Wireless Barcode Scanner Setting Manual

Disclaimer

Please read all content of this manual carefully before using product which is described in this manual. This manual is helpful for using product safely. Please keeping well for next use.

Do not dismantle terminal equipment or tear up sealed bidding, otherwise we will do not be responsible for repairing or replacing the terminal.

The pictures in this manual are for reference only. Please refer to the actual product if there is any discrepancy between individual pictures and actual product. For the improvement and update of this product, we reserve the right to modify the document at any time without notice.

Version

Version Number	Description	Data
V1.0	Initial Version	2017-06-07
V1.01	Add National Keyboard Layout	2017-08-16
V1.02	Add virtual Bluetooth function (supported by some products)	2018-04-25
V1.03	Add end character setting and case conversion	2019-02-27
V1.04	Add “Custom default setting” function	2019-03-18
V1.05	Added GS character replacement and display GS hidden characters	2019-04-05
V1.06	Add QR code setting function	2019-04-25
V1.07	Add the function of adding prefixes and suffixes and hidden characters	2019-05-21
V1.08	Added virtual serial port settings	2019-10-25
V1.1	Added multiple national language settings, and added Chinese output settings.	2020-03-13
V1.11	Add virtual Bluetooth pairing steps	2020-05-09
V3.0	Added clock control function, escape character set (supported by wireless version 3.0 and above)	2020-08-01

Note: When the 2.4G wireless scanner is selected separately, the related Bluetooth function is not supported.

Contents

Enter and Exit Set

All the functions of barcode scanner could set by scanning the setting barcodes.

Please scan "enter setting mode" barcode, and scan the function barcode, then scan the "exit setting mode" barcode after finishing setting.

Enter Setting Mode

Exit Setting Mode

Note: Wireless Version 1.18D and later version supports set functions without enter and exit setting mode.

Wireless Factory Default Settings

All scanners have a factory default setting. All the scanner's wireless properties will be set to the default state of the software with scanning the "Restore Wireless Factory Default Settings" setting barcode.

Restore Wireless Factory Default Settings

Instruction:

Use this function as the following situations:

1. Scanner settings are wrong, such as barcodes that cannot be recognized.

2. You forgot what settings you made to the scanner and you do not want to use the previous settings.

3. Some infrequent functions were set and do not want to keep using it.

Custom Default Setting

By setting custom default settings, you can set the default values of the wireless parameters of the wireless barcode device to the required functions. Scan the "Enter Setting Mode" barcode first, then scan the required wireless parameter function, and then scan the "Exit Setting Mode" barcode after the setting is complete. After the setting is completed, the existing functions will replace the original factory default settings, and the wireless settings will not be restored to the original state even if the settings are restored.

Custom Default Setting

Version

Scan the version barcode and you will view the information of current scanners’ firmware version.

Version

Sound Setting

%%SpecCode97

%%SpecCode97

High*

%%SpecCode96

%%SpecCode96

Medium

%%SpecCode95

%%SpecCode95

Low

%%SpecCode94

%%SpecCode94

Close Sound

Frequency

%%SpecCode7C

%%SpecCode7C

2048MHz

%%SpecCode7D

%%SpecCode7D

2730MHz

Vibration

%%SpecCode77

%%SpecCode77

On (optional)

%%SpecCode76

%%SpecCode76

Off (optional)

Note: The vibration function is optional for some products.

Battery Level

Scan the “Battery Level” setting code to check out the current battery status.

%%SpecCode15

%%SpecCode15

Battery Level

Sleep Time

30s

1min

2min

5min*

10min

%%SpecCode35

%%SpecCode35

30min

%%SpecCode36

%%SpecCode36

Never

%%SpecCode38

%%SpecCode38

Sleep Immediately

Data Format

Use the barcode reader wireless 2.4G or wired USB interface to set the data input format, you can directly output Chinese or other format languages, such as if users need output Cyrillic characters after set Russian keyboard layout, please choose Unicode.

GBK（Notepad，Excel, etc）*

Unicode（WORD，QQ, etc）

Wireless Working Mode

The wireless scanner has two different working modes for transmitting data: Real time mode and Storage mode.

Real Time Mode

Real Time Mode is also called default mode. In this mode, the barcode data will be transmitted to the host device immediately, and discarded when disconnected.

Real Time Mode*

Storage Mode

Storage Mode is also called inventory mode or warehouse mode. In storage mode, the scanner will not transmit scanned barcodes data directly to the host device, but store them in the storage memory. If you need to check or clear the stored barcodes, refer to data control section. When the scanner is powered off, the barcodes stored will not get lost unless users scan the barcode Clear All Barcodes Stored.

%%SpecCode11

%%SpecCode11

Storage Mode

Data Control

Data control is used for processing stored data.

Upload All Data

To upload the data stored in the memory, scan the “Upload All Data” barcode to transmit data to computers or mobile devices. In whatever mode, the data stored in the memory will not be deleted when data upload succeeds unless the “Clear All Data” is scanned.

%%SpecCode16

%%SpecCode16

Upload All Data

Upload Total Count

If you wish to output the total number of barcodes scanned, scan the barcode below.

Upload Total Count

Clear All Data

Scan the “Clear All Data” to clear the data stored in the scanner memory. Note: this operation will clear all stored data.

Clear All Data

Communication Setting

This scanner can not only support wireless communication, but also supports wired communication. When the Scanners connected to other device with USB cable, the scanner will automatically switch to wired transmission.

USB-VCom interface 2.4G

USB virtual serial port supports the use of 2.4G mode wireless virtual serial port and wired USB virtual serial port, whether you use wired or wireless virtual serial port, you need to install the virtual serial port driver.

%%SpecCodeAE

%%SpecCodeAE

USB-VCom interface 2.4G

USB keyboard interface 2.4G

It is suitable for devices that can be plugged into a 2.4G receiver, and can directly use text output, which is equivalent to USB keyboard input.

%%SpecCodeA8

%%SpecCodeA8

USB keyboard interface 2.4G

Virtual Bluetooth Mode

Virtual Bluetooth is suitable for connecting to a host without Bluetooth and does not need to install a Bluetooth driver. When using virtual Bluetooth mode, you need to use a dedicated virtual Bluetooth receiver.

Virtual Bluetooth Mode

Bluetooth HID Mode

It is suitable for using in devices that support Bluetooth, such as mobile phones, pads, laptops with Bluetooth, etc. After the connection is successful, you can use direct text input, which is equivalent to the virtual keyboard input method of this type of device.

Bluetooth HID Mode

Bluetooth SPP Mode

It is suitable for use in devices that support Bluetooth, such as mobile phones, pads, laptops with Bluetooth, etc. When using SPP to transparently transmit data, you need to download or develop classic Bluetooth SPP transparent transmission software before it can be used. SPP mode is suitable for mass data transmission.

Bluetooth SPP Mode

Bluetooth BLE Mode

It is suitable for use in devices that support Bluetooth, such as mobile phones, pads, laptops with Bluetooth, etc. When using BLE to transparently transmit data, you need to download or develop low-power Bluetooth BLE transparent transmission software before it can be used. BLE mode is suitable for small amount of data transmission.

Bluetooth BLE Mode

Wireless Pairing

2.4 Wireless Pairing Steps (Dongle Pairing)

Compatible with XP、Win7、Win8、Win10，MAC OS and so on.

Step 1: Scan the "Wireless 2.4G Mode" setting code

When setting the wireless 2.4G mode, it will give priority to connect to the last paired receiver by default.

%%SpecCodeA8

%%SpecCodeA8

Wireless 2.4G Mode

Step 2: Scan the "Forced Pairing" setting barcode to enter the pairing state, and the blue LED1 flashes quickly。

%%SpecCode99

%%SpecCode99

Forced Pairing

Step 3: Plug in Dongle (receiver) and hear a beep, indicating that the connection and pairing is successful. Blue LED2 is keep on.

Note:

When the scanner is in the pairing state, you can exit the pairing state by double-clicking the button twice or the pairing timeout for 1 minute.

Virtual Bluetooth Pairing Steps

Compatible with XP、Win7、Win8、Win10，MAC OS and so on.

Step 1: Scan the "Virtual Bluetooth Mode" setting code

When setting the virtual bluetooth mode, the virtual bluetooth receiver paired last time will be connected first by default。

Virtual Bluetooth mode

Step 2: Scan the "Forced Pairing" setting code to enter the pairing state, and the blue LED1 flashes quickly.

Frced Pairing

Step 3: Plug in Dongle (receiver) and hear a beep, indicating that the connection and pairing is successful. The blue LED2 is always on.

Note:

When the scanner is in the pairing state, you can exit the pairing state by double-clicking the button twice or the pairing timeout for 1 minute.

Bluetooth HID Pairing Steps

Step 1: Scan the "Bluetooth HID Mode" setting barcode

When setting the wireless Bluetooth HID mode, it will give priority to connect to the last paired Bluetooth by default.

Bluetooth HID Mode

Step 2: Scan the "Forced Pairing" setting code to enter the pairing state, and the blue LED1 and blue LED2 flash alternately.

Forced Pairing

Note: Press and hold the scanning button for 8 seconds without releasing it, and then release the button to enter the Bluetooth HID pairing state (this function needs to be enabled).

Step 3: Turn on Bluetooth in the device which scanners will connected, and search for "BarCode Bluetooth HID".

Step 4: Click "BarCode Bluetooth HID" in the device to enter the pairing state.

Step 5: When you hear a beep, it means the connection and pairing is successful, and the blue LED2 is keep on.

Note:

When the scanner is in the pairing state, you can exit the pairing state by double-clicking the button twice or the pairing timeout for 1 minute.

Bluetooth SPP Pairing Steps

Step 1: Scan the "Bluetooth SPP Mode" setting barcode

When setting the wireless Bluetooth SPP mode, it will automatically enter the SPP mode and enter the broadcast state by default. You can directly click the BarCode Bluetooth SPP device in the SPP software to pair。

%%SpecCodeAB

%%SpecCodeAB

Bluetooth SPP Mode

Step 2: Search for "BarCode Bluetooth SPP" in the SPP transparent transmission software.

Step 3: Click the "BarCode Bluetooth SPP" Bluetooth device to enter the pairing state.

Step 4: When you hear a beep, it means the connection and pairing is successful, and the blue LED2 is keep on.

Bluetooth BLE Pairing Steps

Step 1: Scan the "Bluetooth BLE Mode" setting barcode

When setting the wireless Bluetooth BLE mode, it will automatically enter the BLE mode and enter the broadcast state by default. You can directly click the BarCode Bluetooth BLE device in the BLE software to pair.

%%SpecCodeAC

%%SpecCodeAC

Bluetooth BLE Mode

Step 2: Search for "BarCode Bluetooth BLE" in the SPP transparent transmission software.

Step 3: Click the "BarCode Bluetooth BLE" Bluetooth device to enter the pairing state.

Step 4: When you hear a beep, it means the connection and pairing is successful, and the blue LED2 is on.

Bluetooth Mode Function Setting

Press and hold scanning key for 8s to enter HID Mode

When using a Bluetooth barcode scanner, turn on and pressing scanning key for 8 seconds to enter the Bluetooth HID pairing mode.

%%SpecCode79

Enable press and hold scanning key for 8s to enter HID Mode

%%SpecCode78

Disable press and hold scanning key for 8s to enter HID Mode

IOS System HID Virtual Keyboard Setting

When using Bluetooth HID mode to connect to IOS system, scan "Show or hide IOS keyboard" to show or hide IOS keyboard

%%SpecCode1A

%%SpecCode1A

Open/Close IOS Keyboard

Users can also set to quickly show or hide the IOS keyboard. Double-click to display the IOS keyboard function is enabled, the IOS virtual keyboard can be called up by quickly clicking the scanning button.

%%SpecCode7B

%%SpecCode7B

Turn on the double-click scanning key to display the IOS keyboard function (HID mode)

%%SpecCode7A

%%SpecCode7A

Turn off the double-click scanning key to display the IOS keyboard function (HID mode)

Note: For the Android system keyboard display, please contact the supplier to obtain the Bluetooth input method APP (due to the Android system, some mobile phone manufacturers support the virtual keyboard when connected to the Bluetooth scanner)

Bluetooth HID Data Upload Speed Setting

When using Bluetooth HID to connect to a Bluetooth host, the upload data speed of the Bluetooth scanner can be adjusted according to the response capability of the Bluetooth host. If the uploaded data is messy or missing, please lower the speed.

Fast

Medium*

Slow

Very slow

Bluetooth Name

Use the following steps to customize the Bluetooth name of Bluetooth HID, SPP and BLE.

Step 1: Scan the "Custom Bluetooth Name" setting code

%%SpecCodeEC

%%SpecCodeEC

Custom Bluetooth Name

Step 2: Scan the Bluetooth name barcode.

Note: The default name of Bluetooth is "Barcode Scanner". After setting through this step, this barcode will be set to the name of Bluetooth.

a) The name can only be set up to 16 bytes. If the name barcode exceeds 16 bytes, the scanner will only take the first 16 bytes as the Bluetooth name.

b) The complete Bluetooth name includes: Bluetooth name + protocol type, and only supports to modify the Bluetooth name. After modifying the Bluetooth name, the names of all Bluetooth protocols have been changed.

Example: Set the Bluetooth name to: Scanner.

Step 1: Scan the "Custom Bluetooth Name" setting barcode

Custom Bluetooth Name

Step 2: Make and scan the Bluetooth name barcode

Bluetooth Name: Scanner

After setting:

The name of the Bluetooth HID is displayed as: Scanner HID,;

The name of the Bluetooth SPP is displayed as: Scnaner SPP;

The name of Bluetooth BLE is displayed as Scanner BLE.

Get the Bluetooth Name

Get the Bluetooth Name

Note: Only in the Bluetooth HID, SPP, BLE mode can the Bluetooth name be obtained successfully, otherwise it will fail.

National Keyboard Layout

The keyboard, symbols, etc. corresponding to different national languages are not the same. The scanner can be virtualized into different national keyboard standards according to actual needs. The keyboard layout setting is applicable to the HID communication interface mode, and the default is "American English keyboard". **Please also set data format according to the keyboard layout, such as if choose Russian keyboard, please set scanner data format is Unicode(refer to page 15），or the data will messy.**

%%SpecCode40

%%SpecCode40

English

%%SpecCode41

%%SpecCode41

German

%%SpecCode42

%%SpecCode42

French

%%SpecCode43

%%SpecCode43

Spanish

%%SpecCode44

%%SpecCode44

Italian

%%SpecCode45

%%SpecCode45

Japanese

%%SpecCode47

%%SpecCode47

BF - Belgian French

%%SpecCode48

%%SpecCode48

Portuguese

%%SpecCode49

%%SpecCode49

British English

%%SpecCode4A

%%SpecCode4A

German IOS keyboard

%%SpecCode4B

%%SpecCode4B

Brazilian Portuguese

%%SpecCode4C

%%SpecCode4C

Russian

%%SpecCode4D

%%SpecCode4D

Czech

%%SpecCode4E

%%SpecCode4E

Italy 142

%%SpecCode4F

%%SpecCode4F

(Turkey Q)

%%SpecCode50

%%SpecCode50

(Turkey F)

%%SpecCode51

%%SpecCode51

Sweden / Finland

%%SpecCode52

%%SpecCode52

Mexican Spanish

%%SpecCode53

%%SpecCode53

Denmark

%%SpecCode54

%%SpecCode54

Written Norwegian

%%SpecCode55

%%SpecCode55

Croatian

%%SpecCode56

%%SpecCode56

Swiss German

%%SpecCode57

%%SpecCode57

Swiss French

%%SpecCode58

%%SpecCode58

Dutch

%%SpecCode59

%%SpecCode59

Hungarian

%%SpecCode5A

%%SpecCode5A

Polish

%%SpecCode5B

%%SpecCode5B

Canadian French

%%SpecCode5C

%%SpecCode5C

Argentina (Latin American)

%%SpecCode5D

%%SpecCode5D

Slovak

%%SpecCode46

%%SpecCode46

International keyboard

Note: The international keyboard supports all minority languages on the PC side。

Capital/Lower-Case

By setting the character case conversion function of the scanner, the English letters of the scanner output data can be case-converted.

For example: when the content of the barcode is aBC123, set the scanner to "all lowercase", the data obtained by the host will be "abc123". The default is Normal normal output.

%%SpecCodeA5

%%SpecCodeA5

Normal*

%%SpecCodeA4

%%SpecCodeA4

Upper

%%SpecCodeA3

%%SpecCodeA3

Lower

%%SpecCodeA6

%%SpecCodeA6

Inverse

Note: This parameter is only valid in standard keyboard input mode and keyboard emulation input control character mode.

Hidden character GS replacement function

After using the GS replacement function, the hidden character GS can be replaced with other characters, which is convenient for the host device to display. When you need to display hidden GS characters, you can set GS to be replaced with 1D of the ASCII code character table.

Custom GS Replacement

Step 1: Scan the "Custom GS Replacement" setting barcode

Custom GS Replacement

Step 2: Check "Appendix-ASCII code character table" to find the barcode corresponding to the character to be replaced and scan it.

Example:

Replace GS characters with characters that can be displayed” |”

Step 1: Scan the "Custom GS Replacement" setting code.

Step 2: Check the "Appendix-ASCII code character table" to find the barcode corresponding to the "|" character and scan it.

Cancel GS Replacement

Cancel GS Replacement

Custom Prefix/Suffix

This product supports up to 32-byte prefix and 32-byte suffix setting.

Add Custom Prefix

Step 1: Scan “Add Custom Prefix” Setting Code

Add Custom Prefix

Step 2: According to the content that needs to be added, check the "ASCII code character table" and scan the setting code corresponding to the custom prefix in turn.

Example:

Add custom prefix "789"

Step 1: Scan the "Add custom prefix" setting barcode;

Step 2: According to the content that needs to be added, check the "ASCII code character table" and scan the setting barcodes %%37, %%38 and %%39 corresponding to "7", "8", and "9" in turn.

Clear Custom Prefix

Refer to Adding a Custom Prefix Setting; follow the steps below to set it to clear the custom prefix.

Step 1: Scan the "Add custom prefix" setting code;

Step 2: Scan the setting code of "Exit Setting Mode" in "Appendix-Enter/Exit Setting";

Or you can directly scan and restore factory values to clear custom prefixes.

Add Custom Suffix

Step 1: Scan “Add Custom Suffix” Setting Code

Add Custom Suffix

Step 2: According to the content that needs to be added, check the "ASCII code character table" and scan the setting barcode corresponding to the custom suffix in turn.

Example:

Add custom suffix "XYZ".

Step 1: Scan the "Add custom suffix" setting barcode;

Step 2: According to the content that needs to be added, check the "ASCII code character table" and scan the setting barcodes %%78, %%79 and %%7A corresponding to "X", "Y", and "Z" in turn;

Clear Custom Suffix

Refer to the setting of adding a custom suffix and follow the steps below to clear the custom suffix.

Step 1: Scan the "Add custom suffix" setting code.

Step 2: Scan the setting code of "Exit Setting Mode" in "Appendix-Enter/Exit Setting".

Or you can directly scan and restore factory values to clear custom suffixes.

Hide First/Last Characters

Follow the steps below to set the number of digits for hiding the first and last characters, up to 16 digits.

Step 1: Scan the setting barcode of "Hide first characters" or "Hide last characters"

Hide first characters

Hide last characters

Step 2: Scan the barcode corresponding to 01-16 in "Appendix-ASCII code character table" according to the number of the first or last characters that need to be hidden.

Hide 1 character

Hide 2 characters

Hide 3 characters

Hide 4 characters

Clear hidden first/last characters

Refer to the custom setting of hidden leading characters and follow the steps below to clear the hidden leading characters.

Step 1: Scan the setting code of "Hide first characters" or "Hide last characters";

Step 2: Scan the setting code of "Exit Setting Mode" in "Appendix-Enter/Exit Setting";

Or you can directly scan and restore factory values to clear the hiding characters.

Terminator Character

The terminator character is used to mark the end of a complete data message. The terminator must be the last content when a piece of data is sent, and there will be no additional data after that. Choose to scan the appropriate end character to set the barcode according to your needs, the default is Enter.

<CR>(0x0D)*

<LF>(0x0A)

<CR><LF>(0x0D,0x0A)

<HT>(0x09)

%%SpecCode9F

%%SpecCode9F

NONE

Clock Function

The clock function is supported by wireless version 3.0 and above. By setting the clock function, you can set the current time and send it to the output device together with the barcode.

%%SpecCode1B	%%SpecCode1B
Show current time	
%%SpecCodeC1	%%SpecCodeC1
Add time before barcode	
%%SpecCodeC2	%%SpecCodeC2
Add time after barcode	

%%SpecCodeC0	%%SpecCodeC0
None	

Note: The clock function needs to be customized and needs to be supported by a software version above 3.0. The clock function will re-time after the barcoder is shut down. You need to use a tool to synchronize the current time of the computer.

Control character set escape settings

The character table used for adding prefixes and suffixes is divided into two parts, the control character table part and the displayable character table part. The character table can be displayed, mainly ASCII characters with key values greater than 31. This part of characters can generally be output directly through the HID keyboard without escaping.

The control character table is mainly the characters whose key value is less than 32. Most of these characters cannot be directly output from the HID keyboard. They need to be escaped to output from the HID keyboard. This scanner defines 4 escape methods, which can be switched by scanning the code. Customers can set a suitable escape character set according to their needs, the default is the escape character set 0.

%%SpecCodeBA0000	%%SpecCodeBA0000
Escape character set 0*	
%%SpecCodeBA0001	%%SpecCodeBA0001
Escape character set 1	
%%SpecCodeBA0002	%%SpecCodeBA0002
Escape character set 2	

%%SpecCodeBA0003	%%SpecCodeBA0003
Escape character set 3	
%%SpecCodeBA0004	%%SpecCodeBA0004
Escape character set 4	

Note: The character escape function is supported by wireless version 3.0 and above

Appendix-Enter/Exit Settings

Enter setting mode

Exit setting mode

Appendix-LED indicator description

Basic function description of indicator light:

Blue LED2	Used to indicate whether the wireless is connected or not, if it is connected, it is always on, if the connection is disconnected, it will be off.
Blue LED1	The scan barcode indicator light flashes briefly when the barcode is successfully read.
Red LED3	The red light is always on to indicate that it is charging, and the red light is off to indicate that it is fully charged or not connected to charge
Blue light 2 is off, blue light 1 flashes quickly	2.4G/Virtual Bluetooth mode pairing status
Blue light 1 is off, blue light 2 flashes quickly	Pairing status in SPP mode
Blue light 1 and blue light 2 flash alternately and quickly	Pairing status in HID mode
Blue light 1 and blue light 2 flash synchronously and quickly	Pairing status in BLE mode

Blue light 1 and blue light 2 flash synchronously and slowly	The module is in an upgrade state

Note: This part of the lighting description is slightly different according to different product configurations. If you need more information, please contact the supplier.

Appendix-description of buzzer sound

One long tone (low first and then high frequency)	Indicates that the power is on
One long tone (high first and then low frequency)	Indicates that the power is off
One short tone (low frequency)	Indicates that the normal barcode is read, or the pairing is successful, or the wireless connection is successful.
One short tone (low first and then high frequency)	Indicates that the scanned data is stored in the storage area
One short tone (high first and then low frequency)	Indicates that the setting barcode was scanned
Three short tones (low frequency)	Indicates that the wireless transmission failed or the buffer is full
Five short tones (low frequency)	Indicates that the battery is dead

Two short tones (low frequency)	Indicates wireless disconnection
Two short tones (high frequency)	Indicates that the scanned setting code does not work

Appendix-Control Character List

Note: The setting code of the control character table refers to the corresponding setting code of 01-31 in the ASCII character table. **The default setting is character set 0.**

HEX	Decimal	ASCII	character set 0	character set 1	character set 2	character set 3	character set 4
01	01	SOH	NULL	Home	Ctrl+A	Alt+001	Enter on the keypad
02	02	STX	Ctrl+B	End	Ctrl+B	Alt+002	Cap Lock
03	03	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	Right Arrow
04	04	EOT	NULL	Down Arrow	Ctrl+D	Alt+004	Up Arrow
05	05	ENQ	NULL	Left Arrow	Ctrl+E	Alt+005	NULL
06	06	ACK	NULL	Right Arrow	Ctrl+F	Alt+006	NULL
07	07	BEL	NULL	Shift+Tab	Ctrl+G	Alt+007	Enter
08	08	BS	Back Space	Back Space	Back Space	Alt+008	Left Arrow

09	09	HT	Tab	Tab	Tab	Alt+009	Tab
0A	10	LF	Enter	Enter	Ctrl+P	Alt+010	Down Arrow
0B	11	VT	NULL	NULL	Ctrl+Q	Alt+011	Tab
0C	12	FF	NULL	NULL	Ctrl+R	Alt+012	delete
0D	13	CR	Enter	Enter	Enter	Alt+013	Enter
0E	14	S0	F1	Page Up	Ctrl+N	Alt+014	Insert
0F	15	S1	F2	Page Down	Ctrl+O	Alt+015	Esc
10	16	DLE	F3	F11	Ctrl+P	Alt+016	F11
11	17	DC1	F4	NULL	Ctrl+Q	Alt+017	Home
12	18	DC2	F5	NULL	Ctrl+R	Alt+018	Print Screen
13	19	DC3	F6	NULL	Ctrl+S	Alt+019	Back Space
14	20	DC4	F7	NULL	Ctrl+T	Alt+020	Shift tab
15	21	NAK	F8	F12	Ctrl+U	Alt+021	F12
16	22	SYN	F9	F1	Ctrl+V	Alt+022	F1
17	23	TB	F10	F2	Ctrl+W	Alt+023	F2
18	24	CAN	F11	F3	Ctrl+X	Alt+024	F3
19	25	EM	F12	F4	Ctrl+Y	Alt+025	F4
1A	26	SUB	NULL	F5	Ctrl+Z	Alt+026	F5

1B	27	Esc	Esc	F6	Ctrl+[	Alt+027	F6
1C	28	FS	ALT+028	F7	Ctrl+\	Alt+028	F7
1D	29	GS	ALT+029	F8	Ctrl+]	Alt+029	F8
1E	30	RS	NULL	F9	Ctrl+^	Alt+030	F9
1F	31	US	NULL	F10	Ctrl+_	Alt+031	F10

Appendix-ASCII code character table

Note: The key values 01-31 are invisible characters; please refer to "Appendix-Control Character List" to set the escape character set, **the default setting is character set 0**.

The visible character table with the key value of 32-127, this part of the characters can generally be directly output through the HID keyboard without escaping.

Hexadecimal	ASCII	character	1D setting code	2D setting code
01	01	SOH		
02	02	STX		
03	03	ETX		
04	04	EOT		
05	05	ENQ		

06	06	ACK		
07	07	BEL		
08	08	BS		
09	09	HT		
0A	10	LF		
0B	11	VT		
0C	12	FF		
0D	13	CR		

0E	14	S0		
0F	15	S1		
10	16	DLE		
11	17	DC1		
12	18	DC2		
13	19	DC3		
14	20	DC4		
15	21	NAK		

16	22	SYN		
17	23	TB		
18	24	CAN		
19	25	EM		
1A	26	SUB		
1B	27	Esc		
1C	28	FS		
1D	29	GS		

1E	30	RS	%%1E	%%1E
1F	31	US	%%1F	%%1F
20	32	SP	%%20	%%20
21	33	!	%%21	%%21
22	34	"	%%22	%%22
23	35	#	%%23	%%23
24	36	$	%%24	%%24
25	37	%	%%25	%%25

26	38	&	 %%26	 %%26
27	39	`	 %%27	 %%27
28	40	(	 %%28	 %%28
29	41	)	 %%29	 %%29
2A	42	*	 %%2A	 %%2A
2B	43	+	 %%2B	 %%2B
2C	44	,	 %%2C	 %%2C
2D	45	-	 %%2D	 %%2D

2E	46	.		
2F	47	/		
30	48	0		
31	49	1		
32	50	2		
33	51	3		
34	52	4		
35	53	5		

36	54	6		
37	55	7		
38	56	8		
39	57	9		
3A	58	:		
3B	59	;		
3C	60	<		
3D	61	=		

3E	62	>		
3F	63	?		
40	64	@		
41	65	A		
42	66	B		
43	67	C		
44	68	D		
45	69	E		

46	70	F	%%46	%%46
47	71	G	%%47	%%47
48	72	H	%%48	%%48
49	73	I	%%49	%%49
4A	74	J	%%4A	%%4A
4B	75	K	%%4B	%%4B
4C	76	L	%%4C	%%4C
4D	77	M	%%4D	%%4D

4E	78	N		
4F	79	O		
50	80	P		
51	81	Q		
52	82	R		
53	83	S		
54	84	T		
55	85	U		

56	86	V		
57	87	W		
58	88	X		
59	89	Y		
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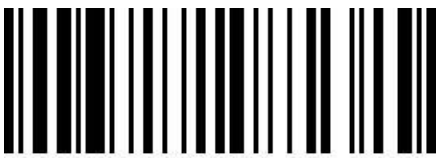
5B	91	[		
5C	92	\		
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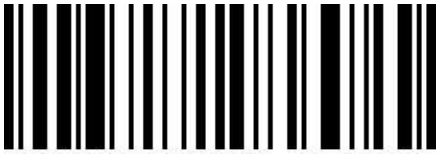
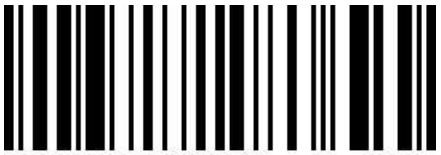
5E	94	^		
5F	95	_		
60	96	'		
61	97	a		
62	98	b		
63	99	c		
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65	101	e		

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69	105	i		
6A	106	j		
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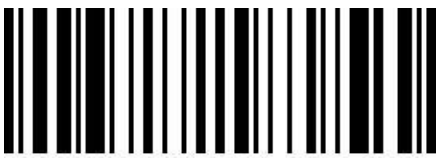
6C	108	l		
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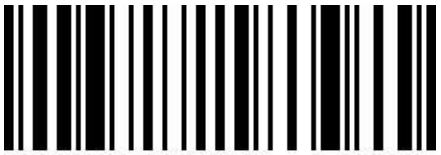
6E	110	n		
6F	111	o		
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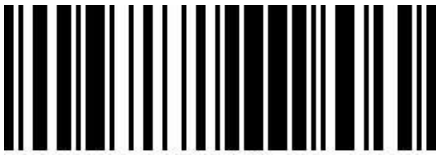
75	117	u		

76	118	v		
77	119	w		
78	120	x		
79	121	y		
7A	122	z		
7B	123	{		
7C	124	|		
7D	125	}		

7E	126	~	%%7E	%%7E
7F	127	DEL	%%7F	%%7F
C7	199	Ç	%%C7	%%C7
E7	231	ç	%%E7	%%E7