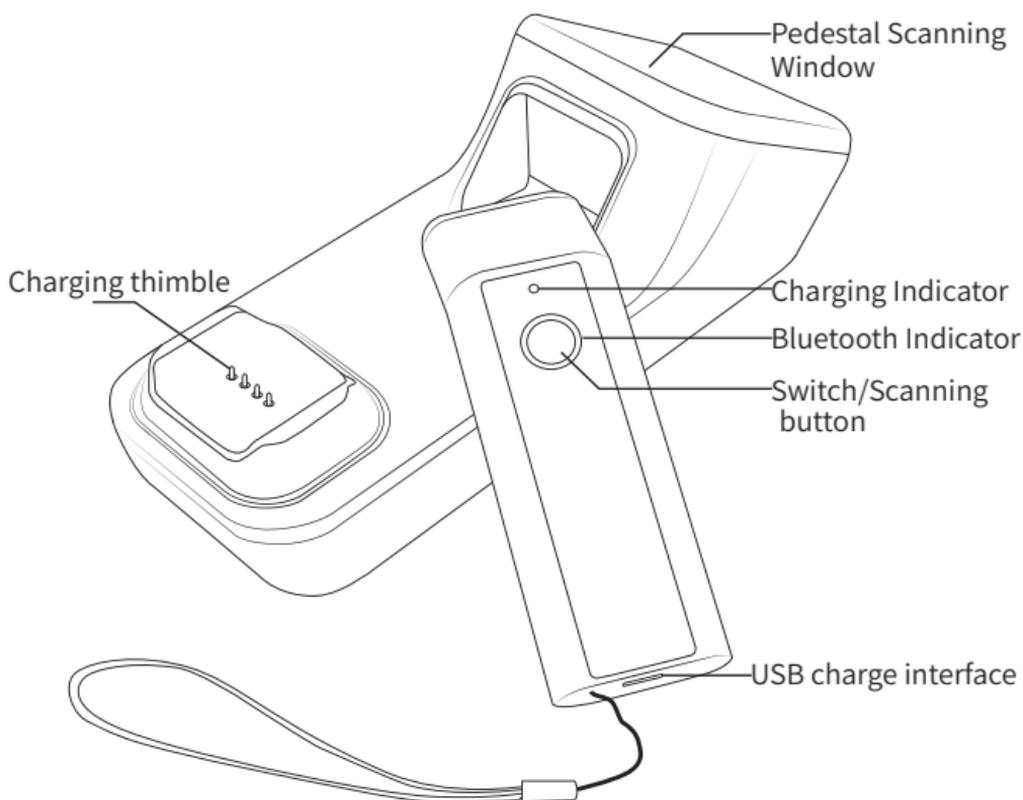
Electrostatic discharge: In line with 15KV air discharge and 8KV contact discharge requirements.

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



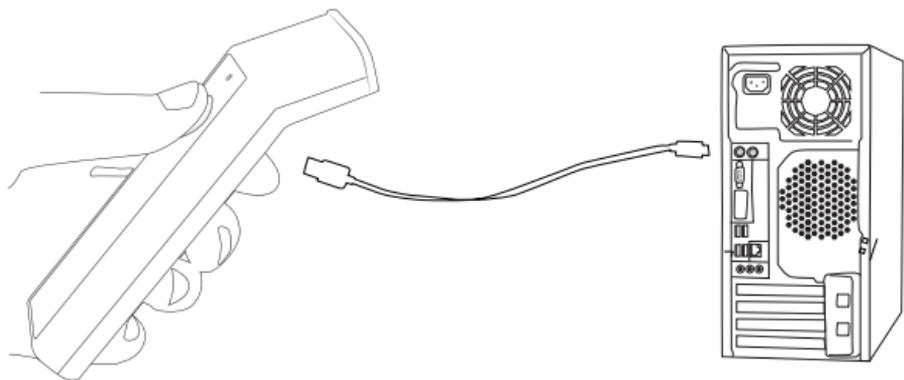
Connections Introductions

A. When use the scanner alone:

1. The barcode scanner only supports bluetooth protocols, which is compatible with Android, IOS system and PC terminals with bluetooth. (Please refer to page 9).



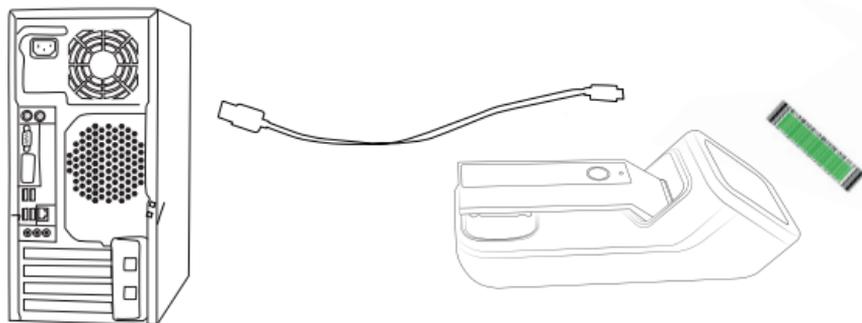
2. Connect USB Type-C end with scanner, and other side with PC. You can charge the scanner and use for wired barcode scanner at the same time.



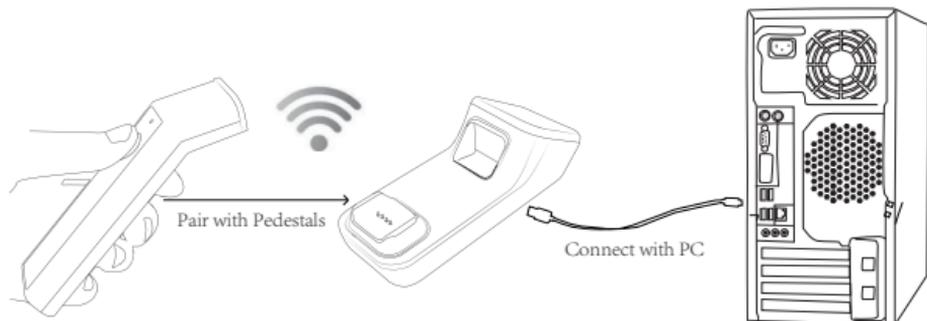
B. When used along with the pedestal:

The pedestals mode have desktop mode and handheld mode. When you use the pedestals, please pair the scanner with mini-receiver installed in the pedestals.

1. Desktop mode: Put the barcode scanner with pedestals on the desk. When you charge the scanner you can use the pedestals scanning window for scanning. (Please refer to page 11)



2. Handheld mode : Hold the barcode scanner, and connect the pedestals with PC terminals which is installed with the wireless 2.4G mini-receiver module. Indoor transmission distance 30 meters. Outdoor transmission distance 100 meters.



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 1minutes,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 you device. (When the scanner is in the 2.4G pairing status, double-click can make it exit the pairing mode).

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)



French



Italian



International Universal Keyboard



Portuguese



Portuguese(Brazil)



German



Spanish



Japanese



Belgian



English(UK)



French(Switzerland)



Russian



French(Canada)



Polish



Spanish(Mexico)



Norwegian



Czech



Hungarian



Sweden / Finland



Argentine(Latin America)



German(Switzerland)

Transmission Speed Setting

Choosing the transmission speed according to the receiving speed of the device



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.

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 show 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 lost.



Normal Mode

Under “Storage Mode” ,the data of the code you just scanned will be stored in the scanner.And scanner beep 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 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



Entering No Loss Mode

Note: The no loss mode can ensure no loss under 2.4G and virtual Bluetooth, Bluetooth HID/SPP/BLE is not recommended to use the no loss mode as the receiving end is not controlled.

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



3



5



7



2



4



6



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

Add Time As Prefix or Suffix

A. Scanning setting code “Add Time as Prefix”, then there is scanning time in front of barcode data.



Add Time as Prefix

B. Scanning setting code “Add Time as Suffix”, then there is scanning time behind barcode data.



Add Time as Suffix

C. If you do not need scanning time as prefix or suffix, you can scan following setting code “Cancel Setting”.



Cancel Setting

Update Time

1. Run the Web as below:

 jquery.min	2020-06-03 3:04 PM
 jquery.qrcode.min	2020-06-03 3:04 PM
 JsBarcode.all.min	2020-06-03 3:04 PM
 Scanner QR and BarCode Time Adjust	2020-06-03 3:12 PM

2. Scan Below codes to Calibrate Time of Scanner.



Notes: “Scanner Time Setting Offline Web Version” program can be downloaded in website:

<https://symcode.cn/public/upload/Scanner%20Time%20Setting%20Offline%20Web%20Version.rar>

or scan QR-code below



Prefix/Suffix Setting

The setting prefix and suffix is divided into two parts, displayable characters and controlled characters

1st Part: Displayable characters

Step1: Scanning following setting code “Add Prefix” or “Add Suffix”



Add Prefix



Add Suffix

Step2: Finding the character which you need to add as prefix or suffix in appendix B, and scanning the barcode corresponding to the character.

2nd Part: Controlled Characters

Step1: Finding the character which you need to add as prefix or suffix in appendix A, and scanning the barcode corresponding to the character set.



Character Set 0



Character Set 1



Character Set 2



Character Set 3



Character Set 4

Step2: Scanning following setting code “Add Prefix” or “Add Suffix”



Add Prefix



Add Suffix

Step3: Finding the character which you need to add as prefix or suffix in appendix A, and scanning the barcode corresponding to the character.

Notes: Scanning following setting code if you need to cancel prefix and suffix setting



Cancel Prefix Setting



Cancel Suffix Setting

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 show 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

2.4GHz Wireless Transfer Speed Settings

Select the corresponding delay time interval according to the receiving speed of the device.



Turn on delay



Turn off delay

Delay time interval setting:



5ms



10ms



20ms



30ms



40ms



50ms

Appendix A: 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	

Appendix B: Displayable Characters

Decimal	ASCII	Setting Code	Decimal	ASCII	Setting Code
32	空格		45	-	
33	!		46	.	
34	"		47	/	
35	#		48	0	
36	\$		49	1	
37	%		50	2	
38	&		51	3	
39	'		52	4	
40	(	53	5	
41)		54	6	
42	*		55	7	
43	+		56	8	
44	,		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	

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 Performance	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

Indicator light color

Blue light flashing
 Red light always on
 Flashing red light
 Blue light on but off immediately

Explanation

Enter HID/BLE/SPP pairing mode
 Charge Full Red Light Off
 No battery detected
 Identify and emit short drip sounds



Battery Display