

2D Wireless Barcode Scanner
PROGRAMING MANUAL



SC430



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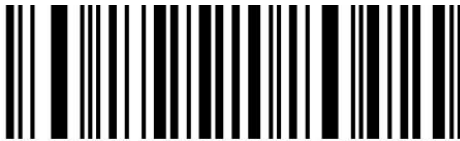
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Version No.



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

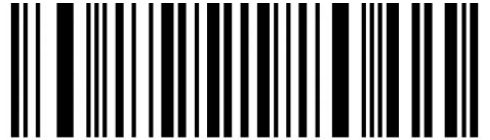
Note: USB and 2.4G or Bluetooth output at the same time (depending on the communication mode), in which 2.4g or Bluetooth output is unsuccessful, alarm will be given.

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

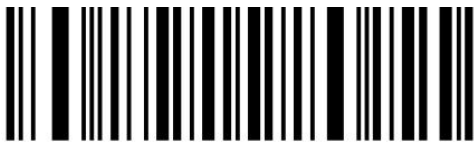
Note: The scanned barcodes will be saved automatically, please scan setting codes if you need to view statistical data or upload data.



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

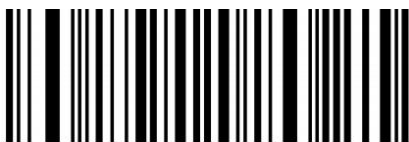


2.4G Mode(*)



Bluetooth HID Mode

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



Bluetooth BLE Mode

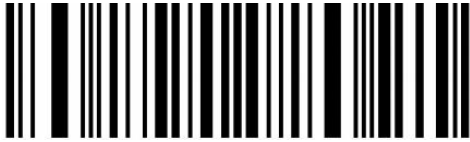
Please download or develop low-power Bluetooth BLE transmission software if you need to use this function.



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

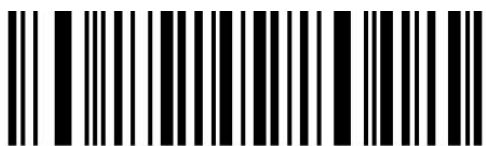


Keyboard+ASCII Mode 1



> 0x1F Send ASCII Mode 2

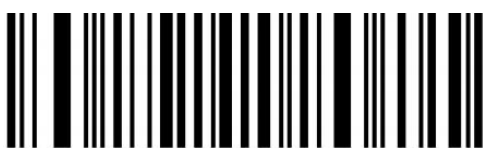
Inventory Mode



Clear All Saved Data

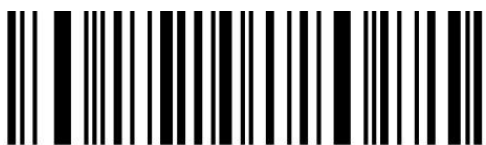


Statistical Information



Upload All Data

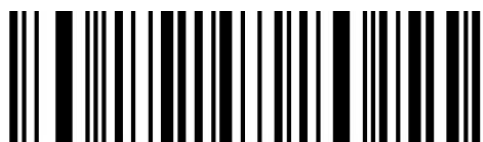
Sound Set



Mute



High(*)



Medium



Low

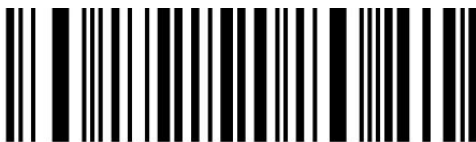
Sleep Time Set



No Sleep



Sleep Now



10S



30S



1Min(*)



2Min



5Min



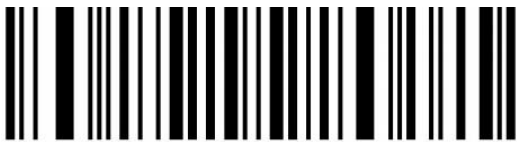
10Min



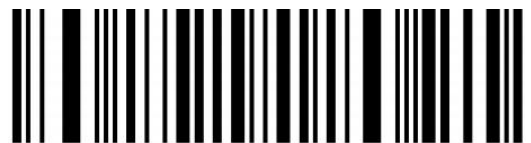
30Min

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

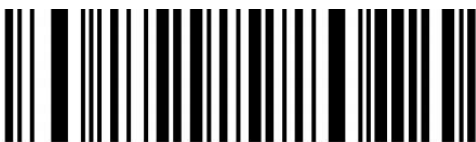


All Lowercase

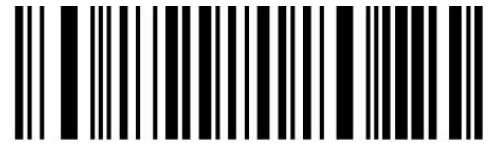


Case Inversion

Language Set



USA(*)



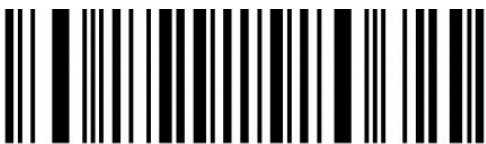
German



France



Italy



Canadian



Spain



Brazil



Sweden



Portugal



Belgium



TurkeyF



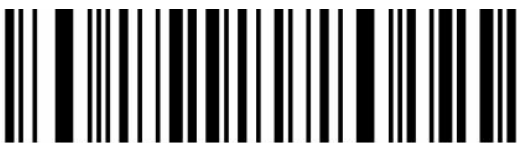
TurkeyQ



Italian14



Netherlands



Poland



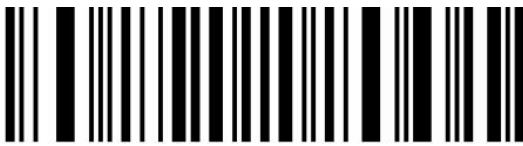
Finland



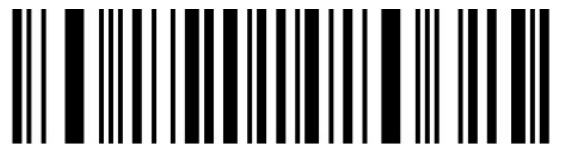
Latin America



Serbia



Hungary



Denmark



Norway



Japan



KORI-8 Convert to Russian



UTF-8 Convert to Turkey



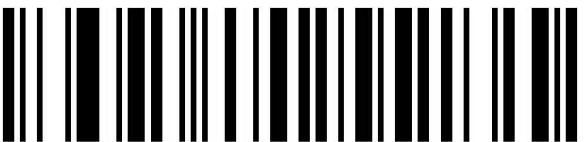
UTF-8 Convert to Czech



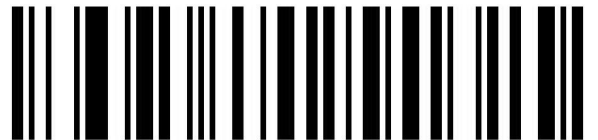
Czech

Code ID

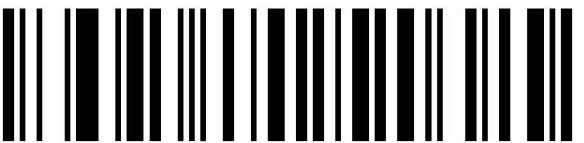
Output Options



Off (Default)



Before Switch on

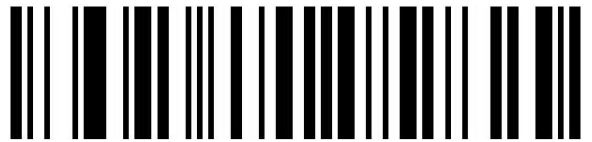


After Switch On

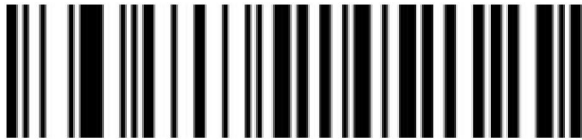
AIM ID



Off (Default)



Before Switch On



After Switch On

Inverse color barcode selection

(Only 1D/DataMatrix/Aztec)



Normal Color



Inverse Color

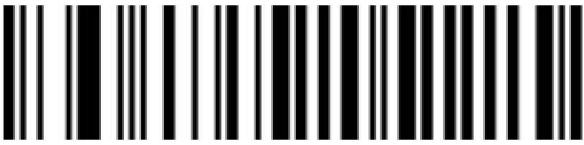


Both (Normal/Inverse)

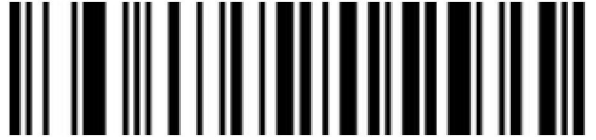
Barcode Type Selection

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)

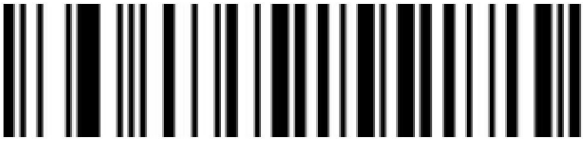


Enable All

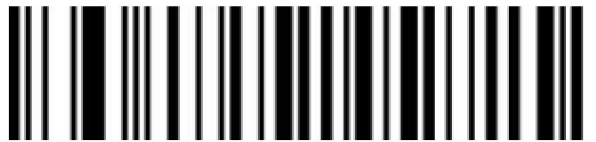


Disable All

Enable/Disable All 1D barcodes

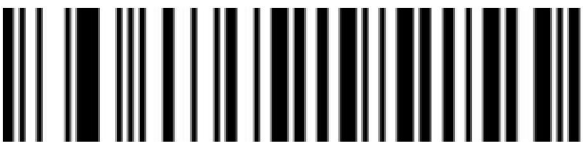


Enable All



Disable All

Enable/Disable All 2D barcodes

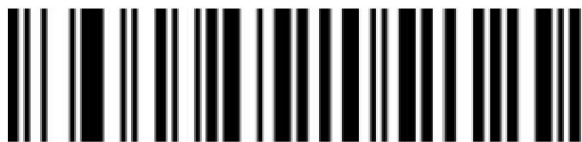


Enable All



Disable All

Codabar



Enable

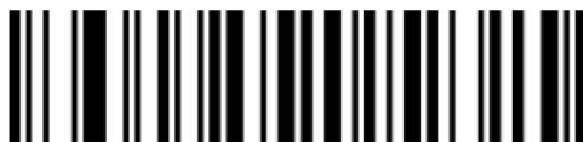


Disable

Codabar Start/Terminal Character

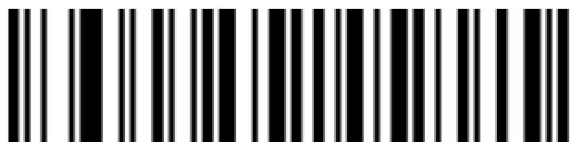


Not Send Codabar Start/Terminal Character (Default)

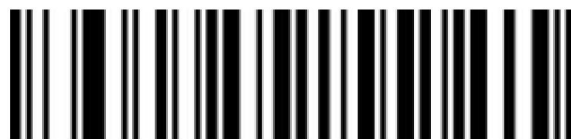


Send Codabar Start/Terminal Character

Set Length Range For Codabar



Minimum Length (0~50bit)



Maximum Length (0~50bit)

Code 39

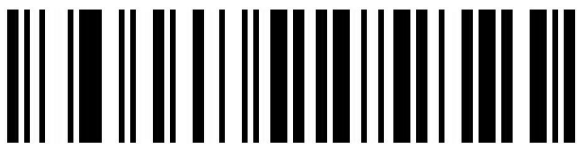


Enable



Disable

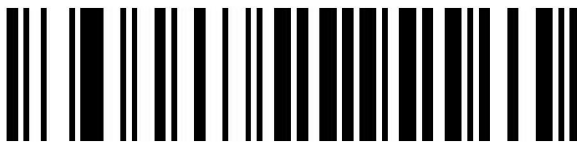
Code 39 Parity Check



Disable (Default)

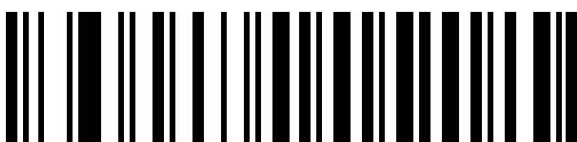


Enable But Not Transfer

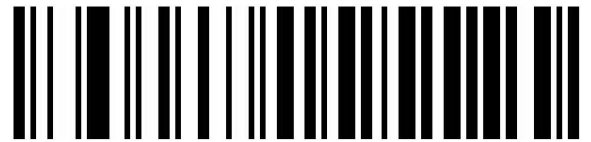


Enable & Transfer

Code 39 Full ASCII

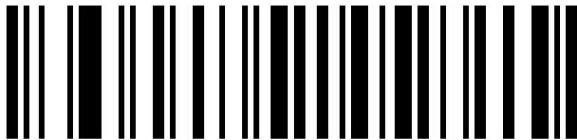


Enable



Disable (Default)

Set Length Range For Code 39

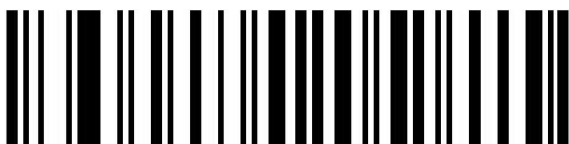


Minimum Length (0~50bit)



Maximum (0~50bit)

Code 32(Enable code39 first)

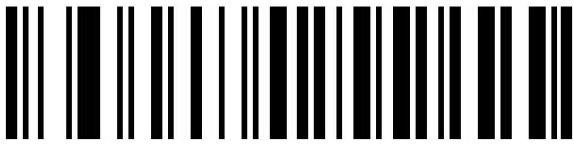


Enable



Disable

Code 32 Prefix



Enable

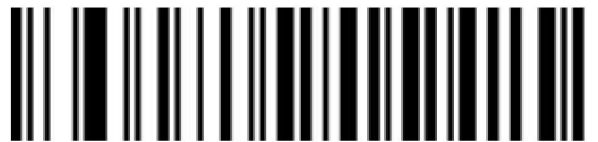


Disable

Interleaved 2 of 5 (ITF25)

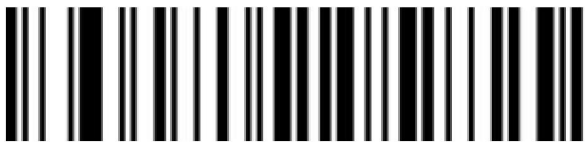


Enable



Disable

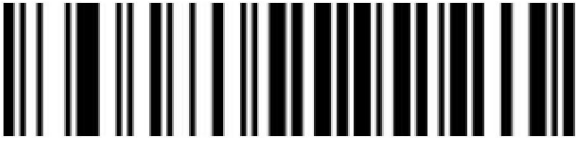
Interleaved 2 of 5 (ITF25) Check Bit



Disable Check Bit (Default)



Enable Check and Not Send Check Bit



Enable Check & Send Check Bit

Interleaved 2 of 5 (ITF25) Length Selection



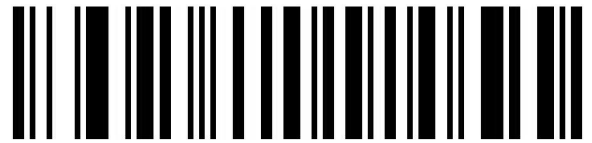
Random Length (6-50bit) (Default)



6 Bit



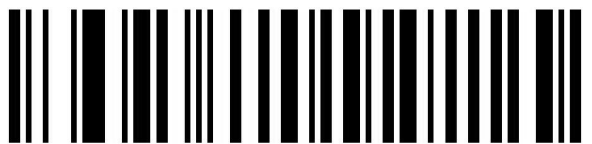
8 Bit



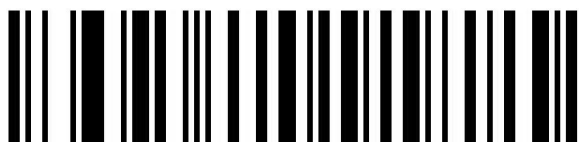
10 Bit



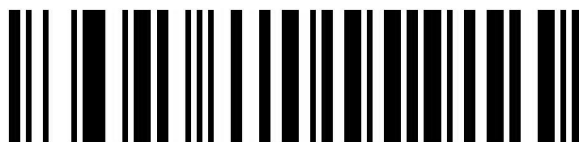
12 Bit



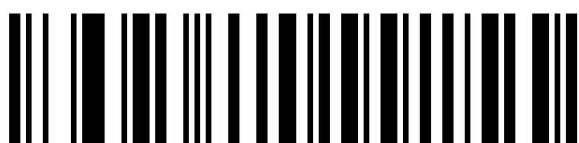
14 Bit



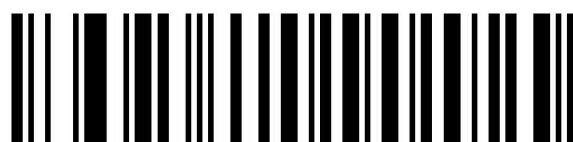
16 Bit



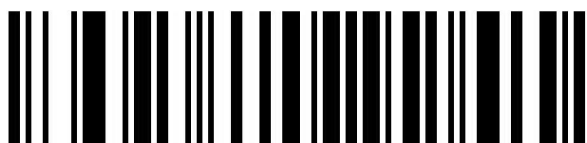
18 Bit



20 Bit



22 Bit

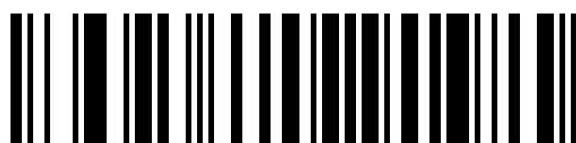


24 Bit

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

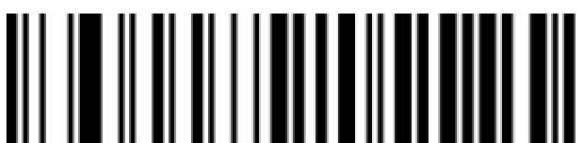


Minimum (0~50bit)

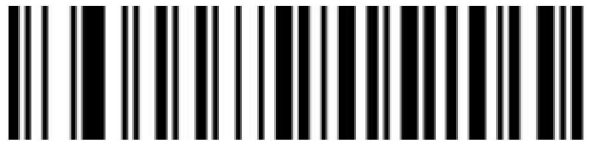


Maximum (0~50bit)

Matrix 2 of 5 (4-24bit)



Enable



Disable

Set Length Range for Matrix 2 of 5

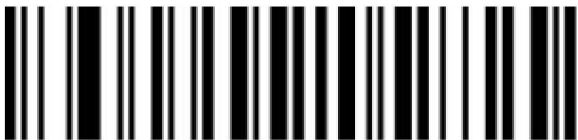


Minimum (0~50bit)

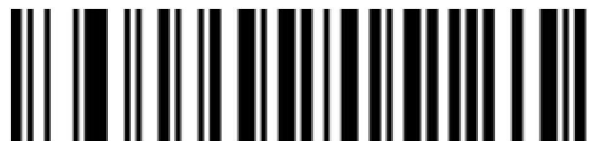


Maximum (0~50bit)

Code 93



Enable

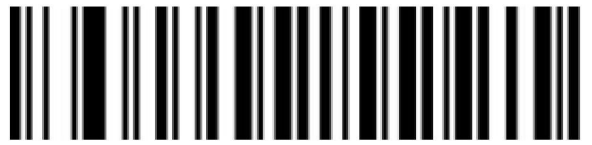


Disable

Set Length Range for Code 93

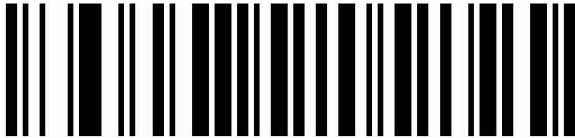


Minimum (0~50bit)

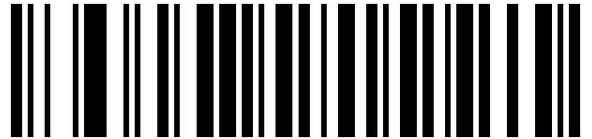


Maximum (0~50bit)

Code 11



Enable

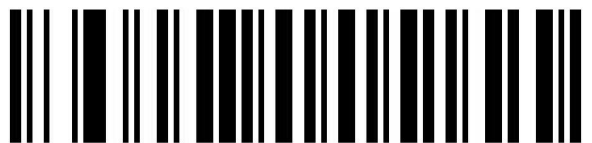


Disable (Default)

Code 11 Parity Check Output

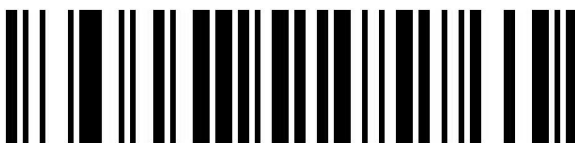


Enable



Disable (Default)

Code 11 Parity Selection



Disable (Default)



1 Bit

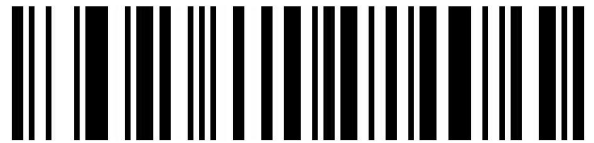


2 Bit

Set Length Range for Code 11



Minimum (0~50bit)



Maximum (0~50bit)

Code 128

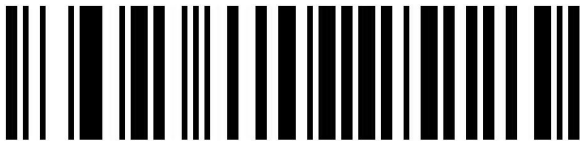


Enable



Disable

GS1-128

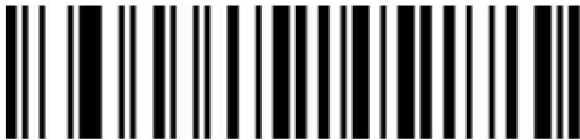


Enable

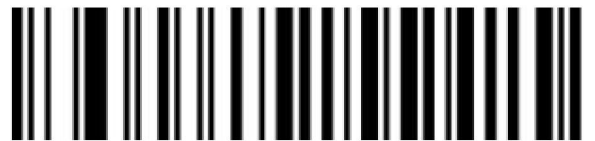


Disable

Set Length Range for CODE-128

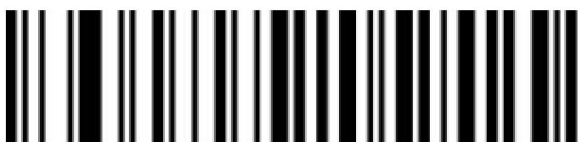


Minimum (0~50bit)



Maximum (0~50bit)

UPC-A

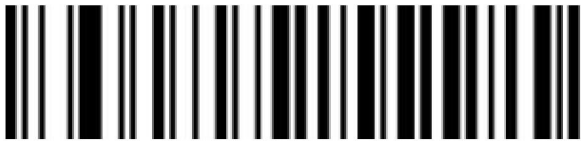


Enable

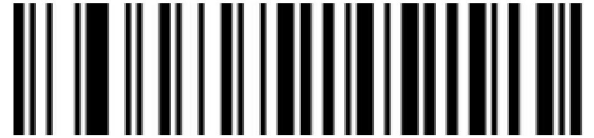


Disable

UPC-A Check Bit

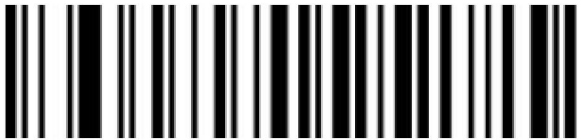


Send UPC-A Check Bit (Default)

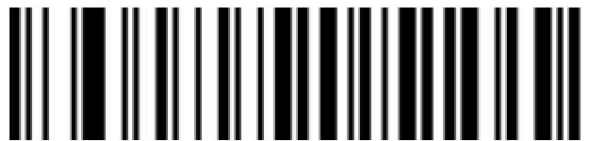


Not send UPC-A Check Bit

UPC-A Convert to EAN-13



Enable UPC-A convert to EAN-13

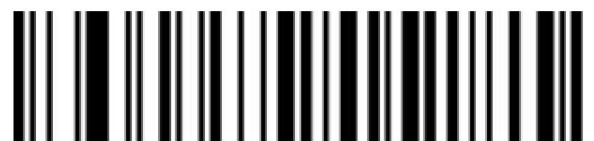


Disable UPC-A convert to EAN-13 (Default)

UPC-E



Enable



Disable

UPC-E Check Bit

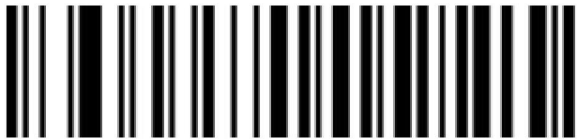


Send UPC-E Check Bit (Default)

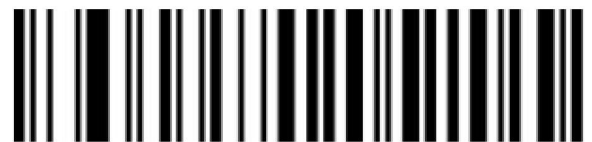


Not send UPC-E Check bit

UPC-E Expand to UPC-A



Enable



Disable (Default)

EAN/JAN-8



Enable

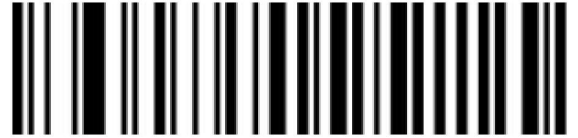


Disable

EAN-8 Convert to EAN-13

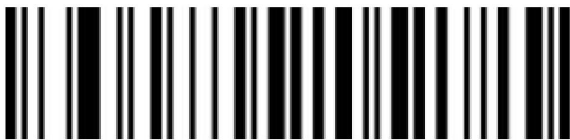


Disable EAN-8 convert to EAN-13



Enable EAN-8 convert to EAN-13

EAN/JAN-13

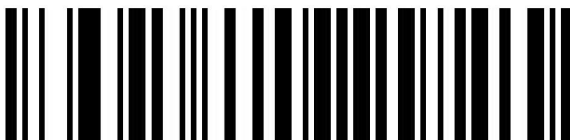


Enable



Disable

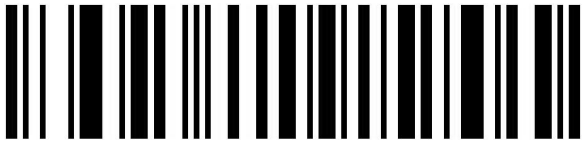
UPC/EAN/JAN Add on code



Ignore UPC/EAN/JAN (Default)



Decode UPC/EAN/JAN

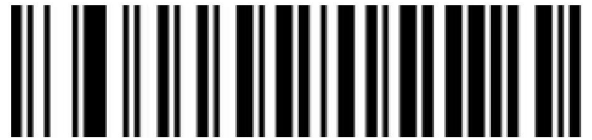


Custom UPC/EAN/JANA add on code

EAN13 Convert to ISBN

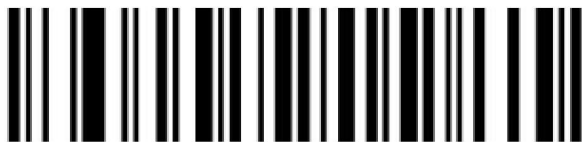


Enable

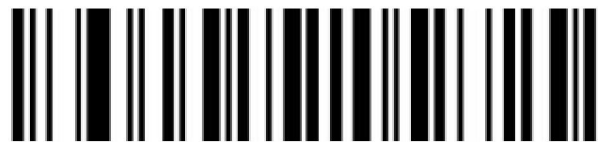


Disable (Default)

EAN13 Convert to ISSN



Enable

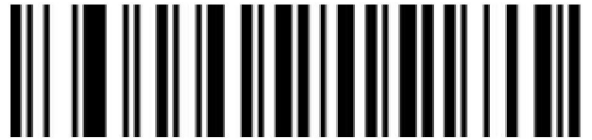


Disable (Default)

GS1 DataBar (RSS14)

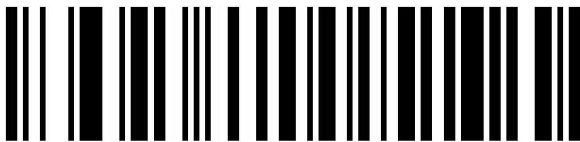


Enable

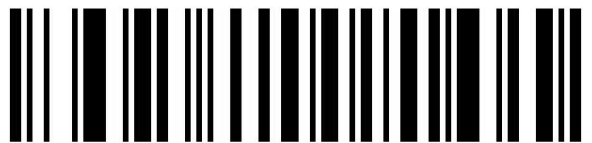


Disable

GS1 DataBar Limited

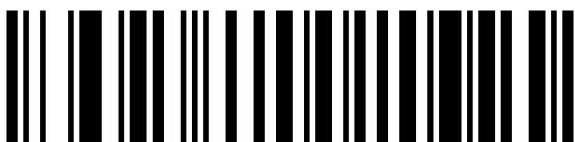


Enable

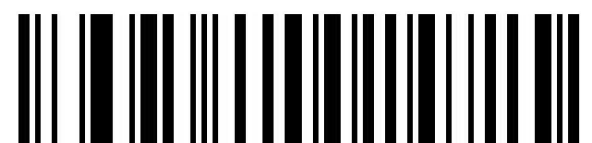


Disable

GS1 DataBar Expanded

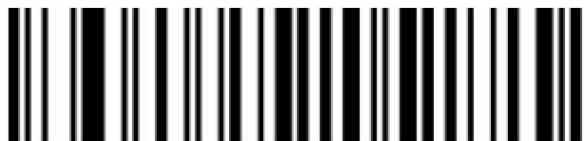


Enable



Disable

PDF417



Enable

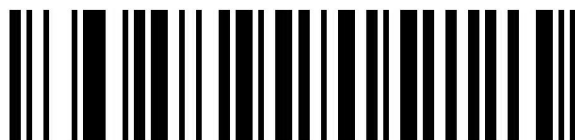


Disable

Micro PDF417

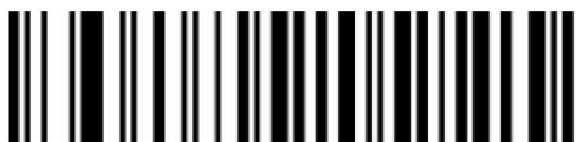


Enable



Disable

QR Code

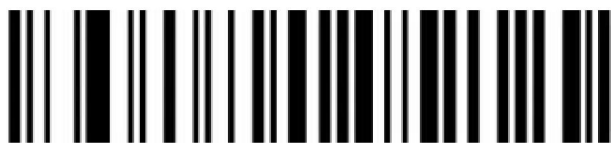


Enable

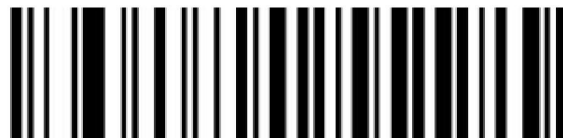


Disable

QR Code URL Link



Disable

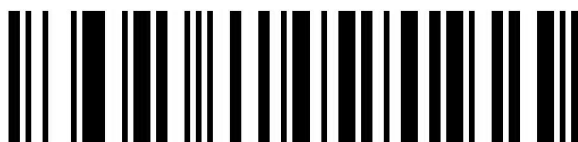


Enable

Micro QR



Enable

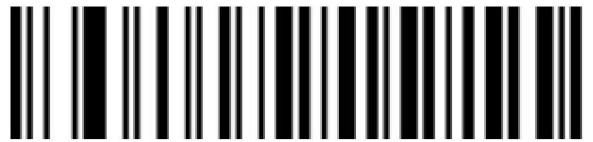


Disable

Data Matrix



Enable

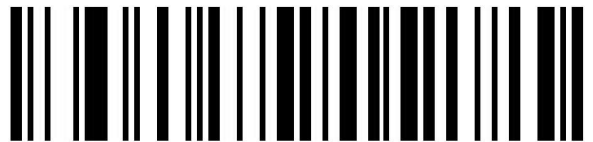


Disable

Aztec Code



Enable

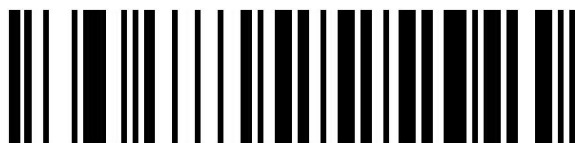


Disable

Scan Mode

Auto Sense Mode off

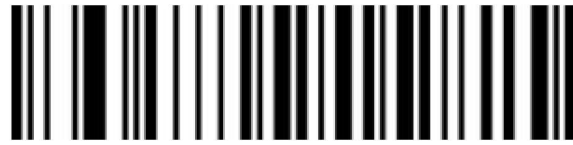
Decoding by pulling the trigger of the scanner when auto sense mode is off. It's default mode.



Off (Default)

Auto Sense Mode on

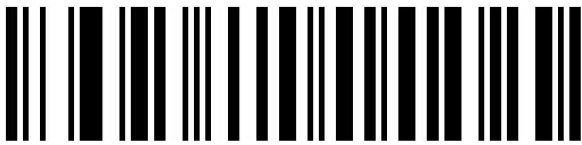
The scanner can sense barcode for decoding automatically.



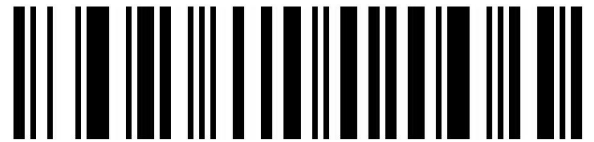
On

Repeat Barcode Detection

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



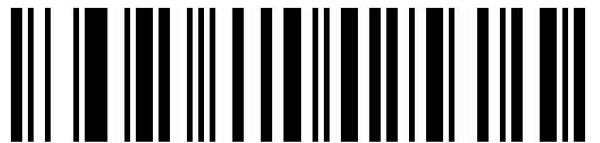
500ms



750ms (Default)



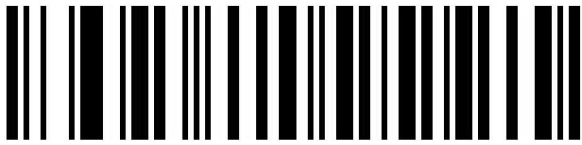
1s



2s

Light Configuration

LED Indicator Light

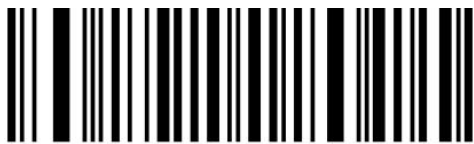


Off



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



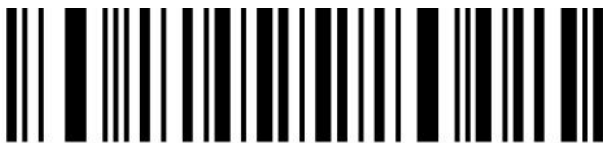
Ultra-low speed



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: "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 '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.

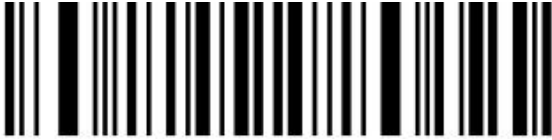
Add prefix and suffix Settings



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 "ABCDEFGHijklmn";

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

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 "ABCDEFGHJKLMN";

The content after adding the prefix is ""ABCDE12345FGHJKLMN"".

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



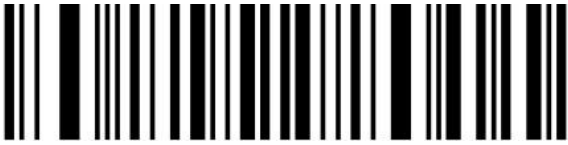
Hide the first 2 bits



Hide the first 3 bits



Hide the first 4 bits



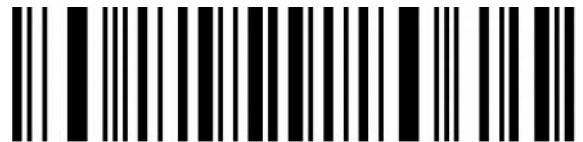
Hide the first 5 bits



Hide the first 6 bits



Hide the first 7 bits



Hide the first 8 bits

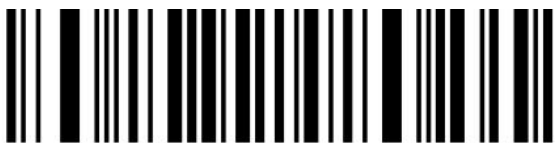
Hiding back character shortcut setting



Hide the back 1 bit



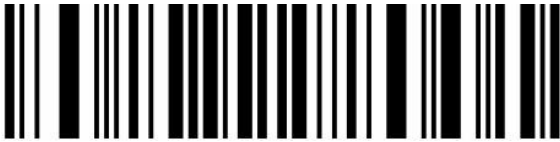
Hide the back 2 bits



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



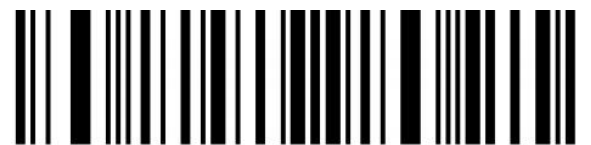
4



5



6



7



8



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



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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