|  |
| --- |
|  |
| Wireless Barcode Scanner |
| Setting Manual |

**Disclaimer**

Pleasse 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 keep well for next use.

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

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**Version**

|  |  |  |
| --- | --- | --- |
| Version | 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 | Add 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 prefix and suffix and hidden character | 2019-05-21 |
| V1.08 | Add virtual serial port settings | 2019-10-25 |
| V1.1 | Add multiple national language settings, and add 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.

Content

[Wireless Factory Default 6](#_Toc104041350)

[Custom Default Setting 7](#_Toc104041351)

[Version 7](#_Toc104041352)

[Sound 8](#_Toc104041353)

[Frequency 9](#_Toc104041354)

[Vibration (Optional) 10](#_Toc104041355)

[Battery Level 10](#_Toc104041356)

[Sleeping Time 11](#_Toc104041357)

[Data Format 13](#_Toc104041358)

[Wireless Working Mode 14](#_Toc104041359)

[Instant Upload Mode 14](#_Toc104041360)

[Storage Mode 15](#_Toc104041361)

[Data Control 16](#_Toc104041362)

[Upload All Code 16](#_Toc104041363)

[Upload Total Count 17](#_Toc104041364)

[Clear All Codes 17](#_Toc104041365)

[Communication Setting 18](#_Toc104041366)

[USB-COM 18](#_Toc104041367)

[Wireless 2.4G Mode 18](#_Toc104041368)

[Virtual Bluetooth Mode 19](#_Toc104041369)

[Bluetooth HID Mode 20](#_Toc104041370)

[Bluetooth SPP Mode 21](#_Toc104041371)

[Bluetooth BLE Mode 21](#_Toc104041372)

[Wireless Pairing 22](#_Toc104041373)

[2.4 Wireless Pairing Steps (Dongle Pairing) 22](#_Toc104041374)

[Virtual Bluetooth Pairing Steps 24](#_Toc104041375)

[Bluetooth HID Pairing Steps 25](#_Toc104041376)

[Bluetooth SPP Pairing Steps 27](#_Toc104041377)

[Bluetooth BLE Pairing Steps 28](#_Toc104041378)

[Bluetooth Mode Function Setting 29](#_Toc104041379)

[Press and hold for 8s to enter HID Mode 29](#_Toc104041380)

[IOS System HID Virtual Keyboard Setting 30](#_Toc104041381)

[Bluetooth HID Upload Speed 32](#_Toc104041382)

[Bluetooth Name 33](#_Toc104041383)

[Get the Bluetooth Name 35](#_Toc104041384)

[National Keyboard Layout 36](#_Toc104041385)

[Case Conversion 42](#_Toc104041386)

[GS Replacement function 43](#_Toc104041387)

[Custom GS Replacement 43](#_Toc104041388)

[Cancel GS Replacement 44](#_Toc104041389)

[Custom Prefix/Suffix 45](#_Toc104041390)

[Add Custom Prefix 45](#_Toc104041391)

[Clear Custom Prefix 46](#_Toc104041392)

[Add Custom Suffix 47](#_Toc104041393)

[Clear Custom Suffix 48](#_Toc104041394)

[Hide First/Last Characters 49](#_Toc104041395)

[Clear Hidden characters 51](#_Toc104041396)

[Terminator 52](#_Toc104041397)

[Clock Function 54](#_Toc104041398)

[Control character set escape settings 56](#_Toc104041399)

[Appendix-Enter/Exit Settings 57](#_Toc104041400)

[Appendix-LED indicator description 58](#_Toc104041401)

[Appendix-description of buzzer sound 60](#_Toc104041402)

[Appendix-Control Character List 61](#_Toc104041403)

[Appendix-ASCII code character table 64](#_Toc104041404)

Wireless Factory Default

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 "Wireless Factory Default" setup code.

|  |  |
| --- | --- |
|  |  |
| Wireless Factory Default | |

**Instruction:**

You could use it in 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

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

|  |  |
| --- | --- |
|  |  |
| Custom Default Setting | |

Version

Use the scanner to scan the version barcode and you will view the information of current scanner version.

|  |  |
| --- | --- |
|  |  |
| Version | |

Sound

|  |  |
| --- | --- |
|  |  |
| High\* | |
|  |  |
| Medium | |
|  |  |
| Low | |
|  |  |
| Mute | |

Frequency

|  |  |
| --- | --- |
|  |  |
| 2048MHz | |
|  |  |
| 2730MHz | |

Vibration (Optional)

|  |  |
| --- | --- |
|  |  |
| On | |
|  |  |
| Off | |
| **Note**: The vibration function is optional for some products. | |

Battery Level

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

|  |  |
| --- | --- |
|  |  |
| Battery Level | |

Sleeping Time

|  |  |
| --- | --- |
|  |  |
| 30s | |
|  |  |
| 1min | |
|  |  |
| 2min | |
|  |  |
| 5min\* | |
|  |  |
| 10min | |
|  |  |
| 30min | |
|  |  |
| Never | |
|  |  |
| Sleep Immediately | |

Data Format

Use the scanner wireless 2.4G or wired USB interface to set the data input format, you can directly output Chinese or other format languages.

|  |  |
| --- | --- |
|  |  |
| GBK（Notepad，Excel, etc）\* | |
|  |  |
| Unicode（WORD，QQ, etc） | |

Wireless Working Mode

The wireless scanner has two different working modes: instant upload mode and storage mode. The operation mode is switched by different setup codes.

Instant Upload Mode

Instant upload Mode is also called normal mode. In this mode, the barcodes that are scanned will be transmitted to the host device immediately.

|  |  |
| --- | --- |
|  |  |
| Instant Upload Mode\* | |

Storage Mode

Storage Mode is also called inventory mode or warehouse mode. In storage mode, the scanner will not transmit scanned barcodes 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 the “Clear All Barcodes Stored” setup code is scanned.

|  |  |
| --- | --- |
|  |  |
| Storage Mode | |

Data Control

Data control is used for processing stored data.

Upload All Code

To upload the data stored in the memory, scan the “Upload All Codes” 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 Codes” is scanned.

|  |  |
| --- | --- |
|  |  |
| Upload All Codes | |

Upload Total Count

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

|  |  |
| --- | --- |
|  |  |
| Upload Total Count | |

Clear All Codes

Scan the “Clear All Codes” to clear the data stored in the scanner memory.

Note: this operation will clear all stored data.

|  |  |
| --- | --- |
|  |  |
| Clear All Codes | |

Communication Setting

This scanner can not only support wireless communication, but also supports wired communication. When the scanner is wired to the scanner, the scanner will automatically switch to wired transmission.

USB-COM

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.

|  |  |
| --- | --- |
|  |  |
| USB-COM | |

Wireless 2.4G Mode

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.

|  |  |
| --- | --- |
|  |  |
| Wireless 2.4G Mode | |

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" setup code**  **When setting the wireless 2.4G mode, it will give priority to connect to the last paired receiver by default**. | |
|  |  |
| Wireless 2.4G Mode | |
| **Step 2: Scan the "Forced Pairing" setup code to enter the pairing state, and the blue LED1 flashes quickly**. | |
|  |  |
| Forced Pairing | |
| **Step 3: Plug in Dongle (receiver) and hear a beep, indicating that the connection and pairing is successful. 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 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" setup 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" setup 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 or the pairing timeout for 1 minute.**

Bluetooth HID Pairing Steps

|  |  |
| --- | --- |
| **Step 1: Scan the "Bluetooth HID Mode" setup code**  **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" setup code to enter the pairing state, and the blue LED1 and blue LED2 flash alternately**. | |
|  |  |
| Forced Pairing | |
| **Note: Press and hold the button for 8 seconds without releasing it and you will hear a beep, and then release the button to enter the Bluetooth HID pairing state (this function needs to be turned on)**. | |
| **Step 3: Turn on Bluetooth in the device and search for "BarCode Bluetooth HID".** | |
| **Step 4: Click "BarCode Bluetooth HID" Bluetooth 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 always on.** | |

**Note:**

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

Bluetooth SPP Pairing Steps

|  |
| --- |
| **Step 1: Scan the "Bluetooth SPP Mode" setup code**  **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**。 |
| |  |  | | --- | --- | |  |  | | 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 on.** |

Bluetooth BLE Pairing Steps

|  |
| --- |
| **Step 1: Scan the "Bluetooth SPP Mode" setup code**  **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.** |
| |  |  | | --- | --- | |  |  | | 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 for 8s to enter HID Mode

When using a Bluetooth barcode, turn on and hold for 8 seconds to enter the Bluetooth HID search.

|  |  |
| --- | --- |
|  |  |
| On | |
|  |  |
| Off | |

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 | |
|  |  |
| Show/Hide IOS Keyboard | |

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

|  |  |
| --- | --- |
|  |  |
| Turn on the double-click to display the IOS keyboard function (HID mode) | |
|  |  |
|  |  |
| Turn off the double-click 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 Upload Speed

|  |  |
| --- | --- |
| When using Bluetooth HID to connect to a Bluetooth host, the upload speed of the Bluetooth scanner can be adjusted according to the response capability of the Bluetooth host. If the uploaded content 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.

**Steps**

**Step 1: Scan the "Custom Bluetooth Name" setup code**

|  |  |
| --- | --- |
|  |  |
| 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 of 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" setup code**

|  |  |
| --- | --- |
|  |  |
| 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 key arrangement, symbols, etc. corresponding to different national languages are not 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. The default is "American English keyboard".

|  |  |
| --- | --- |
|  |  |
| English | |
|  |  |
| German | |
|  |  |
| French | |
|  |  |
| Spanish | |
|  |  |
| Italian | |
|  |  |
| Japanese | |
|  |  |
| BF - Belgian French | |
|  |  |
| Portuguese | |
|  |  |
| British English | |
|  |  |
| German IOS keyboard | |
|  |  |
| Brazilian Portuguese | |
|  |  |
| Russian | |
|  |  |
| Czech | |
|  |  |
| Italy 142 | |
|  |  |
| (Turkey Q) | |
|  |  |
| (Turkey F) | |
|  |  |
| Sweden / Finland | |
|  |  |
| Mexican Spanish | |
|  |  |
| Denmark | |
|  |  |
| Written Norwegian | |
|  |  |
| Croatian/Serbian | |
|  |  |
| Swiss German | |
|  |  |
| Swiss French | |
|  |  |
| Dutch | |
|  |  |
| Hungarian | |
|  |  |
| Polish | |
|  |  |
| Canadian French | |
|  |  |
| Argentina (Latin American) | |
|  |  |
| Slovak | |
|  |  |
| International keyboard | |

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

Case Conversion

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

For example: The content of the barcode is aBC123, scan "Lower", the data obtained by the host will be "abc123". The default is Normal.

|  |  |
| --- | --- |
|  |  |
| Normal\* | |
|  |  |
| Upper | |
|  |  |
| Lower | |
|  |  |
| Inverse | |

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

GS Replacement function

After using the GS replacement function, the GS can be replaced with other characters, which is convenient for the host device to display. When you need to display 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" setup code**

|  |  |
| --- | --- |
|  |  |
| Custom GS Replacement | |

**Step 2: Query "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" setup code.

Step 2: Query 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” Setup Code**

|  |  |
| --- | --- |
|  |  |
| Add Custom Prefix | |

**Step 2: According to the content that needs to be added, query the "ASCII code character table" and scan the setup code corresponding to the custom prefix.**

**Example:**

**Original barcode is "ABC123", add custom "789", and output "789ABC123"**

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

**Step 2: According to the content that needs to be added, query the "ASCII code character table" and scan the setup codes corresponding to "7", "8", and "9".**

Clear Custom Prefix

Refer to Adding Custom Prefix Setting and follow the steps below to clear the custom prefix.

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

Step 2: Scan the setup 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”Setup Code**

|  |  |
| --- | --- |
|  |  |
| Add Custom Suffix | |

**Step 2: According to the content that needs to be added, query the "ASCII code character table" and scan the setup code corresponding to the custom suffix.**

**Example:**

**Original barcode is "ABC123", add custom "XYZ", and output "ABC123XYZ"**

**Step 1: Scan the "Add custom suffix" setup code;**

**Step 2: According to the content that needs to be added, query the "ASCII code character table" and scan the setup codes corresponding to "X", "Y", and "Z";**

Clear Custom Suffix

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

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

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

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

Hide First/Last Characters

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

Step 1: Scan the setup code 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 prefix or suffix characters that need to be hidden.

|  |  |
| --- | --- |
| %%01.jpg |  |
| Hide 1 character | |
| %%02.jpg |  |
| Hide 2 characters | |
| %%03.jpg |  |
| Hide 3 characters | |
| %%04.jpg |  |
| Hide 4 characters | |

Clear Hidden characters

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

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

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

Terminator

|  |  |
| --- | --- |
| The terminator 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) | |
|  |  |
| NONE | |

Clock Function

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

|  |  |
| --- | --- |
|  |  |
| Show current time | |
|  |  |
| Add time before barcode | |
|  |  |
| Add time after barcode | |
|  |  |
| Close time before or after barcode | |

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

|  |  |
| --- | --- |
|  |  |
| Escape character set 0\* | |
|  |  |
| Escape character set 1 | |
|  |  |
| Escape character set 2 | |
|  |  |
| Escape character set 3 | |
|  |  |
| 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 code indicator light flashes briefly when the barcode is successfully scan. |
| 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) | Indicates that the power is on |
| One long tone (high first and then low) | Indicates that the power is off |
| One short tone (low frequency) | Indicates that the normal barcode is scanned, or the pairing is successful, or the wireless connection is successful. |
| One short tone (low first and then high) | Indicates that the scanned data is stored in the storage area |
| One short tone (high first and then low) | Indicates that the setup code 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 it need to be charged |
| Two short tones (low frequency) | Indicates wireless disconnection |
| Two short tones (high frequency) | Indicates that the scanned setup 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。

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 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: 01-31 are invisible characters. Please refer to "Appendix-Control Character List" to set the escape character set.

32-127 are visible characters. This part of the characters can generally be directly output through the HID keyboard without escaping.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Hexadecimal | ASCII | character | 1D setup code | 2D setup code |
| 01 | 01 | SOH | %%01.jpg |  |
| 02 | 02 | STX | %%02.jpg |  |
| 03 | 03 | ETX | %%03.jpg |  |
| 04 | 04 | EOT | %%04.jpg |  |
| 05 | 05 | ENQ | %%05.jpg |  |
| 06 | 06 | ACK | %%06.jpg |  |
| 07 | 07 | BEL | %%07.jpg |  |
| 08 | 08 | BS | %%08.jpg |  |
| 09 | 09 | HT | %%09.jpg |  |
| 0A | 10 | LF | %%0A.jpg |  |
| 0B | 11 | VT | %%0B.jpg |  |
| 0C | 12 | FF | %%0C.jpg |  |
| 0D | 13 | CR | %%0D.jpg |  |
| 0E | 14 | S0 | %%0E.jpg |  |
| 0F | 15 | S1 | %%0F.jpg |  |
| 10 | 16 | DLE | %%10.jpg |  |
| 11 | 17 | DC1 | %%11.jpg |  |
| 12 | 18 | DC2 | %%12.jpg |  |
| 13 | 19 | DC3 | %%13.jpg |  |
| 14 | 20 | DC4 | %%14.jpg |  |
| 15 | 21 | NAK | %%15.jpg |  |
| 16 | 22 | SYN | %%16.jpg |  |
| 17 | 23 | TB | %%17.jpg |  |
| 18 | 24 | CAN | %%18.jpg |  |
| 19 | 25 | EM | %%19.jpg |  |
| 1A | 26 | SUB | %%1A.jpg |  |
| 1B | 27 | Esc | %%1B.jpg |  |
| 1C | 28 | FS | %%1C.jpg |  |
| 1D | 29 | GS | %%1D.jpg |  |
| 1E | 30 | RS | %%1E.jpg |  |
| 1F | 31 | US | %%1F.jpg |  |
| 20 | 32 | SP |  |  |
| 21 | 33 | ! |  |  |
| 22 | 34 | " |  |  |
| 23 | 35 | # |  |  |
| 24 | 36 | $ |  |  |
| 25 | 37 | % |  |  |
| 26 | 38 | & |  |  |
| 27 | 39 | ` |  |  |
| 28 | 40 | ( |  |  |
| 29 | 41 | ) |  |  |
| 2A | 42 | \* |  |  |
| 2B | 43 | + |  |  |
| 2C | 44 | , |  |  |
| 2D | 45 | - |  |  |
| 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 |  |  |
| 47 | 71 | G |  |  |
| 48 | 72 | H |  |  |
| 49 | 73 | I |  |  |
| 4A | 74 | J |  |  |
| 4B | 75 | K |  |  |
| 4C | 76 | L |  |  |
| 4D | 77 | M |  |  |
| 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 |  |  |
| 5A | 90 | Z |  |  |
| 5B | 91 | [ |  |  |
| 5C | 92 | \ |  |  |
| 5D | 93 | ] |  |  |
| 5E | 94 | ^ |  |  |
| 5F | 95 | \_ |  |  |
| 60 | 96 | ' |  |  |
| 61 | 97 | a |  |  |
| 62 | 98 | b |  |  |
| 63 | 99 | c |  |  |
| 64 | 100 | d |  |  |
| 65 | 101 | e |  |  |
| 66 | 102 | f |  |  |
| 67 | 103 | g |  |  |
| 68 | 104 | h |  |  |
| 69 | 105 | i |  |  |
| 6A | 106 | j |  |  |
| 6B | 107 | k |  |  |
| 6C | 108 | l |  |  |
| 6D | 109 | m |  |  |
| 6E | 110 | n |  |  |
| 6F | 111 | o |  |  |
| 70 | 112 | p |  |  |
| 71 | 113 | q |  |  |
| 72 | 114 | r |  |  |
| 73 | 115 | s |  |  |
| 74 | 116 | t |  |  |
| 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 | ~ |  |  |
| 7F | 127 | DEL |  |  |
| C7 | 199 | Ç | %%C7 |  |
| E7 | 231 | ç | %%E7 |  |