# E10 Barcode Scanner Setting Manual

Factory Default

All barcode scanners have a factory default setting. Reading the "Restore Default Settings" bar code will restore all the barcode scanners' attribute settings to the factory state.
You are most likely to use this barcode in the following situations:
1. The barcode device is set incorrectly, such as the barcode cannot be recognized.
2. You have forgotten what settings have been made to the barcode scanner before, and you don't want to use the previous settings.
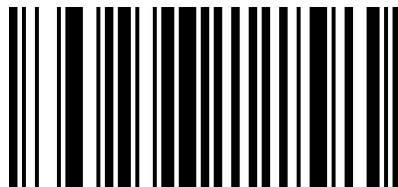3. Set up the barcode scanner to use some infrequently used functions, and use it after completion.
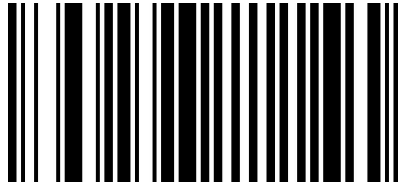
S0001

Restore Default Settings

Version Check

Use the barcode device to scan barcode below, you can view the current version number information of the barcode device

S0000

Version

Turn on/Turn off Configuration Code

The configuration code could be turned off. After the barcode scanner is configured as "Turn on Configuration Code", the setting function will work when the barcode scanner read configuration codes; After the barcode scanner is configured as "Turn off Configuration Code", There will be an error tone from the scan engine when it read the configuration code, the setting function does not work. The default is "Turn on Configuration Code".
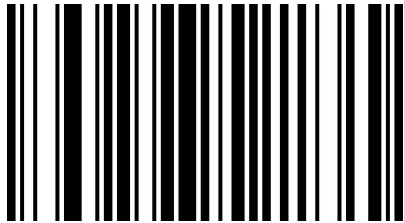
S2000

Turn on Configuration Code*
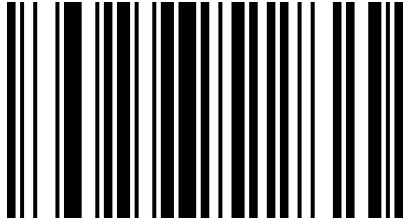

S2001

Turn off Configuration Code

Send configuration code

The content of the configuration code can be allowed to be sent to the host. After reading the "Send Configuration Code" setting successfully, when the configuration code is scanned, the content of the configuration code will be sent to the host. After reading the "Not Send Configuration Code" setting is successful, the content of the configuration code will not be sent to the host when the configuration code is scanned. The default configuration code is not sent.
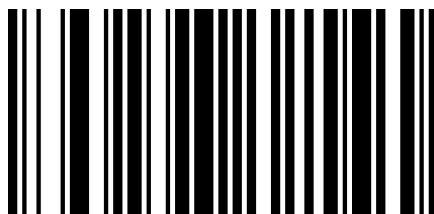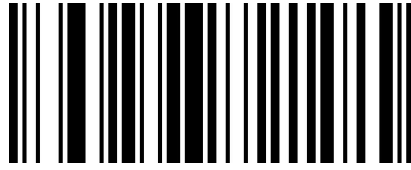
S3000

Send Configuration Code
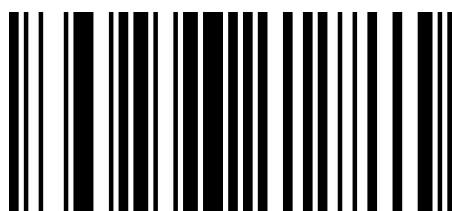
S3001

Not Send Configuration Code

Reading Modes

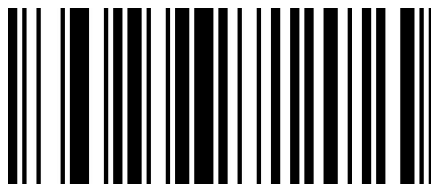**Manual Reading Mode**

|||| ||| ||| || ||| ||| |||

S1000

Manual Reading Mode*

Continuously Reading Mode

After set the barcode scanner as "continuously reading mode", the red light of barcode scanner is always on, it can read barcodes automatically when a barcode passes by. The same barcode cannot be read repeatedly unless it is removed and read again.

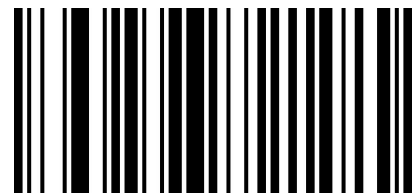||| ||| ||| ||| ||| ||| |||

S1001

Continuously Reading Mode

Auto-Sense Reading Mode

After setting, there is no need to trigger, the barcode scanner will start to detect the environment changing in front of the window. After reading the code, it stops work and is in the monitoring state waiting for the next environmental changing. In this mode, clicking the trigger button can also start code reading.

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S1002   S1000
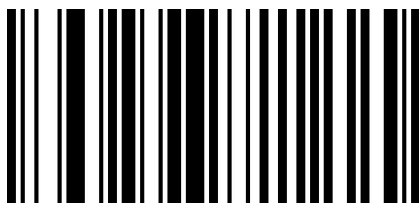
Turn on Auto-Sense Reading Mode   Turn off Auto-Sense Reading Mode*

Note: When using auto-sense reading mode, you need to switch from manual reading mode.

Flashing reading mode (button on)

After setting, you need to manually trigger to start scanning, the red light of the barcode scanner is in the flashing state, and the barcode scanner starts to detect environment changes in front of window. After reading the code, the red light will be on for 3 seconds. If the barcode is not read after 3 seconds, it will automatically enter the flashing state. In this state, press the button to turn on or off the barcode reader at any time
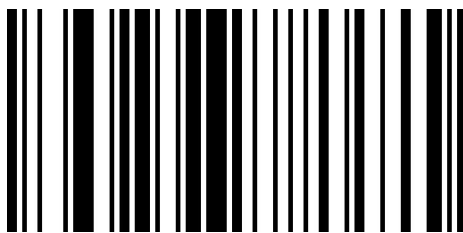

S1003

Flashing reading mode(button on)

Flashing reading mode (button off)

After setting, there is no need to manually trigger, the red light of the bar coder is in the flashing state, and the barcode scanner starts to detect the environment change in front of window. After reading the code, the red light will be on for 3 seconds. If the barcode is not read after 3 seconds, it will automatically enter the flashing state. In this state, the button does not work.
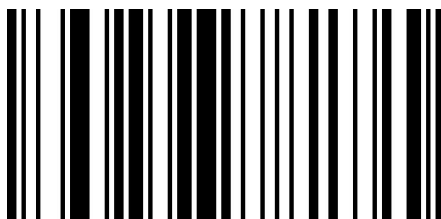

S1004

Flashing reading mode(button off)

Press-key delay single reading mode

After setting, press the trigger button, the red light of the barcode scanner will be on for 3 seconds, the light will be off if it's over 3 seconds without reading barcode, or the light will be off after reading the code, and the key will not work before the light is off. The key timeout time is 3 seconds as default. Can be set for 1-15 seconds
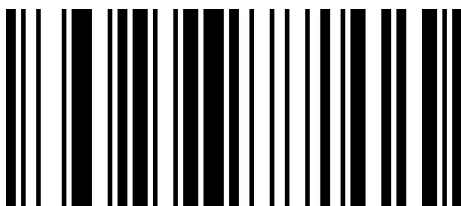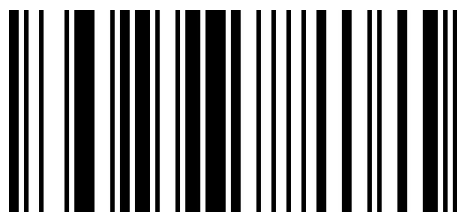
S1005

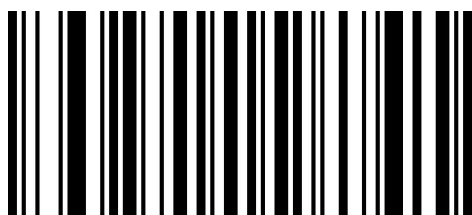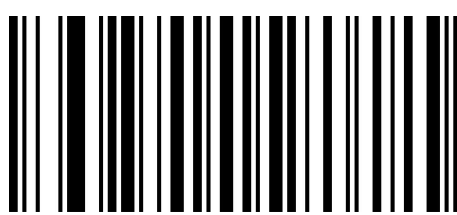Press-key delay single reading mode
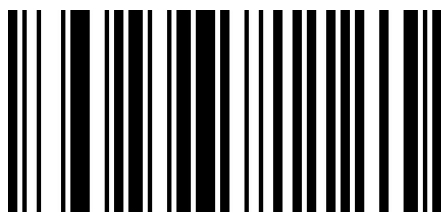
S1101

Timeout 1s

S1103

Timeout 3s*

S110A

Timeout 10s

S110F

Timeout 15s

Prompt sound setting

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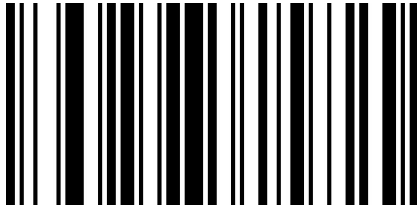
S4020

Turn on power-on prompt *

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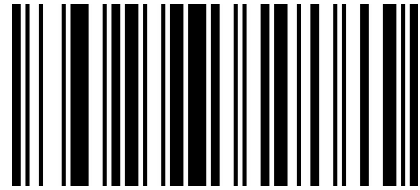
S4021

Turn off power-on prompt

||||| ||| || |||| ||| |||| |||
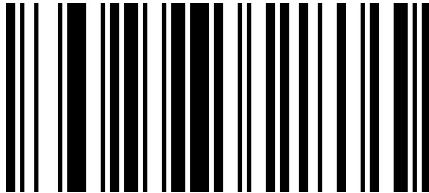
S4000

Turn on configuration code prompt*

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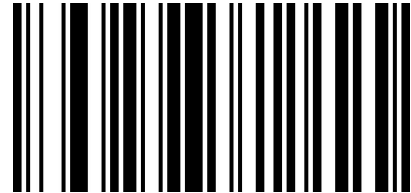
S4001

Turn off configuration code prompt

||| ||| |||| ||| || |||| ||||
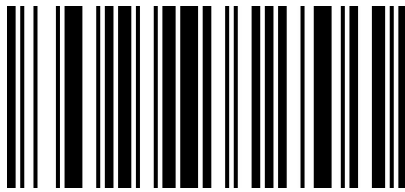
S4030

Turn on reading code prompt*

||| || ||| |||| ||| |||| ||||
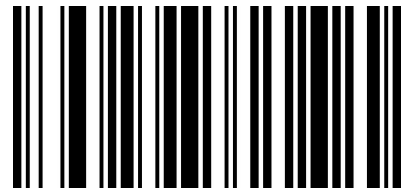
S4031

Turn off reading code prompt

Increase/Decrease the volume

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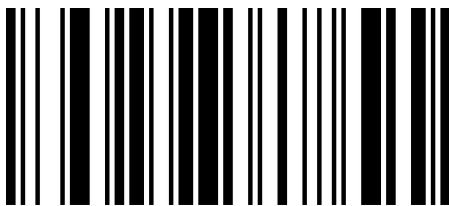
S4011

Increase the volume

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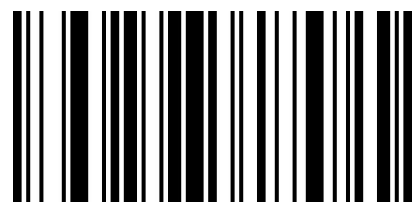
S4010

Decrease the volume

Sound Frequency
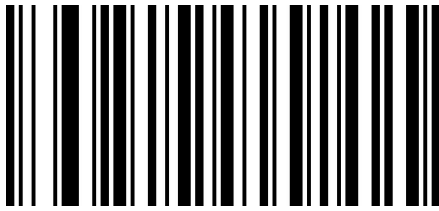
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S43E8

2.0KHZ*
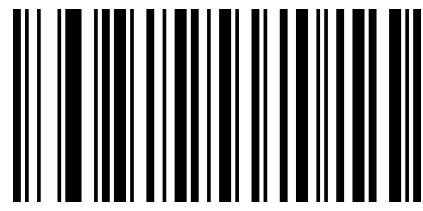
‖‖‖ ‖‖‖‖ ‖‖‖‖ ‖‖‖‖ ‖‖‖
S44E2

2.5KHZ

‖‖‖ ‖‖‖‖ ‖‖‖‖ ‖‖‖‖ ‖‖‖
S4546

2.7KHZ

Data transmission speed

This barcode reader supports adjusting the data transmission speed. For non-standard USB input used by some WINDOWS devices, such as the USB interface converted by PS2, the safety and integrity of the data output can be reduced by appropriately reducing the transmission speed of the barcode, the default is prohibited USB fast transmission, and use the "moderate transmission speed" mode.

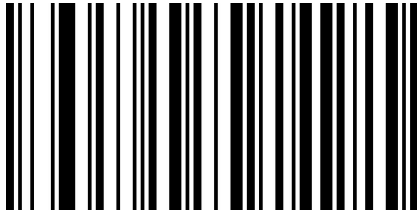The user can further set the transfer speed of the USB device by setting the transfer speed
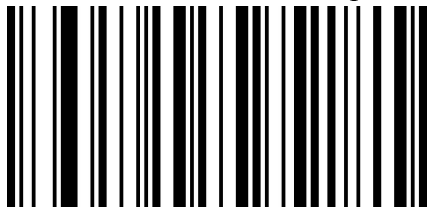
‖‖‖ ‖‖‖‖ ‖‖‖‖ ‖‖‖‖ ‖‖‖
IKDY0

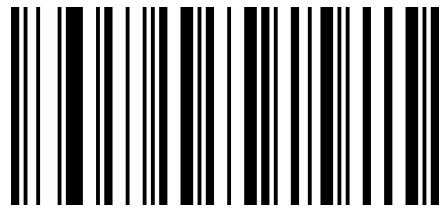Transmission speed no delay

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IKDY2

Transmission speed delays 8ms

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IKDY3

Transmission speed delays 12ms

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IKDY4

Transmission speed delays 16ms
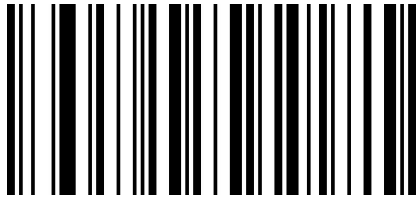
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IKDY5

Transmission speed delays 20ms
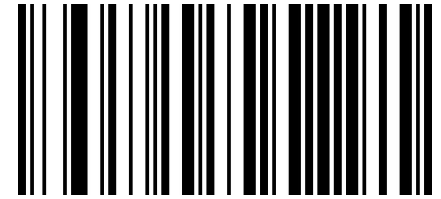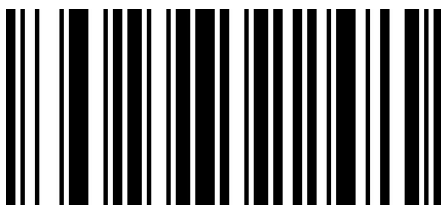
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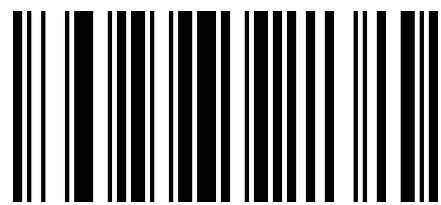IKDY7

Transmission speed delays 28ms

Image recognition method

The barcode reader supports the recognition of reverse color images (reverse white barcodes), users can set if reverse color image recognition is required according to their needs, and the default is forward image recognition

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S5001

Allows recognition of reverse barcodes

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S5000

Prohibit recognition of reverse barcodes

Communication Methods

When using this barcode scanner to communicate with different hosts, the barcode scanner needs to be set to the corresponding communication interface mode. The user can set the function of the barcode scanner by scanning one or more setting bar codes. Users can choose to use USB-KBW, USB-COM, PS2, TTL/RS232 serial communication interface modes, etc.

USB-KBW Mode

This barcode scanner uses USB-KBW communication by default, which simulates USB keyboard input mode, no need to install drivers
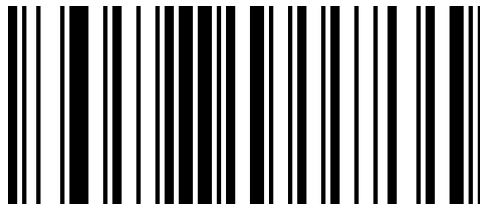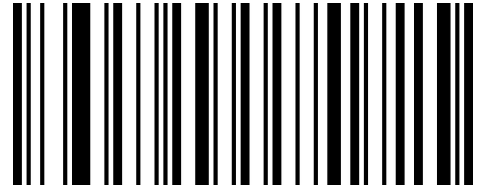

IUKBD
USB-KBW*

Country/language keyboard layout selection

The keyboard key arrangement, symbols, etc. corresponding to different national languages are not the same, and the barcode reader can be virtualized into different national keyboard standards according to actual needs
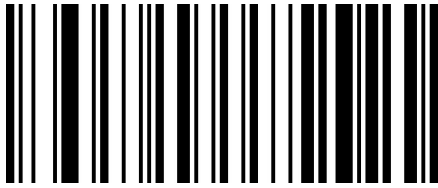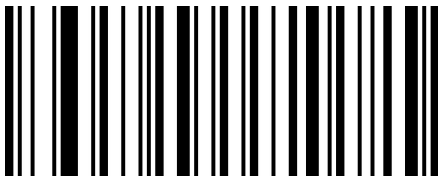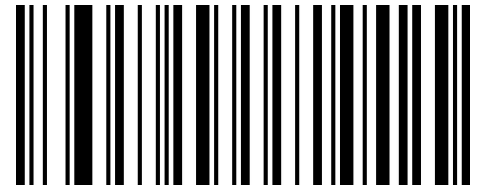
IKBD0

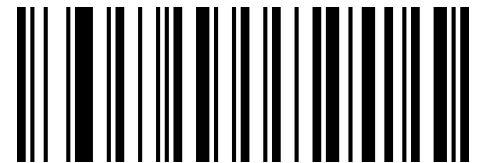USA/China (American English)*

IKBD1

German

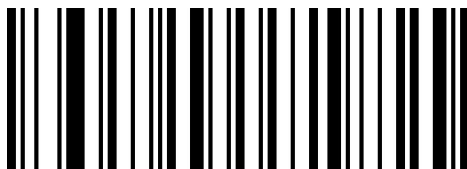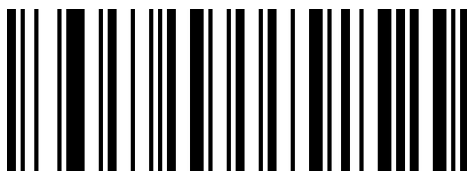IKBD2

French

IKBD3

Italian

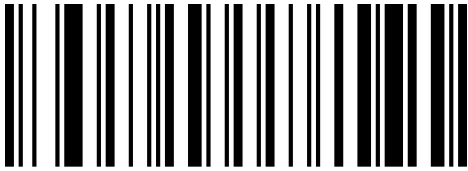IKBD4

British English

IKBD5
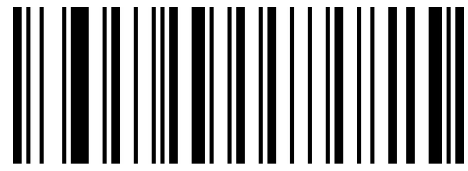
Spanish

IKBD6
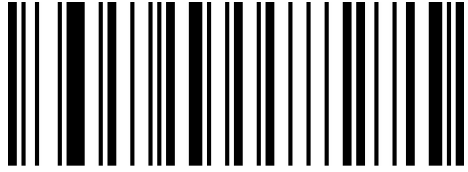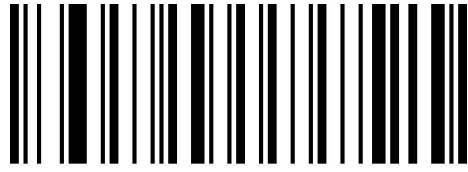
Dutch

IKBD7

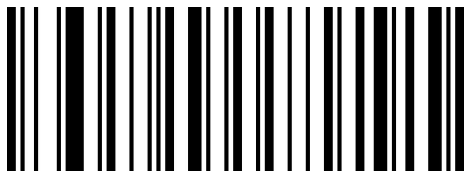Switzerland (Finnish)

IKBD8
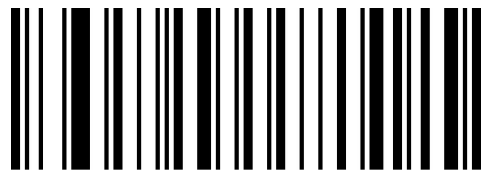
Japanese

IKBD9
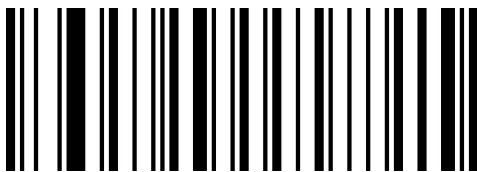
Czech

IKBDA

Danish

IKBDB

Portuguese
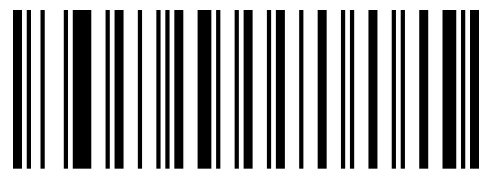
IKBDC

Brazil (Portuguese)

IKBDD

Belgium (French/Dutch)
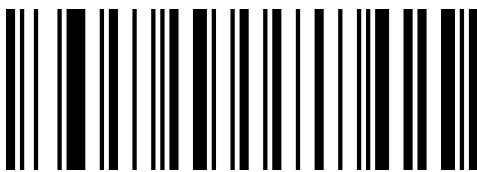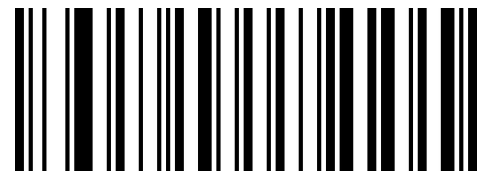
IKBDE

Turkish Q

IKBDF

Turkish F

IKBDG

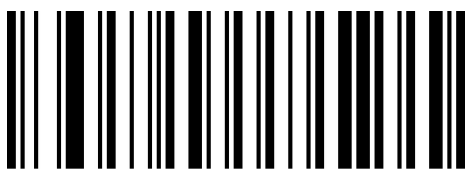Switzerland (German/French)

IKBDH

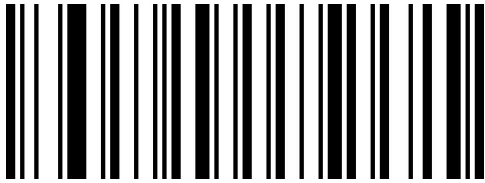Canadian French

IKBDI

Polish

IKBDJ

Hungarian

IKBDK

Croatian

IKBDL

Slovak

IKBDM

Russian

IKBDZ

International keyboard

USB-COM Virtual serial port mode

When the barcode scanner uses the USB communication interface, and the host application program receives data through serial communication, you can set the barcode scanner to the USB virtual serial communication mode. This function requires the corresponding driver to be installed on the host.
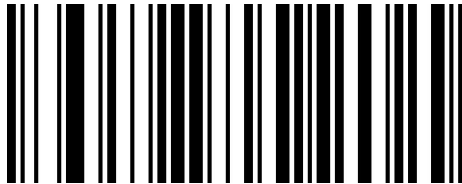
IUCOM

USB-COM

TTL/RS232 Serial communication mode

Serial communication interface is a common way to connect barcode scanner with host devices, and can be used to connect host devices such as PC and POS machines. When the barcode scanner uses the serial communication interface, the barcode scanner and the host device must be completely matched in the serial communication protocol parameter configuration to ensure the accuracy of the transmitted data.
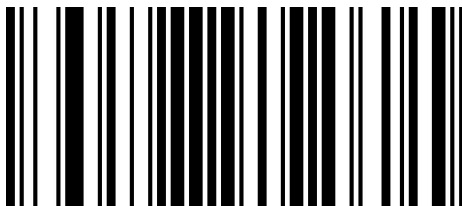
IUSRT

TTL/RS232

Baud rate

The baud rate is the number of bits transmitted per second in serial data communication. The baud rate used by the barcode scanner and the data receiving host must be consistent to ensure the accuracy of data transmission. The barcode scanner supports the baud rates listed below, and the unit is bit/s.
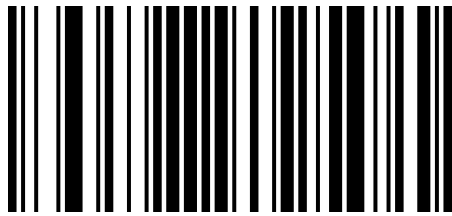
IUSR4

9600bps*

IUSR5

19200bps

IUSR6

38400bps

IUSR7

57600bps

IUSR8

115200bps

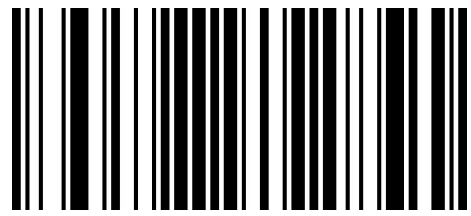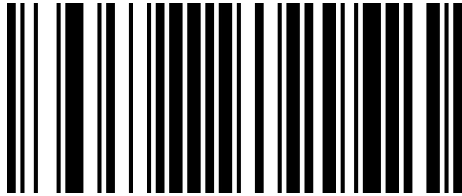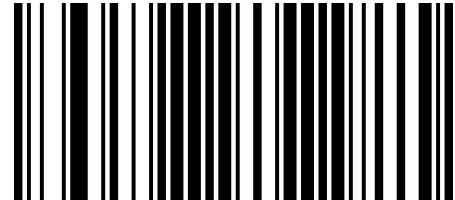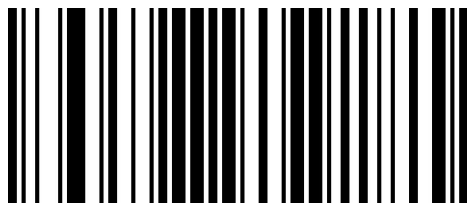## Data editing

After the barcode scanner reads barcodes successfully, the device obtains a string of data, which can be numbers, English, symbols, etc. In practical applications, we may not only need the data information of the bar code, or the data information contained in the bar code cannot meet your needs. For example, you may want to know which type of bar code the data information obtained comes from, or add special data to the data, which may not be included in the data information of the bar code.

Adding these content when making codes will inevitably increase the length of the bar code and is not flexible enough, which is not a recommended practice. At this time, we thought of artificially adding some content before or after the barcode data information, and these added content can be changed in real time according to needs, and you can choose to add or block. This is the prefix and suffix of the barcode data information, and the method of adding the prefix and suffix , Which not only satisfies the demand but does not need to modify the content of the barcode information.

Note: Data editing format: <Code ID><custom prefix><barcode data><custom suffix><terminator>
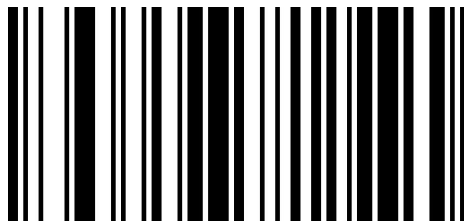
Code ID Setting

In the process of using a barcode scanner, users often need to know the type of barcode currently scanned. We can use the Code ID prefix to identify the barcode type. Please refer to "Appendix-Code ID" for the corresponding barcode type of Code ID. By default, Code ID is not transmitted.
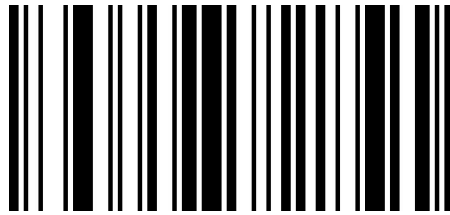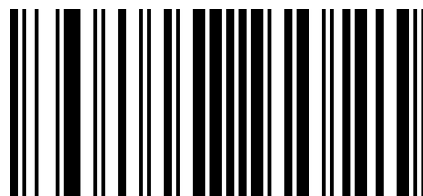

B1100

Transfer CODE ID

B1101

Not Transfer Code ID*

Custom Prefix

First read "Set Custom Prefix", and then scan the character bar code corresponding to "Appendix-Character Table" as required. You can complete the setting. Up to 32 characters can be added to the prefix character.
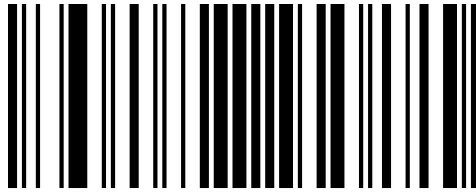

FEPST

Set custom prefix

For example: set the custom prefix to "VC" (the hexadecimal value is 0x56/0x43):
1. Read "Turn on Configuration Code"
2. Read "Set custom prefix" above
3. Read the corresponding barcodes 1086 and 1067 in "Appendix-character table"
4. Read "Exit add prefix and suffix"
5. Read "Close Setting Code"
Note: After setting up according to the above steps, read any bar code, the bar coder will add the custom prefix character string "VC" in front of the bar code data.

Clear all prefix

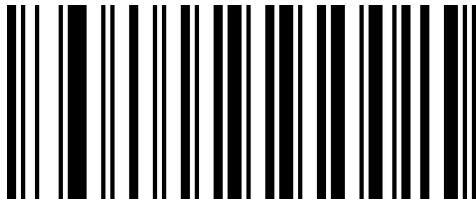Scan the "Clear All Prefix" barcode to clear all set prefix characters.

FCPST

Clear all prefix

Custom Suffix

First read the "Set custom suffix", and then scan the character bar code corresponding to the "Appendix-character table" as required. You can complete the setting. Up to 32 characters can be added to the suffix character.

FESST

Set custom suffix

For example: set the custom prefix to "VC" (the hexadecimal value is 0x56/0x43):
1. Read "Turn on Configuration Code"
2. Read "Set custom suffix" above
3. Read the corresponding barcodes 1086 and 1067 in "Appendix-character table"
4. Read "Exit add prefix and suffix"
5. Read "Close Setting Code"
Note: After setting up according to the above steps, read any bar code, the bar coder will add a custom suffix character string "VC" after the bar code data.

Clear all suffix

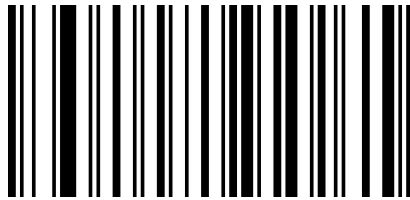Scan the "Clear All Suffixes" barcode to clear all set suffix characters.
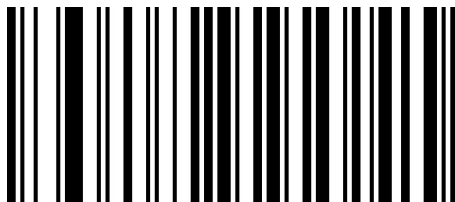
FCSST

Clear all suffix

Note: The clear suffix character does not include the suffix terminator.

Exit add prefix and suffix setting


FEFST

Exit add prefix and suffix

Hide character

Users can hide the barcode output from the barcode device according to their needs. For example, for the barcode "123456", when setting the hidden front 2-digit character, the data received by the host is "3456". When the 2-bit character is set after hiding, the data received by the host is "1234".
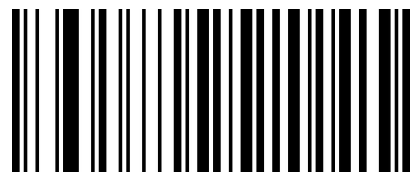
Hide front character

Users can scan the following barcodes according to their needs and set the corresponding digits to hide the front character
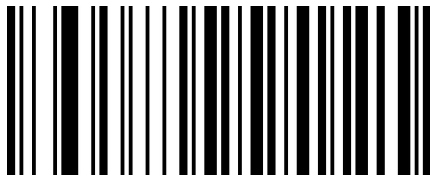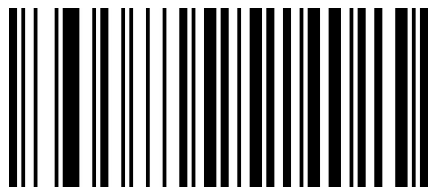

HC001
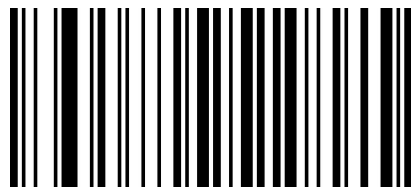
Hide the front 1 bit character
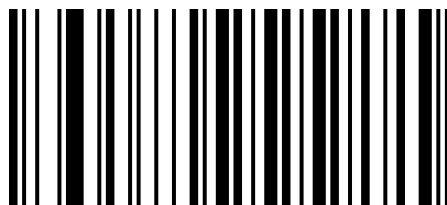

HC002

Hide the front 2 bit character

HC003

Hide the front 3 bit character

HC005

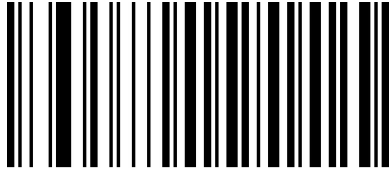Hide the front 5 bit character

Cancel hide front character
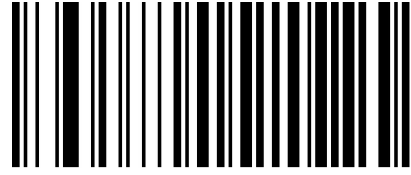

HC000

Cancel hide front character

Hide after character

    Users can scan the following barcodes according to their needs and set the corresponding digits to hide the after character
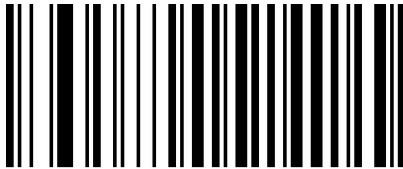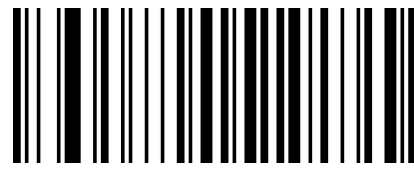
HC101

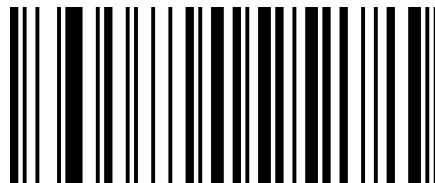Hide the after 1 character

HC102

Hide the after 2 character

HC103

Hide the after 3 character

HC105

Hide the after 5 character

Cancel hide after character

HC100

Cancel hide after character

Hide middle character

Users can scan the following barcodes according to their needs and set the middle character to hide the corresponding digits. The setting procedure consists of two steps. Firstly, scan the M-th starting character to start, and then scan to hide the middle N-bit character. For example, for the barcode "12345678", set the hidden "56" two characters, first scan the 4th character to start, and then scan to hide the middle 2 characters, the data received by the host is "123478"
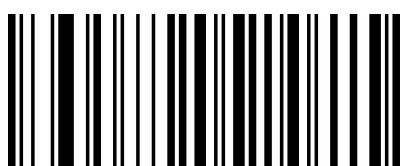
The M-th character starts to set the barcode
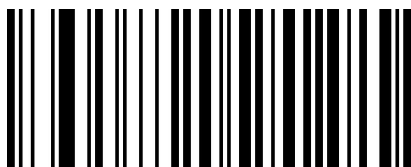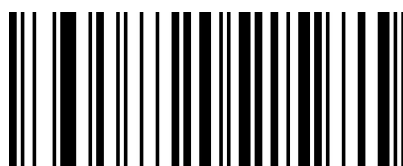
HC201

The 1st character to start
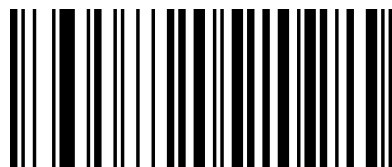
HC202

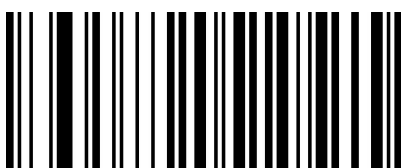The 2nd character to start

HC203
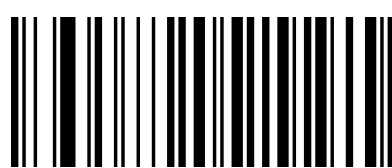
The 3rd character to start

HC204

The 4th character to start

HC205

The 5th character to start

HC206

The 6th character to start
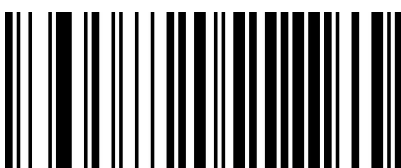
HC207

The 7th character to start
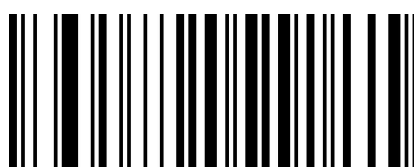
HC208

The 8th character to start

Hide the middle N character
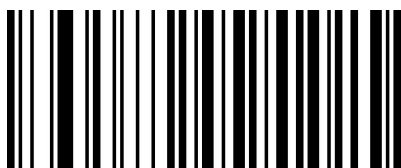
HC301

Hide the middle 1 character

HC302

Hide the middle 2 characters

HC303

Hide the middle 3 characters
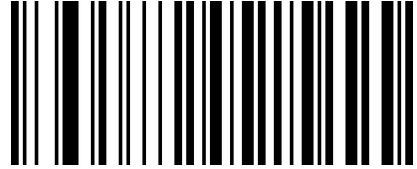
HC304

Hide the middle 4 characters
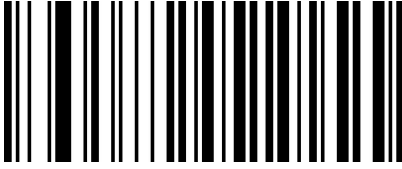
HC305

Hide the middle 5 characters
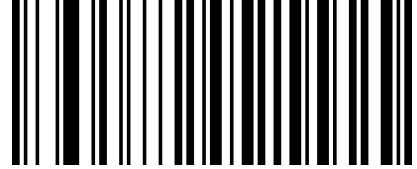
HC306

Hide the middle 6 characters
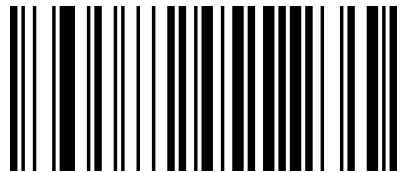
HC307

Hide the middle 7 characters
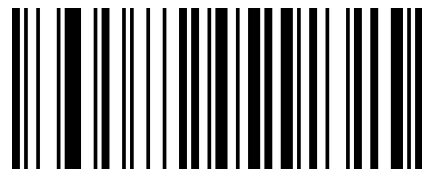
HC308

Hide the middle 8 characters

Cancel hide the middle character
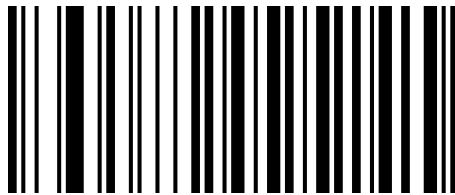
HC300

Cancel hide the middle character

End character setting

The terminator suffix is used to mark the end of a complete data message. The terminator suffix must be the last content when a piece of data is sent, and there will be no additional data after that.
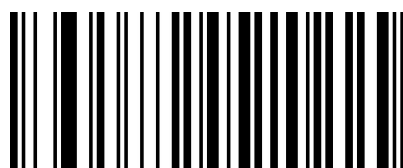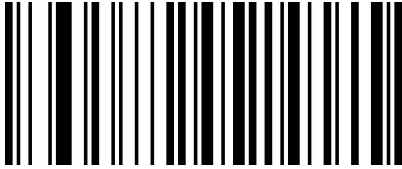
The fundamental difference between the terminator suffix and the custom suffix is that the content of the custom suffix and the decoding information, prefix and other content can be formatted again, but the terminator suffix cannot.
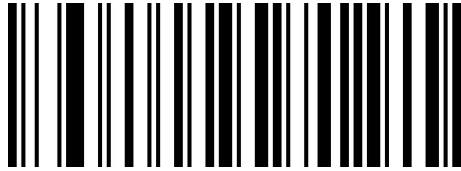
FESY1

Add CR*
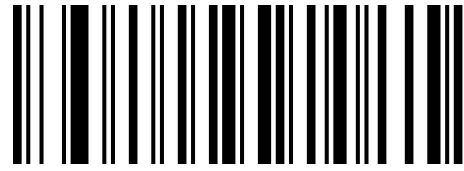
FESY3

Add LF
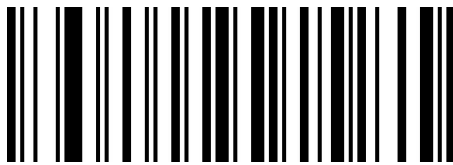
FESY4

Add CR&LF
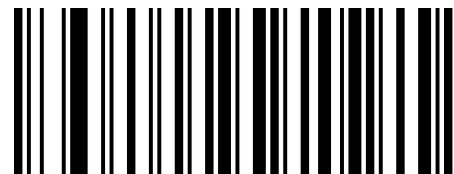
FESY2

Add Tab
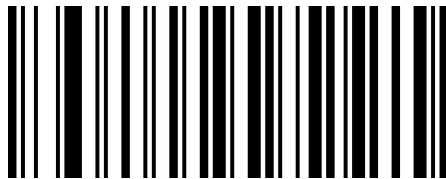
FESY0

No Ending character

Character conversion

By setting the character conversion function of the barcode device, the English letters of the barcode output data can be converted to upper and lower case.

For example: when the bar code content is aBC123, set the bar coder to "all lowercase", and the data obtained by the host will be "abc123". The default is Normal normal output.
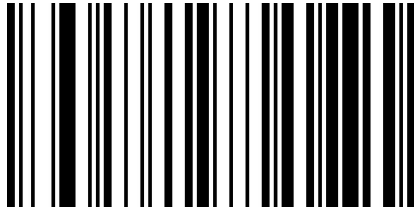
DASCN

Normal
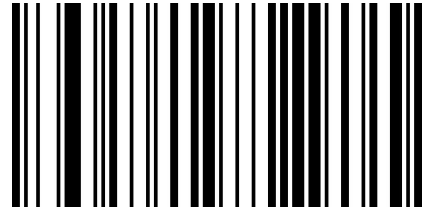
DASCU

Upper
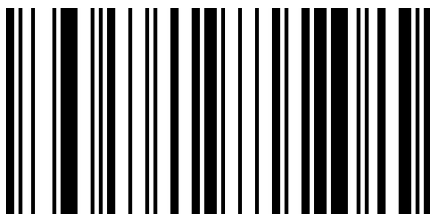
DASCL

Lower
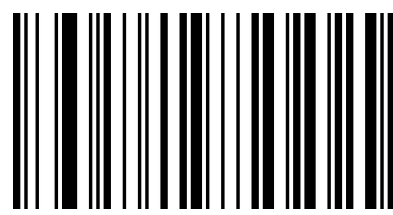
DASCX

Inverse

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

Barcode parameter setting

Each type of barcode has its own unique attributes, and the barcode reader can be adjusted to adapt to these attribute changes through the setting codes in this chapter. The fewer barcode types that "Allow Reading" is enabled, the faster the barcode reader can read. You can prohibit the barcode reader from reading unused barcode types to improve the working performance of the barcode reader.

UPC-A
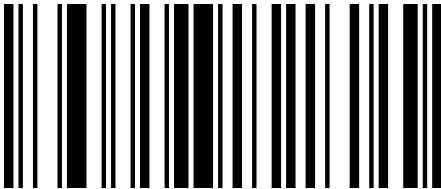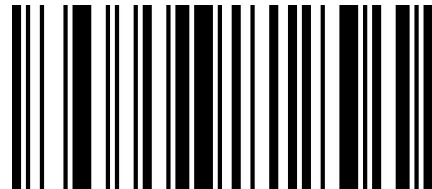
B0600	B0601
Enable UPC-A*	Disable UPC-A

Whether to transmit check digit

The UPC-A barcode data is fixed to 13 characters, and the 13th digit is the check digit, which is used to verify the correctness of all 13 characters. The default is to transmit the check digit.

B0620	B0621
transmit the check digit	**Not transmit the check digit**
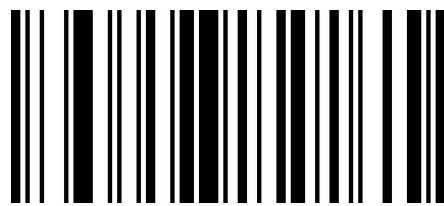
Whether to read additional bits

Additional digits refer to the 2-digit or 5-digit barcode added after the normal barcode, as shown in the figure below. The blue frame on the left is the normal barcode, and the red frame on the right is the additional digit. The default is to turn off the extra bit.
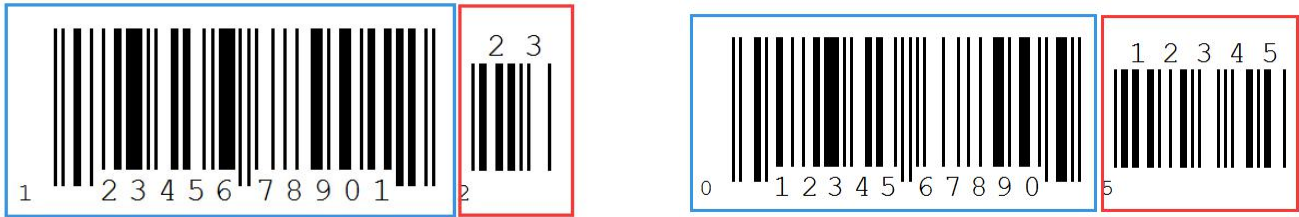
System character

The country code of the UPC-A barcode is the prefix character, which is generally not displayed in the character for human identification under the barcode, and "0" represents USA. The first character in the character for people to identify is the system character. By default, the country character and the system character are not transmitted.

B0640	B0641
Transmit character*	Not transmit character
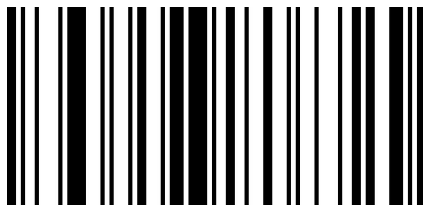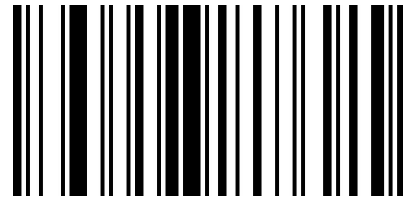
Extended setting

The UPC-A bar code type supports extended settings. After the extension is enabled, the bar code information is expanded to 13 digits, prefixed with "0", and the type is converted to EAN-13, and the default is no expansion.
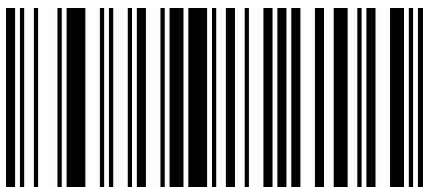
B0630	B0631
The barcode information is extended, and the type is converted toEAN-13	The barcode information is not extended*

UPC-E

|||||||||||||||||
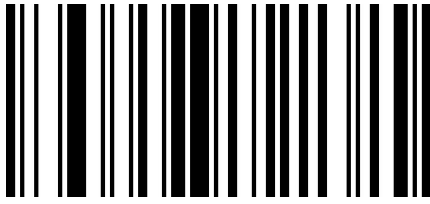
B0700

Eable UPC-E*

|||||||||||||||||
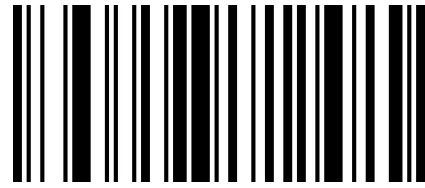
B0701

Disable UPC-E

Whether to transmit check digit

The UPC-E barcode data is fixed to 8character, and the 8th digit is the check digit, which is used to verify the correctness of all 8 characters. The default is to transmit the check digit.

|||||||||||||||||
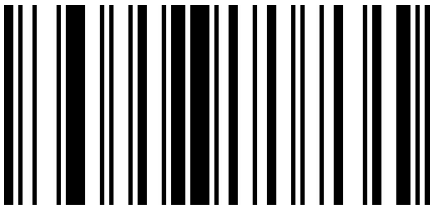
B0740

Transmit the check digit*

|||||||||||||||||
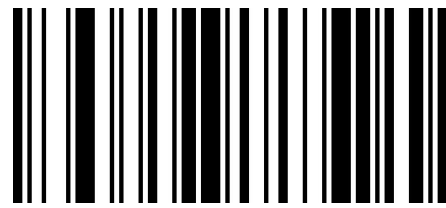
B0741

Not transmit the check digit

Whether to read additional bits

Additional digits refer to the 2-digit or 5-digit barcode added after the normal barcode, as shown in the figure below. The blue frame on the left is the normal barcode, and the red frame on the right is the additional digit. The default is to turn off the extra bit.

System **character**

The system code of UPC-E barcode is the prefix character, and the default transmission system character.
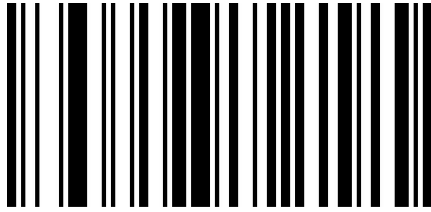
B0730

Transmit system character*
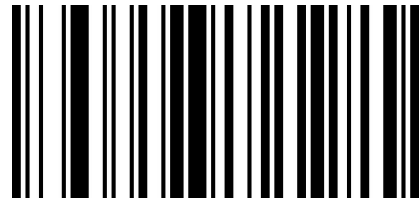
$B0731
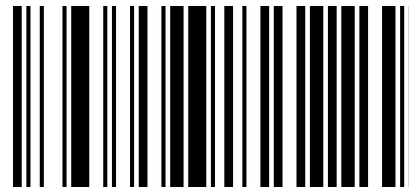
Not transmit character

Extended settings

The UPC-E barcode type supports extended settings. After the extension is turned on, the barcode information is expanded to 13 digits, and the type is converted to UPC-A. The default is no expansion.
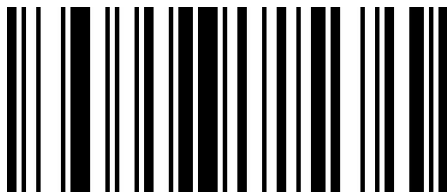
B0720

The barcode information is expanded, and the type is converted to UPC-A
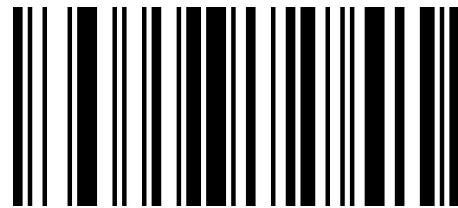
B0721

Barcode information is not expanded*

EAN-8
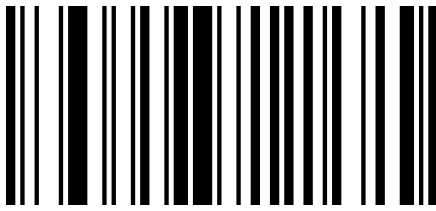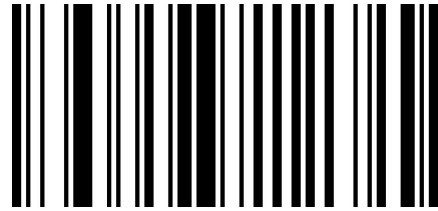
|	
B0500	B0501
Enable EAN-8	Disable EAN-8

Whether to transmit check digit

The EAN-8 barcode data is fixed to 8 characters, and the 8th digit is the check digit, which is used to verify the correctness of all 8 characters. The default is to transmit the check digit.

|	
B0520	B0521
Transmit the check digit*	**Not transmit the check digit**
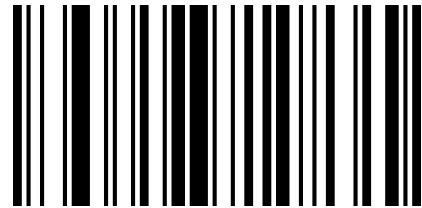
Whether to read additional bits

Additional digits refer to the 2-digit or 5-digit barcode added after the normal barcode, as shown in the figure below. The blue frame on the left is the normal barcode, and the red frame on the right is the additional digit. The default is to turn off the extra bit.

System character

The system code of EAN-8 barcode is the prefix character, and the system character is transmitted by default.
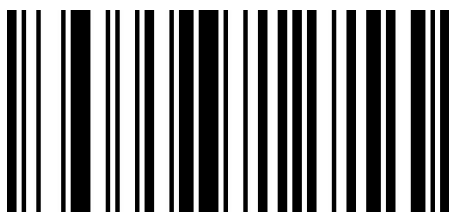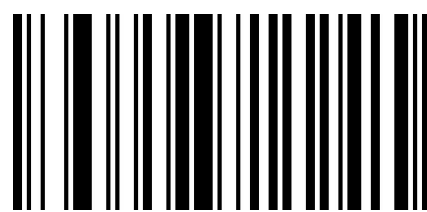
B0530	B0531
Transmit system character*	Not transmit system character

EAN-13
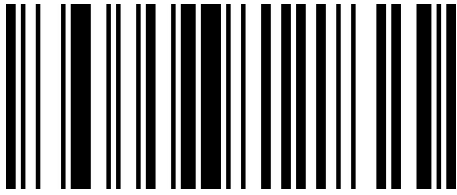
B0400

Enable EAN-13*
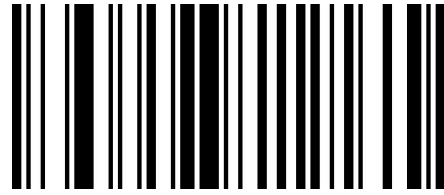
B0401

Disable EAN-13

Whether to transmit check digit

The EAN-13 barcode data is fixed to 13 characters, and the 13th digit is the check digit, which is used to verify the correctness of all 13 characters. The default is to transmit the check digit.
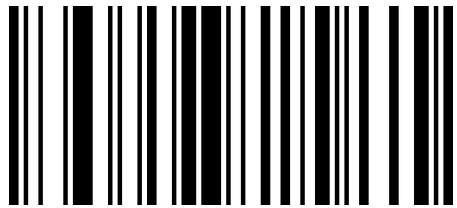
B0420

Transmit the check digit*
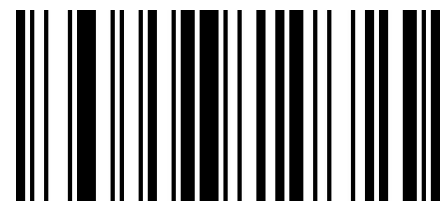
B0421

Not transmit the check digit

Whether to read additional bits

Additional digits refer to the 2-digit or 5-digit barcode added after the normal barcode, as shown in the figure below. The blue frame on the left is the normal barcode, and the red frame on the right is the additional digit. The default is to turn off the extra bit.

Extended settings

The EAN-13 barcode type supports extended settings, and the EAN-13 barcode can be extended to ISBN or ISSN barcodes through settings. The default is not to expand.
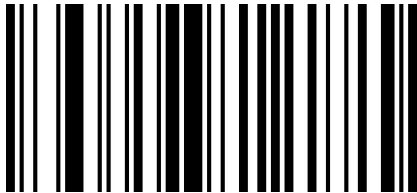
B0430

The barcode information expands to ISBN
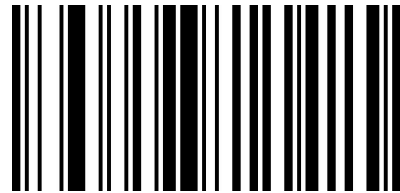
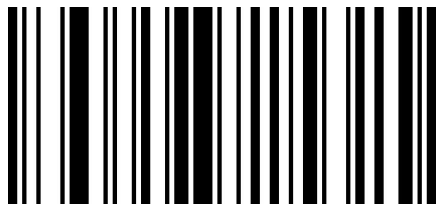B0431

Barcode information does not expand to ISBN*
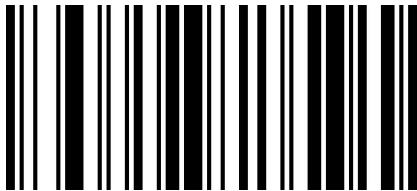
B0440

The barcode information expands to ISSN
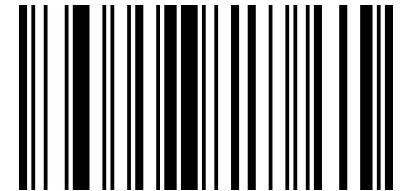
B0441

Barcode information does not expand to ISSN*

Code 128
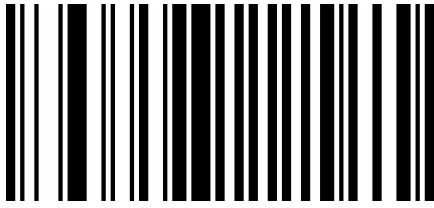
B0100

Enable Code 128*
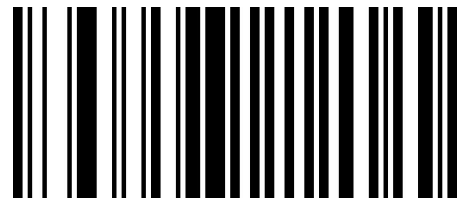
B0101

Disable Code 128

Code 39
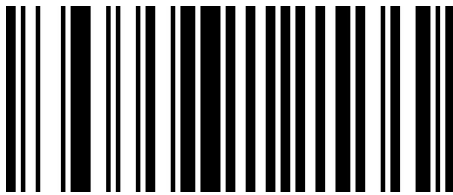
B0200

Enable Code 39*
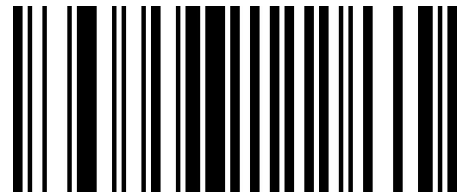
B0201

Disable Code 39

Start character/stop character setting

There is a character "*" before and after the Code 39 barcode data as the start and end characters. You can set whether to transmit the start and end characters together with the barcode data after the barcode is successfully read.

B0220

Transmission start character and end character
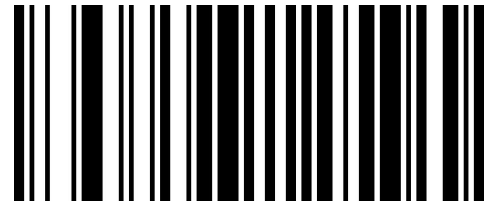
B0221

Not transmission start character and end character*

Full ASCII recognition range setting

Code 39 code data can include all ASCII characters, but the barcode reader can only read part of ASCII characters by default. By setting, you can turn on the function of reading complete ASCII characters and recognize all ASCII characters by default.
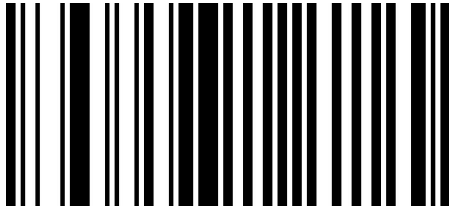
B0230

Recognize all ASCII character*
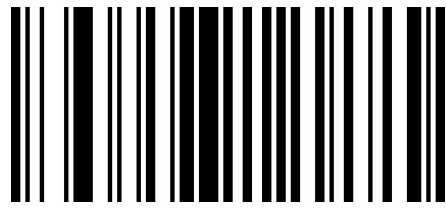
B0231

Not recognize all ASCII character

Code 93

B0300

Enable Code 93*

B0301

Disable Code 93

Check digit setting

The check digit is not mandatory in Code 93 barcode data. If there is a check digit, it is the last 2 characters of the data. The check digit is a value calculated based on all data to verify whether the data is correct.
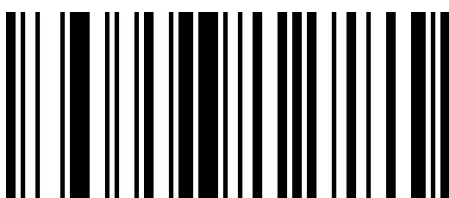
B0330

Transmit check digit
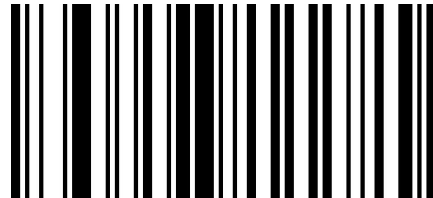
B0331

Not transmit check digit*

Code 11
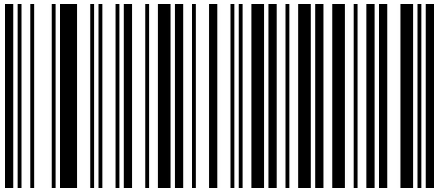
B0F00

Enable Code 11*
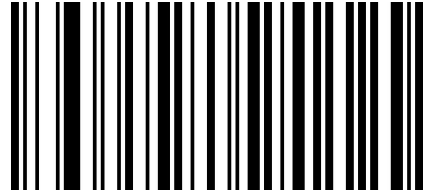
B0F01

Disable Code 11

Check settings

The check digit is not mandatory in Code 11 barcode data. If there is a check digit, it can be the last 1 or 2 characters of the data. The check digit is a value calculated based on all data to verify whether the data is correct.
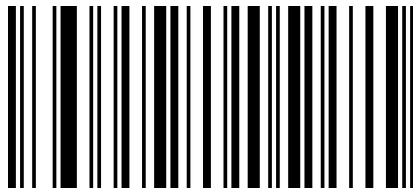
B0F20

C check*
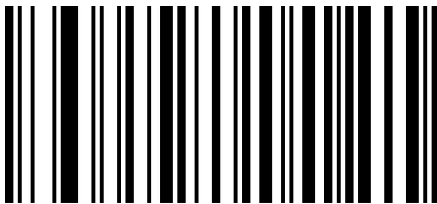
B0F21

CK check
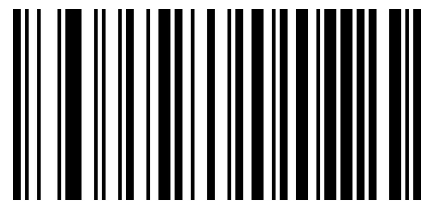
B0F22

Automatic CK check

Check digit transmission setting
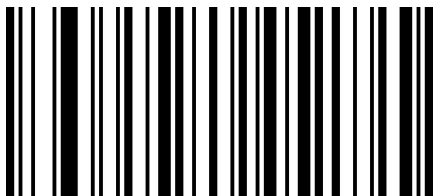
B0F30

Send check digit
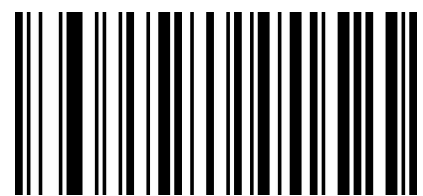
B0F31

Not send check digit

Interleaved 2 of 5
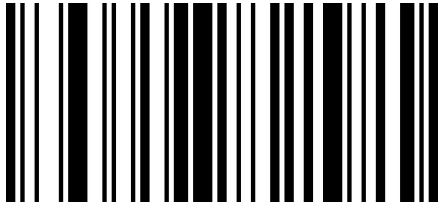
||| ||| ||| |||| || | ||| | || |||
B0900

Enable Interleaved 2 of 5*
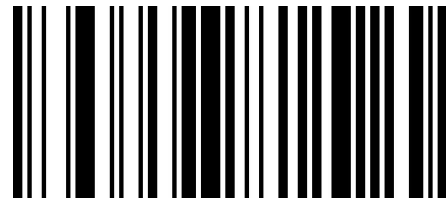
||| || | ||| || ||| || | ||| ||||
B0901

Disable Interleaved 2 of 5

Matrix 2 of 5
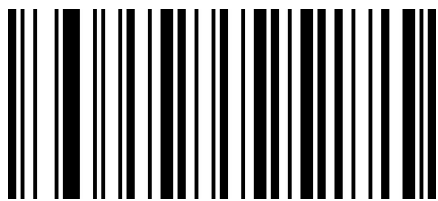
||| ||| || ||| | || ||| || | |||
B0B00

Enable Matrix 2 of 5*
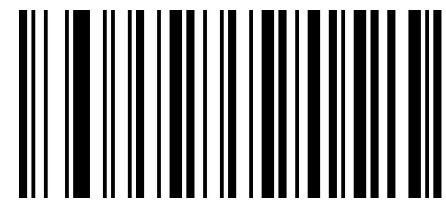
||| || ||| | || ||| | || ||| |||
B0B01

Disable Matrix 2 of 5

Industrial 2 of 5
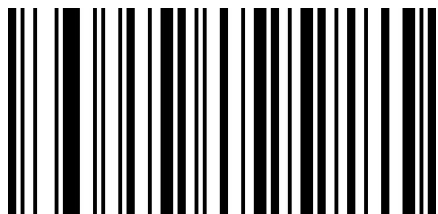
||| || ||| |||| || | ||| || | |||
B0A00

Enable Industrial 2 of 5*
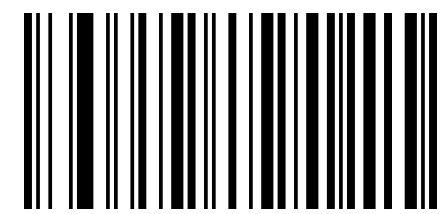
||| | || ||| || ||| | || ||| |||
B0A01

Disable Industrial 2 of 5

Standard 2 of 5(IATA)

B0G00

Enable Standard 2 of 5*
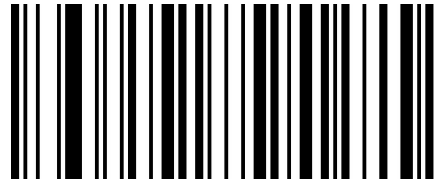
B0G01

Disable Standard 2 of 5

Standard 2 of 5 check digit setting
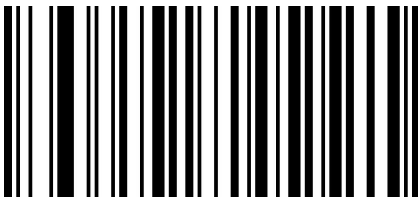
B0G30

Send transmit check digit
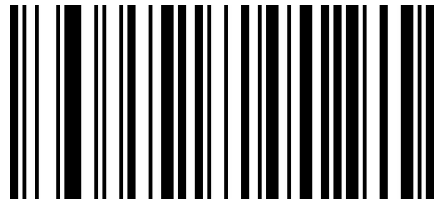
B0G31

Not send transmit check digit

Codabar（NW-7）
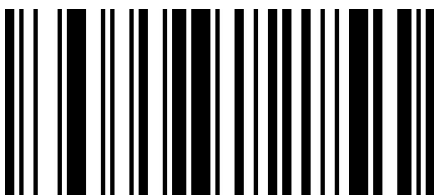
B0800

Enable Codabar*

B0801

Disable Codabar

Start character/end character setting
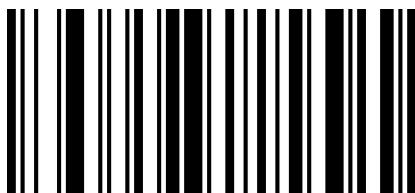
B0820

Transmit start&end character
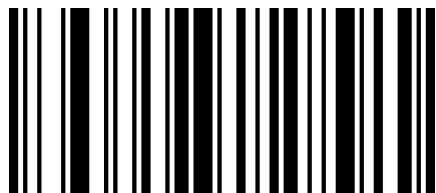
B0821

Not transmit start&end character*

MSI Plessey

|||||||||||||||||||||||||
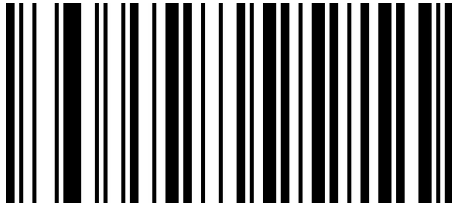
B0C00

Enable MSI Plessey

|||||||||||||||||||||||||
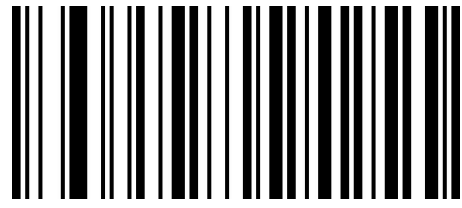
B0C01

Disable MSI Plessey*

Additional bit setting

Users can scan the following barcodes to set the additional digits of UPC/EAN/JAN codes.

|||||||||||||||||||||||||
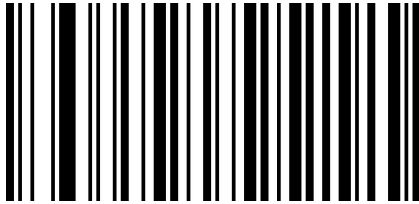
B0E00

Turn on 2 additional bits

|||||||||||||||||||||||||
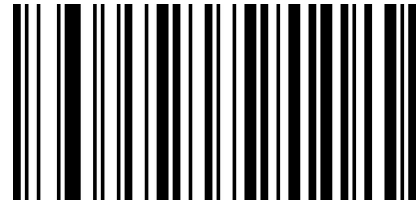
B0E01

Turn on 5 additional bits

|||||||||||||||||||||||||
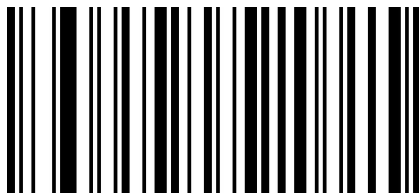
B0E02

Turn on 2&5 additional bits

|||||||||||||||||||||||||
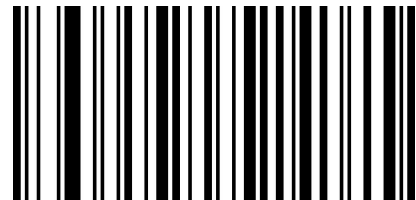
B0E03

Turn off extra bits*

|||||||||||||||||||||||||
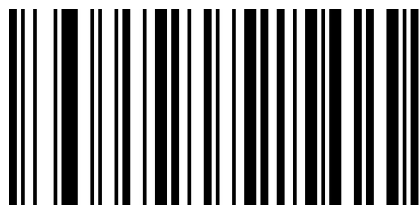
B0E04

Mandatory increase of additional bits

|||||||||||||||||||||||||
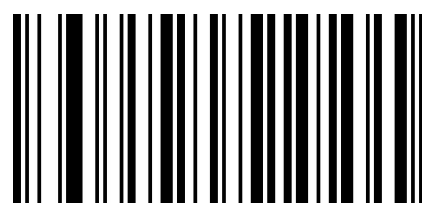
B0E05

Not mandatory increase of additional bits

Appendix

Appendix: Default setting table

parameter name	default setting	remark instruction
Comprehensive settings		
Configuration code function	ON	Default is turn on
Send configuration code	OFF	Default is turn off
Reading Mode	Manual reading mode	
Decode sound	ON	
Sound frequency	Medium frequency-Loud	
Sound frequency	2.0KHZ	
USB fast transmission	OFF	
USB transmission speed	Moderate transmission speed	
Image recognition method	Forward image recognition	
Communication settings		
Interface mode	USB-KBW	
Keyboard mode	American English	
Baud rate	9600	
Serial port check	No check	
Data bit	8	
Stop bit	1	
Data editing		
Transmit Code ID	OFF	
Transmit custom prefix	OFF	
Transmit custom suffix	OFF	
Transmit end suffix	ON	Allow, CR
Character conversion	OFF	Normal

parameter name	default setting	remark instruction
Barcode parameter setting		
UPC-A		
Enable reading	ON	
Transmit check digit	ON	
Read 2 additional bits	OFF	
Read 5 additional bits	OFF	
Additional digits required, 2 digits allowed	OFF	
Additional digits required, 5 digits allowed	OFF	
Transmit system character	ON	
Barcode information is expanded to EAN-13	OFF	
UPC-E		
Enable reading	ON	
Transmit check digit	ON	
Read 2 additional bits	OFF	
Read 5 additional bits	OFF	
Additional digits required, 2 digits allowed	OFF	
Additional digits required, 5 digits allowed	OFF	
Transmit system character	ON	
Expand to UPC-A	OFF	
When expanding, the type is converted to UPC-A	OFF	
EAN-8		
Enable reading	ON	
Transmit check digit	ON	
Read 2 additional bits	OFF	
Read 5 additional bits	OFF	
Additional digits required, 2 digits allowed	OFF	
Additional digits required, 5 digits allowed	OFF	
Transmit system character	ON	
EAN-13		
Enable reading	ON	
Transmit check digit	ON	
Read 2 additional bits	OFF	
Read 5 additional bits	OFF	
Additional digits required, 2 digits allowed	OFF	
Additional digits required, 5 digits allowed	OFF	
Expand to ISBN	OFF	

parameter name	default setting	remark instruction
Expand to ISSN	OFF	
Code 128		
Enable reading	ON	
Transmit check digit	OFF	
Code 39		
Enable reading	ON	
Transmit start character and end character	OFF	
Full ASCII recognize	ON	
Code 93		
Enable reading	ON	
Transmit check digit	OFF	
Code 11		
Enable reading	ON	
Check	ON	
Transmit check digit	C check	
Interleaved 2 of 5		
Enable reading	ON	
Matrix 2 of 5		
Enable reading	ON	
Industrial 2 of 5		
Enable reading	ON	
Standard 2 of 5		
Enable reading	ON	
Codabar		
Enable reading	ON	
Transmit start character and end character	OFF	
Enable reading	OFF	
MSI Plessey		
Enable reading	OFF	
Enable reading	OFF	
Enable reading	OFF	
China Post		
Enable reading	OFF	
Additional bit setting		
Enable additional bit	OFF	
Mandatory to include additional bits	OFF	

Appendix -Code ID

Number	Barcode Types	Code ID	Barcode Types Code(for prefix/suffix)
1	All Barcodes		
2	CODE 128	A	
3	EAN 8	G	
4	EAN 13	D	
5	UPC-A	H	
6	UPC-E	I	
7	CODE 93	C	
8	GS1 Omnidirectional		
9	GS1 Limited		
10	CODE 39	B	
11	Interleaved 2 of 5	K	
12	Industrial 2 of 5	M	
13	Standard 2 of 5	Q	
14	Matrix 2 of 5	L	
15	China Post	O	
16	MSI	N	
17	Plessey		
18	Code 11	P	
19	Codabar	J	

Appendix: Character Table （using for adding prefix/suffix）

C01 SOH （01）	C02 STX （02）	C03 ETX （03）
C04 EOT （04）	C05 ENQ （05）	C06 ACK （06）
C07 BEL （07）	C08 Backspace （08）	C09 HT （09）
C0A LF （0A）	C0B VT （0B）	C0C FF （0C）
C0D CR （0D）	C0E SO （0E）	C0F SI （0F）
C10 DEL （10）	C11 DC1 （11）	C12 DC2 （12）
C13 DC3 （13）	C14 DC4 （14）	C15 NAK （15）
C16 SYN （16）	C17 ETB （17）	C18 CAN （18）

C19	C1A	C1B
EM (19)	SUB (1A)	ESC (1B)
C1C	C1D	C1E
FS (1C)	GS (1D)	RS (1E)
C1F	C20	C21
US (1F)	Space (20)	! (21)
$C22	C23	C24
" (22)	# (23)	$ (24)
C25	C26	C27
% (25)	& (26)	' (27)
C28	C29	C2A
((28)	) (29)	* (2A)
C2B	C2C	C2D
+ (2B)	, (2C)	- (2D)
C2E	C2F	C30
. (2E)	/ (2F)	0 (30)

C31	C32	C33
1 (31)	2 (32)	3 (33)
C34	C35	C36
4 (34)	5 (35)	6 (36)
C37	C38	C39
7 (37)	8 (38)	9 (39)
C3A	C3B	C3C
: (3A)	; (3B)	< (3C)
C3D	C3E	C3F
= (3D)	> (3E)	? (3F)
C40	C41	C42
@ (40)	A (41)	B (42)
C43	C44	C45
C (43)	D (44)	E (45)
C46	C47	C48
F (46)	G (47)	H (48)

C49 I (49)	C4A J (4A)	C4B K (4B)
C4C L (4C)	C4D M (4D)	C4E N (4E)
C4F O (4F)	C50 P (50)	C51 Q (51)
C52 R (52)	C53 S (53)	C54 T (54)
C55 U (55)	C56 V (56)	C57 W (57)
C58 X (58)	C59 Y (59)	C5A Z (5A)
C5B [(5B)	C5C \ (5C)	C5D] (5D)
C5E ^ (5E)	C5F _ (5F)	C60 ` (60)

C61	C62	C63
a (61)	b (62)	c (63)
C64	C65	C66
d (64)	e (65)	f (66)
C67	C68	C69
g (67)	h (68)	i (69)
C6A	C6B	C6C
j (6A)	k (6B)	l (6C)
C6D	C6E	C6F
m (6D)	n (6E)	o (6F)
C70	C71	C72
p (70)	q (71)	r (72)
C73	C74	C75
s (73)	t (74)	u (75)
C76	C77	C78
v (76)	w (77)	x (78)
C79	C7A	C7B

y （79）

C7C

z （7A）

C7D

{ （7B）

C7E

| （7C）

C7F

} （7D）

C80

~ （7E）

C81

Delete （7F）

C82

F1

C83

F2

C84

F3

C85

F4

C86

F5

C87

F6

C88

F7

C89

F8

C8A

F9

C8B

F10

C8C

F11

C8D

F12

C8E

Insert

C90

Home

C91

Page UP

C92

End

C93

PageDown

C94

Right arrow   ←   Left arrow   →   Down arrow   ↓

C95

Up arrow   ↑

CBE   CBF

§   ç

Appendix: ASCII code table

Hexadecimal	ASCII value	character
00	00	NUL (Null char.)
01	01	SOH (Start of Header)
02	02	STX (Start of Text)
03	03	ETX (End of Text)
04	04	EOT (End of Transmission)
05	05	ENQ (Enquiry)
06	06	ACK (Acknowledgment)
07	07	BEL (Bell)
08	08	BS (Backspace)
09	09	HT (Horizontal Tab)
0A	10	LF (Line Feed)
0B	11	VT (Vertical Tab)
0C	12	FF (Form Feed)
0D	13	CR (Carriage Return)
0E	14	SO (Shift Out)
0F	15	SI (Shift In)
10	16	DLE (Data Link Escape)
11	17	DC1 (XON) (Device Control 1)
12	18	DC2 (Device Control 2)
13	19	DC3 (XOFF) (Device Control 3)
14	20	DC4 (Device Control 4)
15	21	NAK (Negative Acknowledgment)
16	22	SYN (Synchronous Idle)
17	23	ETB (End of Trans. Block)
18	24	CAN (Cancel)
19	25	EM (End of Medium)

1A	26	SUB (Substitute)
1B	27	ESC (Escape)
1C	28	FS (File Separator)
1D	29	GS (Group Separator)
1E	30	RS (Request to Send)
1F	31	US (Unit Separator)
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)

Hexadecimal	ASCII value	character
24	36	$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41	) (Right / Closing Parenthesis)
2A	42	* (Asterisk)
2B	43	+ (Plus)
2C	44	, (Comma)
2D	45	- (Minus / Dash)
2E	46	. (Dot)
2F	47	/ (Forward Slash)
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	: (Colon)
3B	59	; (Semi-colon)
3C	60	< (Less Than)
3D	61	= (Equal Sign)
3E	62	> (Greater Than)
3F	63	? (Question Mark)
40	64	@ (AT Symbol)
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

Hexadecimal	ASCII value	character
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	[(Left / Opening Bracket)
5C	92	\ (Back Slash)
5D	93	] (Right / Closing Bracket)
5E	94	^ (Caret / Circumflex)
5F	95	_ (Underscore)
60	96	' (Grave Accent)
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

Hexadecimal	ASCII value	character
74	116	t
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7A	122	z
7B	123	{ (Left/ Opening Brace)
7C	124	| (Vertical Bar)
7D	125	} (Right/Closing Brace)
7E	126	~ (Tilde)
7F	127	DEL (Delete)
BE	190	§
BF	191	ç