

# Wireless 2D Barcode Scanner Full Manual

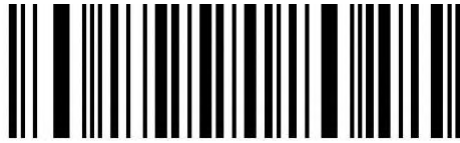
V4.5

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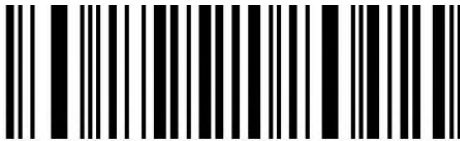
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## Version No.



Version Number

## Factory Default Setting



Restore Factory Default

Note: the asterisk(\*) is the factory default.

## Output Mode



USB priority output(\*)

Note: When inserting USB cable, data only output by USB.



Output at the same time

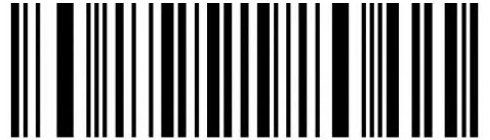
Note: USB and 2.4G or Bluetooth output at the same time (depending on the communication mode), in which 2.4g or Bluetooth output is unsuccessful, alarm will be given.

## Data Transfer Mode



Immediate Mode

Note: The scanned data will be uploaded immediately, and the data will not be saved if the transmission fails.



Inventory Mode

Note: The scanned barcodes will be saved automatically, please scan setting codes if you need to view statistical data or upload data.



Automatic storage mode

Note: When the distance is beyond, the data will be saved automatically. please scan setting code 'upload all data' when you need to uploaded the saved data.

## Communication Mode



2.4G Mode(\*)

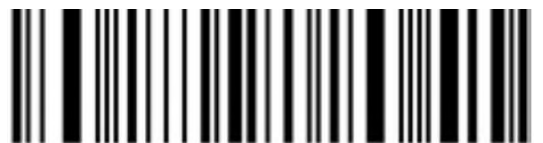


2.4G Pairing



Bluetooth HID Mode

Note: Please scan 'Bluetooth HID pairing' setting code if you need to pair the scanner with a new device.

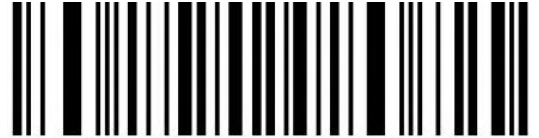


Bluetooth HID pairing



### Bluetooth BLE Mode

Please download or develop low-power Bluetooth BLE transmission software if you need to use this function.



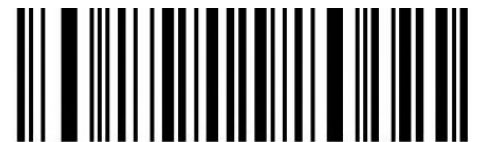
### Bluetooth SPP Mode

Please download or develop low-power Bluetooth SPP transmission software if you need to use this function.

## USB interface type



### USB-HID(\*)



### USB-VCOM

## USB-HID Data type



### Transfer keyboard function keys



### Send ASCII

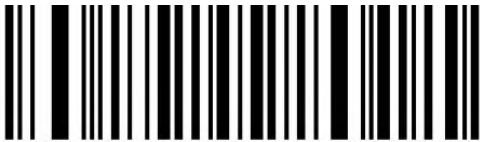


Keyboard+ASCII Mode 1



> 0x1F Send ASCII Mode 2

## Inventory Mode



Clear All Saved Data



Statistical Information



Upload All Data

## Sound Set



Mute



High(\*)

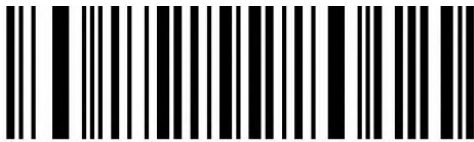


Medium



Low

## Sleep Time Set



No Sleep



Sleep Now



10S

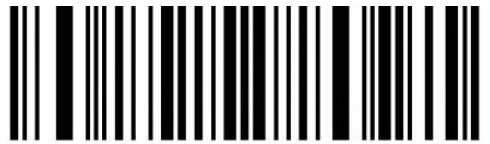


30S



1Min(\*)





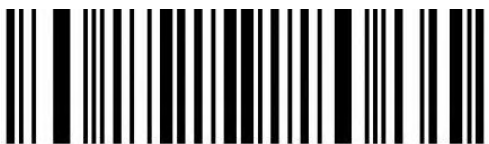
2Min



5Min



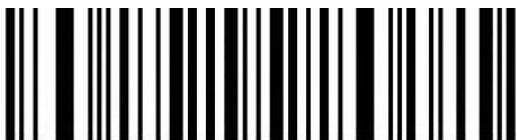
10Min



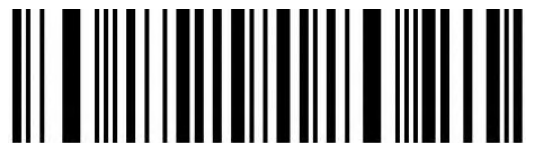
30Min

Note: Keep pressing the button until you hear the first beep for about 8 seconds, release the button and the scanner will enter sleep.

## GS (group separator) characters conversion



None(\*)



GS converts to <GS>



GS converts to |



GS converts to ]



GS converts to ^]

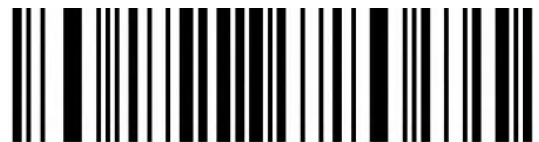


GS converts to F8

## Letter case conversion



Normal Letter Case(\*)



All Uppercase



All Lowercase

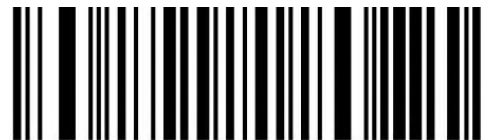


Case Inversion

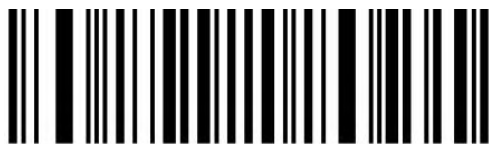
# Language Set



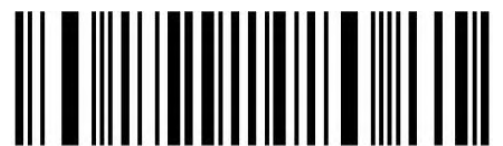
USA(\*)



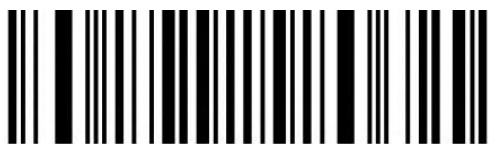
German



France



Italy



Canadian



Spain



Brazil



Sweden



Portugal



Belgium



TurkeyF



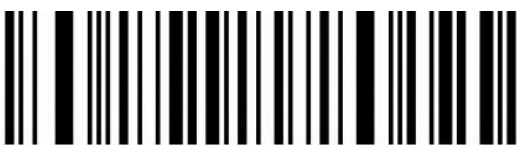
TurkeyQ



Italian14



Netherlands



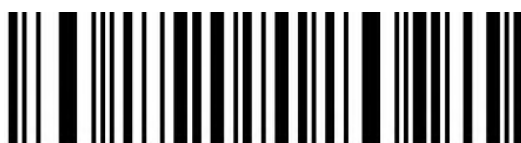
Poland



Finland



Latin America



Serbia



Hungary



Denmark



Norway



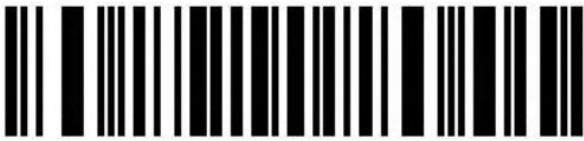
Japan



KORI-8 Convert to Russian



UTF-8 Convert to Turkey



UTF-8 Convert to Czech



Czech

## Code ID

### Output Options



Off (Default)



Before Switch on



After Switch On

# AIM ID



Off (Default)



Before Switch On



After Switch On

## Inverse color barcode selection

(Only 1D/DataMatrix/Aztec)



Normal Color



Inverse Color



Both (Normal/Inverse)

## Barcode Type Selection

### Enable/Disable All barcodes

Enable all barcodes will low down decoding speed. So, we suggest you switch on scanner when needed.  
(Default is switch on state)



Enable All



Disable All

### Enable/Disable All 1D barcodes



Enable All



Disable All

### Enable/Disable All 2D barcodes





Enable All



Disable All

## Codabar



Enable



Disable

## Codabar Start/Terminal Character



Not Send Codabar Start/Terminal Character (Default)



Send Codabar Start/Terminal Character

## Set Length Range For Codabar



Minimum Length (0~50bit)



Maximum Length (0~50bit)

## Code 39



Enable



Disable

## Code 39 Parity Check



Disable (Default)



Enable But Not Transfer



Enable & Transfer

**Code 39 Full ASCII**



Enable



Disable (Default)

**Set Length Range For Code 39**



Minimum Length (0~50bit)



Maximum (0~50bit)

**Code 32(Enable code39 first)**



Enable



Disable

## Code 32 Prefix



Enable



Disable

## Interleaved 2 of 5 (ITF25)



Enable



Disable

## Interleaved 2 of 5 (ITF25) Check Bit



Disable Check Bit (Default)



Enable Check and Not Send Check Bit



Enable Check & Send Check Bit

## Interleaved 2 of 5 (ITF25) Length Selection



Random Length (6-50bit) (Default)



6 Bit



8 Bit



10 Bit



12 Bit



14 Bit



16 Bit



18 Bit



20 Bit



22 Bit



24 Bit

## Set Length Range for Interleaved 2 of 5



Minimum (0~50bit)



Maximum (0~50bit)

## Industrial 2 of 5



Enable



Disable

## Set Length Range for Industrial 2 of 5



Minimum (0~50bit)



Maximum (0~50bit)

## Matrix 2 of 5 (4-24bit)



Enable



Disable

## Set Length Range for Matrix 2 of 5



Minimum (0~50bit)



Maximum (0~50bit)

## Code 93



Enable





Disable

### Set Length Range for Code 93



Minimum (0~50bit)



Maximum (0~50bit)

### Code 11

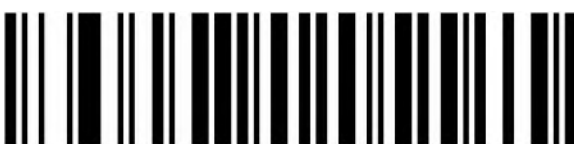


Enable



Disable (Default)

### Code 11 Parity Check Output



Enable



Disable (Default)

### Code 11 Parity Selection



Disable (Default)



1 Bit



2 Bit

### Set Length Range for Code 11



Minimum (0~50bit)



Maximum (0~50bit)

### Code 128

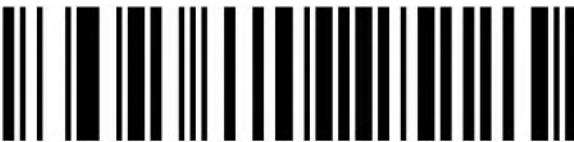


Enable



Disable

### GS1-128



Enable

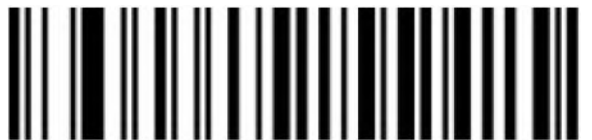


Disable

### Set Length Range for CODE-128



Minimum (0~50bit)



Maximum (0~50bit)

### UPC-A



Enable



Disable

### UPC-A Check Bit



Send UPC-A Check Bit (Default)



Not send UPC-A Check Bit

### UPC-A Convert to EAN-13



Enable UPC-A convert to EAN-13



Disable UPC-A convert to EAN-13 (Default)

### UPC-E

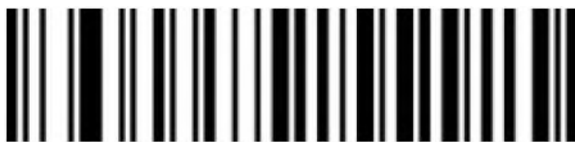


Enable



Disable

### UPC-E Check Bit

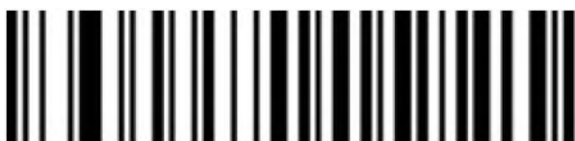


Send UPC-E Check Bit (Default)



Not send UPC-E Check bit

### UPC-E Expand to UPC-A



Enable



Disable (Default)

## EAN/JAN-8



Enable



Disable

## EAN-8 Convert to EAN-13



Disable EAN-8 convert to EAN-13



Enable EAN-8 convert to EAN-13

## EAN/JAN-13



Enable



Disable

## UPC/EAN/JAN Add on code



Ignore UPC/EAN/JAN (Default)



Decode UPC/EAN/JAN



Custom UPC/EAN/JANA add on code

## EAN13 Convert to ISBN



Enable



Disable (Default)

## EAN13 Convert to ISSN



Enable



Disable (Default)

### GS1 DataBar (RSS14)



Enable



Disable

### GS1 DataBar Limited



Enable



Disable



## GS1 DataBar Expanded



Enable



Disable

## PDF417



Enable



Disable

## Micro PDF417



Enable



Disable

## QR Code



Enable



Disable

## QR Code URL Link



Disable



Enable

## Micro QR



Enable



Disable

## Data Matrix



Enable

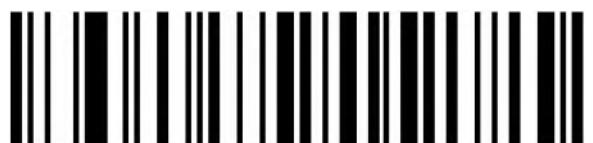


Disable

## Aztec Code



Enable



Disable

## Scan Mode

### Auto Sense Mode off

Decoding by pulling the trigger of the scanner when auto sense mode is off. It's default mode.



Off (Default)

## Auto Sense Mode on

The scanner can sense barcode for decoding automatically.



On

## Repeat Barcode Detection

Use for decode same barcode of interval time, it will decode only one time if not exceeded set time.



500ms



750ms (Default)



1s



2s

## Light Configuration

### LED Indicator Light



Off



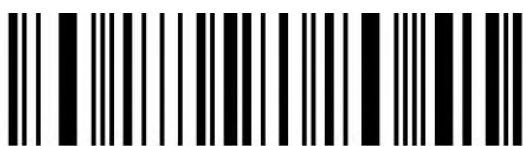
On (Default)

### 2.4G Pairing



2.4G Pairing

### Bluetooth HID Pairing



Bluetooth HID Pairing

## Show or Hide the Keyboard in IOS



Show or hide the virtual keyboard under IOS system

## Bluetooth HID Transfer Rate



Fast



Medium(\*)



Low



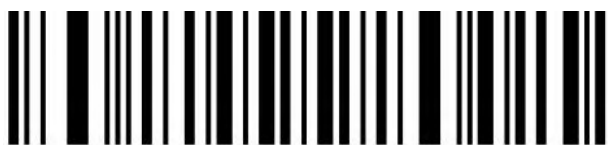
Ultra-low speed



Ultra-fast speed

# Data Editor

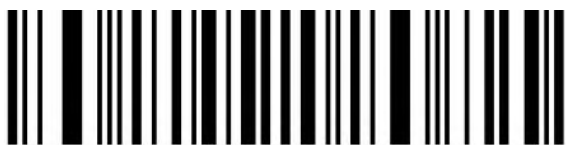
## Suffix Terminator character Setting



Suffix-None



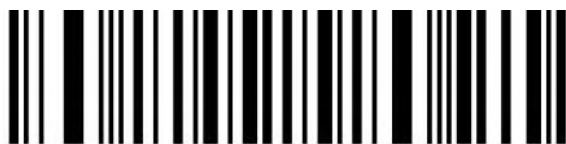
Suffix-Enter(\*)



Suffix-Line



Suffix-Tab

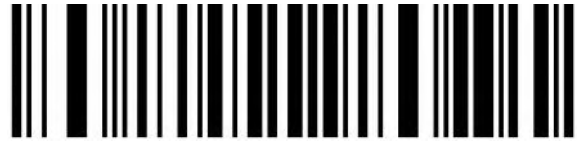


Suffix-Enter&Line

## Hidden character Settings



Hide front character



Hide back character

### Hide front character

Steps:

- (1) Scan the setting code "Hide front character"
- (2) Set the first few digits of the sequence to hide, and use two data codes to represent the decimal number XX
- (3) Set how many digits (including their own data) are hidden from the first few digits in the sequence, using two digits

Data code represents decimal number YY

- (4) Finally scan the setting code "Saved and Finished Set".

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

YY represents how many digits are hidden, that is, how many digits are hidden in the future

For example: the barcode content is: "ABCDEFGHijklmn", hide these characters DEFGH, Make the output bar code "ABCDijklmn".

- (1) Scan the setting code "Hide front character"
- (2) The position of the character 'E' is the 4th bit, so "XX" is '0', '4',  
Look up 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',  
Look up the data code table and scan the data code table '0' and '5' in turn;
- (4) Finally, scan the setting code "Saved and Finished Set".

Remarks: Only operate (1) and (4), then you can clear the character settings before hiding or restore the factory.

### Hide back character

Steps:

- (1) Scan the setting code "Hide back character"
- (2) Set the last few digits of the countdown to be hidden (including its own data), represented by two data codes  
Decimal number XX
- (3) Set the number of digits to be hidden forward from the penultimate digit, and use two data codes to represent decimal  
System number YY

- (4) Finally scan the setting code "Saved and Finished Set".

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

YY represents how many digits are hidden, that is, how many digits are hidden forward



For example: the barcode content is: "ABCDEFGH IJKLMN", hide these characters DEFGH, Make the output bar code "ABCD IJKLMN".

(1) Scan the setting code "Hide front character"

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

Look up 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',

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

(4) Finally, scan the setting code "Saved and Finished Set".

Remarks: Only operate (1) and (4), the character setting after clearing hidden or restoring to factory can also be cleared.

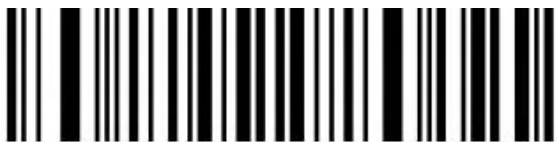
## Add prefix and suffix Settings



Add Prefix setting



Add Suffix Setting



Saved and Finished Set

### Add Prefix Setting

Steps:

(1) Scan the setting code "Add Prefix setting"

(2) Set the first few digits of the sequence to start inserting characters (including its own data), use two-digit "data code"

Represents the decimal number XX (the first setting can be omitted, which is equivalent to setting "0", "1"),

Please check the corresponding data code table

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

(4) Finally scan the setting code "Saved and Finished Set".

For example: the original barcode content is "ABCDEFGH IJKLMN";

The content after adding the prefix is ""ABCDE12345FGH IJKLMN"".

1. Scan the setting code "Add prefix"

2. In the original barcode, the prefix "12345" is added before the character 'F', while the original

The position of the code content 'F' is the 6th character, so the data code "XX" is "0", "6", search the data code table, and scan the barcode corresponding to the data code in turn.  
3. The content added in the original bar code is "12345", a total of 5 characters. Find ASCII Code table, characters "1", "2", "3", "4", "5", corresponding to ASCII code in turn "31", "32", "33", "34", "35", and scan the corresponding barcode in turn

4. Finally scan the setting code "Saved and Finished Set".

Remarks: Only operate (1) and (4), you can also clear the content of adding prefix for clearing or restoring factory.

### **Add Suffix Setting**

Steps:

(1) Scan the setting code "Add Suffix Setting"

(2) Set the penultimate digit to start inserting characters (including its own data), use two-digit "data code"

Represents the decimal number XX (the last can be omitted to set the same as "0", "1"), Please check the corresponding data code table

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

(4) Finally scan the setting code "Saved and Finished Set".

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

The content after adding the prefix is ""ABCDE12345FGHijklmn"".

1. Scan the setting code "Add Suffix Setting"

2. In the original bar code, the suffix "12345" is added after the character 'E', while the original bar code

The position of the code content 'E' is the 10th last character, so the data code "XX"

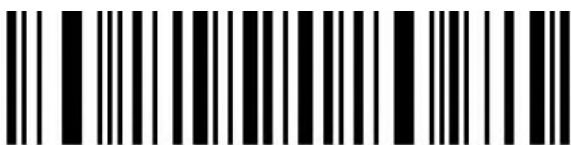
For "1", "0", look up the data code table, and scan the barcode corresponding to the data code in turn.

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

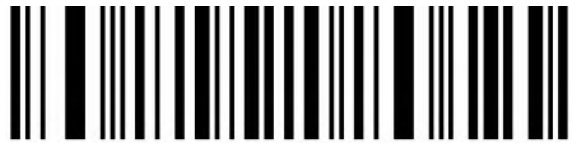
4. Finally scan the setting code "Saved and Finished Set".

Remarks: Only operate (1) and (4), you can also clear the contents of adding suffixes or restoring the factory.

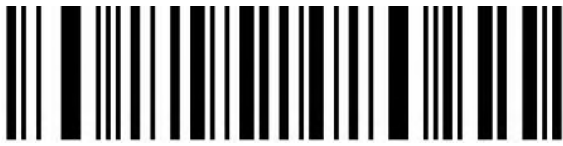
### **Hiding front character shortcut setting**



Hide the first 1 bit



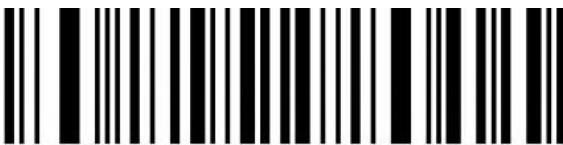
Hide the first 2 bits



Hide the first 3 bits



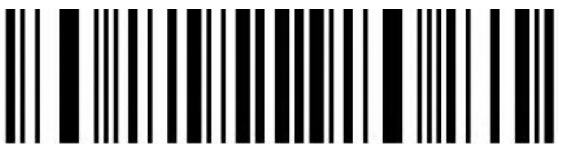
Hide the first 4 bits



Hide the first 5 bits



Hide the first 6 bits



Hide the first 7 bits



Hide the first 8 bits

## Hiding back character shortcut setting



Hide the back 1 bit



Hide the back 2 bits



Hide the back 3 bits



Hide the back 4 bits



Hide the back 5 bits



Hide the back 6 bits



Hide the back 7 bits



Hide the back 8 bits

## Data Code Table



0



1



2



3



4



5



6



7



8



9

## ASCII Code Table



Null



SOH(start of headline)



STX (start of text)



ETX



EOT



ENQ



ACK



BEL



BS



HT



LF



VT



FF



CR



SO



SI



DLE



DC1



DC2



DC3



DC4



NAK



SYN



ETB



CAN



EM



SUB



ESC



FS



GS



RS



US



SP



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4



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f



g



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i



j



k



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m



n



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p



q



r



s



t



u



v



w



x



y



z



{



|



}



~



DEL



Caps Lock



F1



F2



F3



F4



F5



F6



F7



F8



F9



F10



F11



F12



PrintScreen



Scroll Lock



Pause



Insert



Home



PageUp



Delete



PageDown



End



RightArrow



LeftArrow



DownArrow



UpArrow



Num Lock(keypad)



/(keypad)



\*(keypad)



-(keypad)



+(keypad)



Enter(keypad)



1(keypad)



2(keypad)



3(keypad)



4(keypad)



5(keypad)



6(keypad)



7(keypad)



8(keypad)



9(keypad)



0(keypad)



.(keypad)

## Add Ctrl、 Shift、 Alt、 GUI function key

Note: When there is a press, there must be a release. Press and release must be used in pairs  
Otherwise, there will be hot key issues such as data not uploading and computer lock screen



L-Ctrl Press



L-Shift Press



L-Alt Press



M-GUI Press



R-Ctrl Press



R-Shift Press



R-Alt Press



R-GUI Press



L-Ctrl Release



L-Shift Release



L-Alt Release



L-GUI Release



R-Ctrl Release



R-Shift Release



R-Alt Release



R-GUI Release