**Winson®**

# 2.4G/Bluetooth scanner user manual

# Content

# 1. Configuration

**Note:   theasterisk(*) to the factory defult**



^&001&^

**Firmware verison**



^&002&^

**Factory default**

# 2. output mode



^&05A&^

**USB priority output(*)**
**Note: When a USB is inserted, only transfer via USB**



^&05B&^

**At the same time the output**
**Note:USB and 2.4g or bluetooth output at the same time**

# 3. Data Transfer Mode



^&005&^

**Normal run mode**

**Note: In normal mode, the scanned data will be uploaded immediately. If the transmission fails, an alarm will be issued, and the data will not be saved.**

```
^&006&^
```

**Storage run mode**

**Note: In inventory mode, the scanned barcode will be automatically saved. If you need to view statistical data or upload data, you can scan the corresponding set barcode to view it.**

```
^&007&^
```

**Automatic storage mode**

**Note: In automatic storage mode, the data will be automatically saved when the distance is exceeded. When you need to upload the automatically saved data, scan the setting code "Upload all data" to upload the automatically saved data**
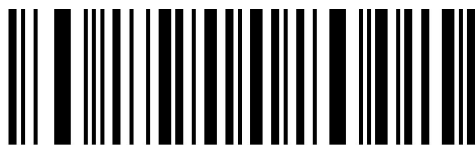
# 4. Communication Mode

```
^&010&^
```

**Receiver Mode**

```
^&011&^
```

**Bluetooth HID Mode**

Note:Bluetooth HID mode is to switch to HID mode, and the previously paired Bluetooth will be automatically connected. When there is a problem with the bluetooth communication, the alarm prompts that the bluetooth entry is unsuccessful.

```
^&012&^
```

**Bluetooth BLE Mode**

Note:In Bluetooth BLE transparent transmission mode, Bluetooth devices (ie, Bluetooth devices such as mobile phones/IPADs) need to download or develop low-power Bluetooth BLE transparent transmission software before they can be used. When there is a problem with the Bluetooth communication, the alarm prompts that the Bluetooth entry is unsuccessful.

```
^&013&^
```
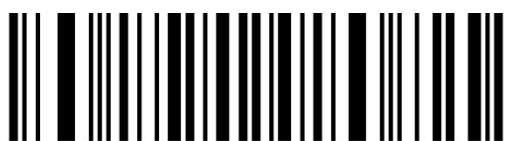
**Bluetooth SPP Mode**

Note:In the Bluetooth SPP transparent transmission mode, Bluetooth devices (ie, Bluetooth devices such as mobile phones/IPADs) need to download or develop classic Bluetooth SPP transparent transmission software before they can be used. When there is a problem with the Bluetooth communication, the alarm prompts that the Bluetooth entry is unsuccessful.

# 5. USB interface type

```
^&015&^
```

**USB-HID(*)**

‖‖|‖‖|‖‖‖|‖‖|‖|‖‖|‖‖|‖‖‖
^&016&^

**USB-COM**

# 6. USB-HID Data type

‖‖|‖‖‖|‖|‖‖‖|‖‖|‖‖|‖‖|‖
^&051&^

**Keyboard function key**

‖‖|‖‖|‖‖|‖‖‖|‖‖|‖‖|‖‖‖
^&052&^

**Send Chinese Characters**

‖‖|‖‖‖|‖‖|‖‖|‖‖‖|‖‖|‖
^&053&^

**Send ASCII**

## 7. Storage Mode

**^&030&^**

**Clear all data**
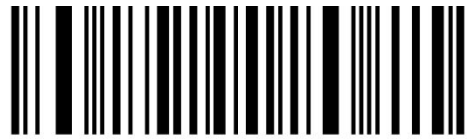
**^&031&^**

**Statistical    Information**

**^&032&^**

**Uploading all data**

## 8. Battery Function

**^&037&^**

**Battery Indicator**

## 9. Motor Mode Set

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
^&038&^

**OFF**

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
^&039&^

**ON(*)**

## 10. Sound Volume Set

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
^&03A&^

**OFF**

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
^&03B&^

**HIGH(*)**

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
^&03C&^

**Medium**

‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖‖
^&03D&^

**LOW**

## 11. Sound Type

‸&03E&‸

**MCU Sound ON(*)**

‸&03F&‸

**Scan Head Sound ON**

## 12. Sound frequency setting

‸&04C&‸
**Sound frequency 2048HZ**

‸&04D&‸

**Sound frequency 2700HZ**

## 13. Sleep Time Set

‸&040&‸
No Sleep

||||| ||| |||| ||
^&041&^
Sleep now

||||| ||| |||| ||
^&042&^
10S

||||| ||| |||| ||
^&043&^
30S

||||| ||| |||| ||
^&044&^
1min(*)

||||| ||| |||| ||
^&045&^
2 min

||||| ||| |||| ||
^&046&^
5min

||||| ||| |||| ||
^&047&^
10min

||||| ||| |||| ||
^&048&^
30min

# 14. GS (group separator) characters conversion

||||| ||| |||| ||
^&060&^
None(*)

||||| ||| |||| ||
^&061&^
GS converts to <GS>

```
‸&062&‸
```

GS converts to |

```
‸&063&‸
```

GS converts to ]

```
‸&064&‸
```

GS converts to ^]

## 15. Letter case conversion

```
‸&07C&‸
```

Normal Letter Case(*)

```
‸&07D&‸
```

All Uppercase

```
‸&07E&‸
```

All Lowercase

```
‸&07F&‸
```

Case Inversion

# 16. Language Set

||||||||||||||||||||||
^&080&^

USA(*)

||||||||||||||||||||||
^&081&^

German

||||||||||||||||||||||
^&082&^

France

||||||||||||||||||||||
^&083&^

Italy

||||||||||||||||||||||
^&084&^

Canadian

||||||||||||||||||||||
^&085&^

Spain

||||||||||||||||||||||
^&086&^

Brazil

||||||||||||||||||||||
^&087&^

Sweden

||||||||||||||||||||||
^&088&^

Portugal

||||||||||||||||||||||
^&089&^

Belgium

||||||||||||||||||||||
^&08A&^

Turkey F

||||||||||||||||||||||
^&08B&^

Turkey Q

||||||||||||||||||||||
^&08C&^

Italian14

||||||||||||||||||||||
^&08D&^

Netherlands

‖‖‖‖‖‖‖‖‖‖‖‖
^&08E&^

Poland

‖‖‖‖‖‖‖‖‖‖‖‖
^&08F&^

Finland

‖‖‖‖‖‖‖‖‖‖‖‖
^&090&^

Latin America

‖‖‖‖‖‖‖‖‖‖‖‖
^&091&^

Serbria

‖‖‖‖‖‖‖‖‖‖‖‖
^&092&^

Hungary

‖‖‖‖‖‖‖‖‖‖‖‖
^&093&^

Denmark

‖‖‖‖‖‖‖‖‖‖‖‖
^&094&^

Norway

‖‖‖‖‖‖‖‖‖‖‖‖
^&095&^

Janpanese

# 17. ①2.4G Wireless Setting Private

```
ˆ&010&ˆ
```
Receiver Mode(*)

## ② 2.4G Pairing
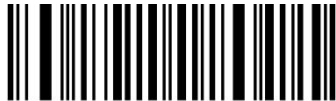
```
ˆ&021&ˆ
```
Receiver Pairing

1. There are two ways to enter 2.4G pairing:
(1) Scan the pairing receiver setting code to enter the 2.4G pairing mode;
(2) Press and hold the button for 8 seconds to hear the first sound, continue to press and hold until the sound is heard again (about 16 seconds in total) and then release the button, it will automatically enter 2.4 wireless and enter the pairing mode

2. Exit 2.4G pairing:
(1) When the Bluetooth is paired, it will prompt once and end the pairing.
(2) Double-click the button twice to exit, and it will prompt once.
(3) When waiting for 1 minute, it will automatically exit and prompt three times.
Note: When exiting pairing, if no new receiver is connected, the receiver that was paired for the last time will be automatically connected by default.

```
ˆ&D10&ˆ
```

```
ˆ&D11&ˆ
```

| **Enable** | **Disable** |
|---|---|
| Long press 16S to enter 2.4G pairing | Long press 16S to turn off 2.4G pairing |

### ③2.4G Extended Cache Setting



**Disable** 2.4G Extended Cache(*)

Remark

1. Close: After scanning the data, it will be uploaded. You need to wait for the data to be uploaded before scanning the next one.

2. On: The scanned data is saved in the cache, and then the next one can be scanned without waiting for the transfer to complete. Automatically store the cache, and then send the data.



**Enable** 2.4G Extended Cache

# 21.Bluetooth Setting Private

### ①Bluetooth HID Setting Private



Bluetooth HID Mode

Note: Set the Bluetooth HID mode, it will enter the Bluetooth HID mode, and automatically connect to the last paired Bluetooth by default. Not in the broadcast state, if you need to pair, check the Bluetooth HID pairing details.

**Bluetooth HID Pairing**

1. Enter the Bluetooth HID pairing mode:
(1) Set up Bluetooth pairing, and you can search for Bluetooth through Bluetooth devices.
(2) Press and hold the button for 8 seconds, hear the first sound, release it, it will enter the Bluetooth HID mode and set the Bluetooth pairing. It can be searched and paired by Bluetooth devices.
2. Exit Bluetooth HID pairing:
(1) When the Bluetooth is paired, it will prompt once and end the pairing.
(2) Double-click the button twice to exit, and it will prompt once.
(3) Wait for 1 minute, if the Bluetooth is not paired, it will automatically exit and prompt three times.
Note: When exiting pairing, if no new device is connected, the old device that was paired for the last time will be automatically connected by default.


^&C25&^

**Enable**
Long press 8S to enter Bluetooth HID pairing


^&C26&^

**Disable**
long press 8S to turn off Bluetooth HID pairing

## 18. Show or Hide the Keyboard in IOS

```
^&C08&^
```

Show or hide virtual keyboard under IOS system

Note: In HID mode, IOS system, quickly press 3 times to display or hide the IOS virtual keyboard

## 19. Bluetooth HID Transfer Rate

1. It is recommended to use fast upload under IOS

2. Under Android, you can set the corresponding speed according to the response speed of the mobile phone

When uploading content is garbled or data is lost, please lower the speed

```
^&C09&^
```
Fast

```
^&C0A&^
```
Medium

```
^&C0B&^
```
Low

```
^&C20&^
```
Ultra-low speed

## 20. Bluetooth SPP Mode



^&013&^

Bluetooth SPP Mode

## 21. Bluetooth BLE Mode



^&012&^

Bluetooth BLE Mode

## 22. Bluetooth Name Setting



^&C0C&^XXX

Bluetooth name barcode customized

1.Fixed front character"^&C0C&^",'XXX' is the name of the setting.
2.Setting the maximum length of the name:24 bytes.

```
||| ||||| |||| ||||| ||| ||| ||||
```
^&COD&^

Bluetooth name ASCII customized

step:

1. Scan the setting code "Bluetooth name ASCII customized"

2. Scan the content you need to add in turn, please find the ASCII code table

3. Finally scan the setting code "Save data and exit"

Note: The Bluetooth name can be set to a maximum of 24 bytes.

Setting tutorial: You can refer to the tutorial on adding prefixes and suffixes

```
||| ||||| ||||| ||||| ||| ||||
```
^&COE&^

Bluetooth Name Default

Remarks: Set the bluetooth name to restore the factory, and the set bluetooth name will be automatically cleared. Or sweeping the factory reset will also clear the custom bluetooth name.

## 23. Get Bluetooth Name

```
||| ||||| || ||||| | |||| |||
```
^&C10&^

Get Bluetooth Name

Note: Only in the blue HID/SPP/BLE mode, the acquisition of the bluetooth name can be successful, otherwise it will fail.

## 24. Get Bluetooth Address



Get Bluetooth Address

Remarks: Only in HID/SPP/BLE mode, the acquisition of the Bluetooth address can be successful, otherwise it will fail. The Bluetooth address cannot be displayed, and the serial port can be used to view the address for debugging.

## 25. Software Update



Scanner



Receiver



Bluetooth

# 26. Data editor

## 1). Suffix Terminator character Setting

Add character format: Decode Data+Terminator.



`^&300&^`

Suffix-None



`^&301&^`

Suffix-Enter(*)



`^&302&^`

Suffix-Line



`^&303&^`

Suffix-Tab



`^&304&^`

Suffix-Enter&Line

## 2). Hidden character Settings



`^&306&^`

Hide previous character



`^&307&^`

Hide back character

## 3)Add prefix and suffix Settings

```
║║║ ║║║ ║║║║ ║║║ ║║║                    ║║║ ║║║ ║║║║ ║║║ ║║║
    ˆ&308&ˆ                                  ˆ&309&ˆ
```

**Add Prefix setting**                            **Add Suffix Setting**

```
            ║║║ ║║║ ║║║║ ║║║ ║║║
                ˆ&305&ˆ
```

**Save data and exit**

hide front character setting

step:

(1) Scan the setting code "Hide previous characters"

(2) Set the first digit of the number to start hiding, and use a two-digit data code to represent the decimal number XX

(3) Set how many digits (including its own data) are hidden from the beginning of the first digit, and use a two-digit data code to represent the decimal number YY

(4) Finally, scan the setting code "save data and exit".

XX represents the number of digits in the number, that is, it is hidden from the number of characters in the number (including itself);

YY represents how many digits to hide, that is, how many digits to hide in the future

For example: the barcode content is: "ABCDEFGHIJKLMN", hide the DEFGH characters, so that the output barcode is "ABCDIJKLMN".

(1) Scan the setting code "Hide previous characters"

(2) The position of the character 'E' is the 4th bit, so "XX" is '0', '4',

Find the data code table and scan the data code table '0' and '4' in turn;

(3) Hidden "DEFGH" means a total of 5 characters, so "YY" is '0', '5',

Find the data code table and scan the data code table '0' and '5' in turn;

(4) Finally, scan the setting code "save data and exit".

Remarks: Only operate (1) and (4), then it can also be cleared by clearing the character settings before hiding or restoring to the factory.

Hidden back character settings

step:

(1) Scan the setting code "hidden characters"

(2) Set the penultimate digit to start hiding (including its own data), and use a two-digit data code to represent the decimal number XX

(3) Set how many digits to hide from the last digit, and use the two-digit data code to represent the decimal number YY

(4) Finally, scan the setting code "save data and exit".

XX represents the penultimate digit, that is, it is hidden from the penultimate character (including itself);

YY represents how many digits to hide, that is, how many digits to hide ahead

For example: the barcode content is: "ABCDEFGHIJKLMN", hide the DEFGH characters, so that the output barcode is "ABCDIJKLMN".

(1) Scan the setting code "Hide previous characters"

(2) The position of the character 'H' is the 7th bit, so "XX" is '0', '7',

Find the data code table and scan the data code table '0' and '7' in turn;

(3) Hidden "DEFGH" means a total of 5 characters, so "YY" is '0', '5',

Find the data code table and scan the data code table '0' and '5' in turn;

(4) Finally, scan the setting code "save data and exit".

Remarks: Only operate (1) and (4) to clear the hidden character settings or restore the factory.

Add prefix settings

step:

(1) Scan the setting code "Add prefix"

(2) Set the first digit to start inserting characters (including its own data), and use the two-digit "data code" to represent the decimal number XX (the first setting can be omitted and set to "0", "1"), please check the corresponding data code table

(3) Scan the content to be added in turn, please find the ASCII code table

(4) Finally, scan the setting code "save data and exit".

For example: the original barcode content is "ABCDEFGHIJKLMN";

The content after adding the prefix is        ""ABCDE12345FGHIJKLMN"".

1. Scan the setting code "Add Prefix"

2. In the original barcode, the prefix content "12345" is added in front of the character 'F', while the original barcode the position of the code content 'F' is the 6th character, so the data code "XX" is "0", "6", look up the data code table, and scan the barcode corresponding to the data code in turn.

3. The content added to the original barcode is "12345", a total of 5 characters. Find the ASCII code table, the characters "1", "2", "3", "4", "5" correspond to the ASCII codes "31", "32", "33", "34", "35" in turn, and scan the corresponding barcode in turn

4. Finally scan the setting code "Save data and exit".

Remarks: Only operate (1) and (4), then adding a prefix for clearing or restoring to the factory can also be cleared.

Add suffix settings

step

(5) Scan the setting code "Add Suffix"

(6) Set the penultimate digit to start inserting characters (including its own data), and use the two-digit "data code" to represent the decimal number XX (the last setting can be omitted and set to "0", "1"), please check the corresponding Data code table

(7) For the content that needs to be added in one scan, please find the ASCII code table

(8) Finally, scan the setting code "save data and exit".

For example: the original barcode content is "ABCDEFGHIJKLMN";

The content after adding the prefix is       ""ABCDE12345FGHIJKLMN"".

1. Scan the setting code "Add Suffix"

2. In the original barcode, the suffix content "12345" is added after the character 'E', while the original barcode the position of the code content "E" is the 10th character from the bottom, so the data code "XX" is "1", "0", look up the data code table, and scan the barcode corresponding to the data code in turn.

3. The content added to the original barcode is "12345", a total of 5 characters. Find the ASCII code table, the characters "1", "2", "3", "4", "5" correspond to the ASCII codes "31", "32", "33", "34", "35" in turn, and scan the corresponding barcode in turn

4. Finally scan the setting code "Save data and exit".

Remarks: Only operate (1) and (4), it can also be cleared by adding suffix content for clearing or restoring to the factory.

# 27.  Hide front character shortcut settings

Note: How many digits are hidden from the first digit by default

The format is as follows: ^&600&^ to ^&6FF&^, 00~FF are hidden digits


^&601&^

hide the first 1 bit


^&602&^

2bit


^&603&^


^&604&^

3bit

‸&605&‸

4bit

‸&606&‸

5bit

‸&607&‸

6bit

‸&608&‸

7bit

‸&609&‸

8bit

‸&60A&‸

9bit

‸&60B&‸

10bit

‸&60C&‸

11bit

‸&60D&‸

12bit

‸&60E&‸

13bit

‸&60F&‸

14bit

15bit

## 28. Hide the following characters shortcut settings

Note: By default, how many digits are hidden from the last one

The format is as follows: ^&700&^ to ^&7FF&^, 00~FF are hidden digits

^&701&^
1bit

^&702&^
2bit

^&703&^
3bit

^&704&^
4bit

^&705&^
5bit

^&706&^
6bit

^&707&^
7bit

^&708&^
8bit

^&709&^
9bit

^&70A&^
10bit

^&70B&^
11bit

^&70C&^
12bit

```
‖‖ ‖‖‖‖ ‖‖‖‖ ‖ ‖‖‖‖
ˆ&70D&ˆ
```
13bit

```
‖‖ ‖‖‖‖ ‖‖‖‖ ‖ ‖‖‖‖
ˆ&70E&ˆ
```
14bit

```
‖‖ ‖ ‖‖‖ ‖‖‖‖ ‖ ‖‖‖‖
ˆ&70F&ˆ
```
15bit

| | Data Code Table | |
|---|---|---|
| | ˆ&3F0&ˆ<br>**0** | |
| ˆ&3F1&ˆ<br>**1** | | ˆ&3F2&ˆ<br>**2** |
| | ˆ&3F3&ˆ<br>**3** | |

| | | |
|---|---|---|
| ˆ&3F4&ˆ<br>**4** | | ˆ&3F5&ˆ<br>**5** |
| | ˆ&3F6&ˆ<br>**6** | |
| ˆ&3F7&ˆ<br>**7** | | ˆ&3F8&ˆ<br>**8** |
| | ˆ&3F9&ˆ<br>**9** | |

| ASCII Code Table | | |
|---|---|---|
| | ˆ&400&ˆ<br>Null | |
| ˆ&401&ˆ<br>SOH(start of headline) | ˆ&402&ˆ<br>STX (start of text) | ˆ&403&ˆ<br>ETX |

| | | |
|---|---|---|
| ˆ&404&ˆ<br>EOT | ˆ&405&ˆ<br>ENQ | ˆ&406&ˆ<br>ACK |
| ˆ&407&ˆ<br>BEL | ˆ&408&ˆ<br>BS | ˆ&409&ˆ<br>HT |
| ˆ&40A&ˆ<br>LF | ˆ&40B&ˆ<br>VT | ˆ&40C&ˆ<br>FF |
| ˆ&40D&ˆ<br>CR | ˆ&40E&ˆ<br>SO | ˆ&40F&ˆ<br>SI |
| ˆ&410&ˆ<br>DLE | ˆ&411&ˆ<br>DC1 | ˆ&412&ˆ<br>DC2 |
| ˆ&413&ˆ<br>DC3 | ˆ&414&ˆ<br>DC4 | ˆ&415&ˆ<br>NAK |
| ˆ&416&ˆ<br>SYN | ˆ&417&ˆ<br>ETB | ˆ&418&ˆ<br>CAN |
| ˆ&419&ˆ<br>EM | ˆ&41A&ˆ<br>SUB | ˆ&41B&ˆ<br>ESC |
| ˆ&41C&ˆ<br>FS | ˆ&41D&ˆ<br>GS | ˆ&41E&ˆ<br>RS |
| ˆ&41F&ˆ<br>US | ˆ&420&ˆ<br>SP | ˆ&421&ˆ<br>! |

| | | |
|---|---|---|
| ˆ&422&ˆ<br>" | ˆ&423&ˆ<br># | ˆ&424&ˆ<br>$ |
| ˆ&425&ˆ<br>% | ˆ&426&ˆ<br>& | ˆ&427&ˆ<br>' |
| ˆ&428&ˆ<br>( | ˆ&429&ˆ<br>) | ˆ&42A&ˆ<br>* |
| ˆ&42B&ˆ<br>+ | ˆ&42C&ˆ<br>, | ˆ&42D&ˆ<br>- |
| ˆ&42E&ˆ<br>. | ˆ&42F&ˆ<br>/ | ˆ&430&ˆ<br>0 |
| ˆ&431&ˆ<br>1 | ˆ&432&ˆ<br>2 | ˆ&433&ˆ<br>3 |
| ˆ&434&ˆ<br>4 | ˆ&435&ˆ<br>5 | ˆ&436&ˆ<br>6 |
| ˆ&437&ˆ<br>7 | ˆ&438&ˆ<br>8 | ˆ&439&ˆ<br>9 |
| ˆ&43A&ˆ<br>: | ˆ&43B&ˆ<br>; | ˆ&43C&ˆ<br>< |
| ˆ&43D&ˆ<br>= | ˆ&43E&ˆ<br>> | ˆ&43F&ˆ<br>? |

| | | |
|---|---|---|
| ˆ&440&ˆ<br>@ | ˆ&441&ˆ<br>A | ˆ&442&ˆ<br>B |
| ˆ&443&ˆ<br>C | ˆ&444&ˆ<br>D | ˆ&445&ˆ<br>E |
| ˆ&446&ˆ<br>F | ˆ&447&ˆ<br>G | ˆ&448&ˆ<br>H |
| ˆ&449&ˆ<br>I | ˆ&44A&ˆ<br>J | ˆ&44B&ˆ<br>K |
| ˆ&44C&ˆ<br>L | ˆ&44D&ˆ<br>M | ˆ&44E&ˆ<br>N |
| ˆ&44F&ˆ<br>O | ˆ&450&ˆ<br>P | ˆ&451&ˆ<br>Q |
| ˆ&452&ˆ<br>R | ˆ&453&ˆ<br>S | ˆ&454&ˆ<br>T |
| ˆ&455&ˆ<br>U | ˆ&456&ˆ<br>V | ˆ&457&ˆ<br>W |
| ˆ&458&ˆ<br>X | ˆ&459&ˆ<br>Y | ˆ&45A&ˆ<br>Z |
| ˆ&45B&ˆ<br>[ | ˆ&45C&ˆ<br>\ | ˆ&45D&ˆ<br>] |

| | | |
|---|---|---|
| ˆ&45E&ˆ<br>^ | ˆ&45F&ˆ<br>_ | ˆ&460&ˆ<br>` |
| ˆ&461&ˆ<br>a | ˆ&462&ˆ<br>b | ˆ&463&ˆ<br>c |
| ˆ&464&ˆ<br>d | ˆ&465&ˆ<br>e | ˆ&466&ˆ<br>f |
| ˆ&467&ˆ<br>g | ˆ&468&ˆ<br>h | ˆ&469&ˆ<br>i |
| ˆ&46A&ˆ<br>j | ˆ&46B&ˆ<br>k | ˆ&46C&ˆ<br>l |
| ˆ&46D&ˆ<br>m | ˆ&46E&ˆ<br>n | ˆ&46F&ˆ<br>o |
| ˆ&470&ˆ<br>p | ˆ&471&ˆ<br>q | ˆ&472&ˆ<br>r |
| ˆ&473&ˆ<br>s | ˆ&474&ˆ<br>t | ˆ&475&ˆ<br>u |
| ˆ&476&ˆ<br>v | ˆ&477&ˆ<br>w | ˆ&478&ˆ<br>x |
| ˆ&479&ˆ<br>y | ˆ&47A&ˆ<br>z | ˆ&47B&ˆ<br>{ |

| | | |
|---|---|---|
| ˆ&47C&ˆ <br> \| | ˆ&47D&ˆ <br> } | ˆ&47E&ˆ <br> ~ |
| ˆ&47F&ˆ <br> DEL | ˆ&480&ˆ <br> Caps Lock | ˆ&481&ˆ <br> F1 |
| ˆ&482&ˆ <br> F2 | ˆ&483&ˆ <br> F3 | ˆ&484&ˆ <br> F4 |
| ˆ&485&ˆ <br> F5 | ˆ&486&ˆ <br> F6 | ˆ&487&ˆ <br> F7 |
| ˆ&488&ˆ <br> F8 | ˆ&489&ˆ <br> F9 | ˆ&48A&ˆ <br> F10 |
| ˆ&48B&ˆ <br> F11 | ˆ&48C&ˆ <br> F12 | ˆ&48D&ˆ <br> PrintScreen |
| ˆ&48E&ˆ <br> Scroll Lock | ˆ&48F&ˆ <br> Pause | ˆ&490&ˆ <br> Insert |
| ˆ&491&ˆ <br> Home | ˆ&492&ˆ <br> PageUp | ˆ&493&ˆ <br> Delete |
| ˆ&494&ˆ <br> PageDown | ˆ&495&ˆ <br> End | ˆ&496&ˆ <br> RightArrow |
| ˆ&497&ˆ <br> LeftArrow | ˆ&498&ˆ <br> DownArrow | ˆ&499&ˆ <br> UpArrow |

| | | |
|---|---|---|
| ^&49A&^<br>Num Lock(keypad) | ^&49B&^<br>/(keypad) | ^&49C&^<br>*(keypad) |
| ^&49D&^<br>-(keypad) | ^&49E&^<br>+(keypad) | ^&49F&^<br>Enter(keypad) |
| ^&4A0&^<br>1(keypad) | ^&4A1&^<br>2(keypad) | ^&4A2&^<br>3(keypad) |
| ^&4A3&^<br>4(keypad) | ^&4A4&^<br>5(keypad) | ^&4A5&^<br>6(keypad) |
| ^&4A6&^<br>7(keypad) | ^&4A7&^<br>8(keypad) | ^&4A8&^<br>9(keypad) |
| ^&4A9&^<br>0(keypad) | ^&4AA&^<br>.(keypad) | AB~CF<br>保留<br>待用 |

## Add Ctrl、Shift、Alt、GUI function

Need to pay attention: there must be a press, there must be a release, the press and release must be used in pairs
Otherwise, there will be hotkey problems such as data not uploading and the computer's inexplicable lock screen.

| | | |
|---|---|---|
| ^&4D0&^<br>L-Ctrl Press | ^&4D1&^<br>L-Shift Press | ^&4D2&^<br>L-Alt Press |
| ^&4D3&^<br>L-GUI Press | ^&4D4&^<br>R-Ctrl Press | ^&4D5&^<br>R-Shift Press |
| ^&4D6&^<br>R-Alt Press | ^&4D7&^<br>R-GUI Press | |

| | | |
|---|---|---|
| ^&4D8&^<br>L-Ctrl Release | ^&4D9&^<br>L-Shift Release | ^&4DA&^<br>L-Alt Release |
| ^&4DB&^<br>L-GUI Release | ^&4DC&^<br>R-Ctrl Release | ^&4DD&^<br>R-Shift Release |
| ^&4DE&^<br>R-Alt Release | ^&4DF&^<br>R-GUI Release | E0~FF<br>Reserve |