BARCODE SCANNER
SAT AI402 ID OCR+

User Manual

WWW.SATPCS.COM

Declaration

Please read this manual carefully before using the product to ensure the safe and effective use of the product. Do not disassemble the product by yourself, otherwise the company will not be responsible for warranty or replacement of the product.

For upgrades and updates to the Product, the Company reserves the right to modify the documentation at any time without prior notice.

The user shall bear the risk of using the product, to the fullest extent permitted by applicable laws, the Company shall not be liable for any damage or risk, including but not limited to direct or indirect personal damage, loss of business profit, interruption of trade, loss of business information or any other economic loss, arising from the use or non-use of the product.

contents

1 Start

1.1 Manual description

This manual includes code Settings, function Settings (lighting, keyboard types, factory Settings, etc.) and interface Settings. If you need to change the function you need, scan the configuration according to the following configuration code, all tape (*) indicates the factory default.

1.2 Version information

To enable the host to quickly read the version information of the current device, you can read the Version information for confirmation.

Version information

1.3 Set code on and off

By turning on the setting code function, you can configure the parameters of the reading module by scanning the setting code.

Note: When modifying the configuration through the setting code, the entire list of flag bits will be saved to the memory. That is, the configurations configured through the serial port but not saved will also be saved.

Disable

*Enable

1.4 Set the code content output

To set whether the content of the code is output, scan the following setting codes to configure the parameters of the literacy module.

* Disable

Enable

1.5 User Default Settings

You can save the frequently used configurations as the default Settings. You can scan “Save current settings as default settings” to save the current configurations as the default Settings. After this operation, the new configurations will replace the original default Settings. By scanning "Restore user default settings", the reading module can be switched to the user default Settings.

Save current settings as default settings

Restore user default settings

2 Communication interface

2.1 USB HID-KBW

When the reading module is connected to the scanner using a USB cable, you can configure the reading module as a standard keyboard by scanning the USB KBW setting code.

USB HID-KBW

2.1.1 Keyboard layout

To ensure that hosts in each country can use the device, you can set it by reading the "keyboard" of the corresponding country.

*USA

Belgium

Brazil

Canada

Czech Republic

Denmark

Finland

France

Austria, German

Greece

Hungary

Israel

Italy

Latin America

Netherlands


Norway


Poland


Portugal


Romania


Russia


Slovakia


Spain


Sweden


Switzerland


Turkey F


Turkey Q


UK


Japan

2.1.2 Keyboard type

After enabling the virtual keyboard, the correct data can be output in any keyboard language mode. When using the virtual keyboard, you must ensure that the numeric keys on the small keyboard are enabled.


*Standard keyboard


Virtual keyboard

2.1.3 Letter case conversion

Letter conversion, when outputting barcodes with letter content, you can configure the output result to be all uppercase or all lowercase. For example, if the barcode content is: ab123dE, if you scan the "convert to uppercase" barcode, the output result is: AB123DE; If you scan the "convert to lowercase" barcode, the output result is: abc123de; the default case is not converted.

*Normal output

All uppercase

All lowercase

Reverse uppercase and lowercase

2.1.4 Character transmission time interval

We can improve compatibility and reduce the probability of data loss by setting the transmission time interval between keyboard characters. Time interval setting range: 0-65535ms, default value: 5ms.

a) Scan the "Character Transmission Time Interval" setting code

Character Transmission Time Interval

b) Scan the "Digital Setup Code". For example, if the duration is 10ms, scan 1, 0; if the duration is 100ms, scan 1, 0, 0.

c)Scan the "OK" setting code to end the setting

OK

2.1.5 Character transmission time interval quick setting

0ms

*5ms

10ms

20ms

30ms

50ms

2.1.6 Control character output mode

Control character (0x00-0x20) output mode selection in ASCII code

Output function keys: control characters are used as self-defined function keys, see Appendix E for specific functions.

Output CTRL key combination: CTRL key combination mode outputs control characters, see Appendix E for specific functions.

Output ALT + number keys: support full control character output in Chinese environment, see Appendix E for specific functions.

*Output function keys

Output CTRL key combination

Output ALT + number keys

2.2USB COM

When the reading module is connected to the host using a USB cable, the reading module can be configured as a virtual serial port output mode by scanning the USB COM setting code.

USB COM

2.3 Serial port (customized)

The serial communication interface is a common way to connect the reading module and the host device (such as PC, POS, etc.). When the reading module is connected with the host using a serial cable, the system defaults to the serial communication mode. When using the serial communication interface, the communication parameter configuration between the reading module and the host device must completely match to ensure smooth communication and correct content.

TTL 232 serial port

The serial communication interface of the reading module uses TTL level signal (TTL-232), which can adapt to most system architectures. If the system needs to use the RS-232 form of architecture, it is necessary to add a conversion circuit externally.

The default serial communication parameters of the reading module are shown in Table 2-1.

Serial communication parameter table 2-1

Parameter	Default
Baud rate	9600
Check digit	None
Data bits	8
Stop bit	1

2.3.1 Baud rate

When the module and the host can communicate via TTL/RS232, the same communication parameters must be set to communicate normally, including transmission rate, checksum, flow control, etc. The transmission rate is the baud rate, and the default baud rate is 9600.

600

1200

2400

4800

9600

14400

19200

38400

57600

*115200

2.3.2 Check Digit

*No check

Odd number

Even

2.3.3 Stop bit

*1 bit

2 bit

2.3.4 Data bits

5 bits

6 bits

7 bits

* 8 bits

2.4 HID POS

When the device is a HID device (if it is not a HID device, please read the HID device configuration code first), you can read the following configuration code to select the HID-POS device mode

HID-POS

3 Character set

3.1 Input character set

In order to allow the reading module to read barcodes in various encoding formats, it can be set by reading the "input character set".

*Automatic

GBK

UTF8

ASCII

Japanese

3.2 Output character set

In order for the host to print Chinese data according to the specified encoding format, it can be set by reading the "output character set".

*Original format

GBK

UTF8

4 Time setting

4．1 Single scanning duration

4.1.1 Single scanning duration setting

a) Scan the "Single scanning duration" setting code

Single scanning duration

b) Scan the "Digital Setup Code". For example, if the duration is 100ms, scan 1, 0, 0; If the duration is 1005ms, scan 1, 0, 0, 5

c) Scan the "OK" setting code to end the setting

OK

4.1.2 Quickly set the duration of a single scan code

0ms (unlimited time)

1000ms

2000ms

3000ms

*5000ms

10000ms

4.2 Same code reading

In order to avoid the same barcode being continuously read multiple times in continuous mode and automatic sensing mode, you can require the reading module to allow the same barcode to be read after a set delay time; the same code reading delay means that a barcode is read After that, the same barcode will be refused to be read within the set time period. It can be read and output only after the time is exceeded. Range: 0-65535ms, default: 0ms.

4.2.1 Same code reading interval setting

a) Scan the "Same code time interval" setting code

Same code time interval

b) Scan the "Digital Setup Code". For example, if the duration is 100ms, scan 1, 0, 0; If the duration is 1005ms, scan 1, 0, 0, 5

c) Scan the "OK" setting code to end the setting

OK

4.2.2 Quick setting of the same code reading interval

*0ms

100ms

300ms

500ms

1000ms

3000ms

4.3 Scan interval time

The interval between two consecutive readings. Regardless of the success or failure of the previous reading, the next reading will be automatically entered after the time is exceeded. This setting is mainly used in continuous mode.

Default: 500ms, Range: 0-65535ms

4.3.1 Scan interval time setting

a) Scan the "Scan interval time" setting code

Scan interval time

b) Scan the "Digital Setup Code". For example, if the duration is 100ms, scan 1, 0, 0; If the duration is 1005ms, scan 1, 0, 0, 5

c) Scan the "OK" setting code to end the setting

OK

4.3.2 Quick setting of scanning interval time

0ms

*500ms

1000ms

2000ms

5000ms

10000ms

5 Lighting

The lighting can provide auxiliary lighting for shooting and reading, and the light beam is irradiated on the reading target to improve the reading performance and the adaptability to weak ambient light. Users can set it to one of the following states according to the application environment:

Normal Lighting (default setting) ： The light is on when taking pictures and reading, and off at other times;

Lighting is always on：The lighting will continue to glow after the reading module is turned on;

No Lighting：The light does not come on under any circumstances.

*Normal Lighting

No Lighting

Lighting is always on

6 Prompt output

6.1 Prompt related

6.1.1 Buzzer Type

Read the following setting code to set the buzzer as passive or active buzzer.

*Passive

Active

6.1.2 Volume

Users can adjust the volume of the buzzer by reading the following setting codes according to the application environment and personal habits.

Mute

Low

Mid

*High

6.1.3 Boot tone

Disable

*Enable

6.1.4 Set code prompt tone

Disable

*Enable

6.1.5 Decoding beep

Disable

*Enable

6.1.6 Decoding Tone Frequency

The resonant frequency of the buzzer used by the user may be different from the default frequency. You can adjust the frequency of the decoding prompt by reading the following setting codes. The default is 2700Hz.

a) Scan the "Buzzer Frequency" setting code

Buzzer Frequency

b) Scan the "Digital Setup Code". For example, if the frequency is 1500Hz, scan 1, 5, 0, 0; if the frequency is 2700Hz, sweep 2, 7, 0, 0

c) Scan the "OK" setting code to end the setting

OK

6.1.7 Decoding Beep Quick Settings

1000Hz

1500Hz

2000Hz

2500Hz

*2700Hz

3000Hz

3500Hz

6.1.8 Decoding tone duration

Users can set the duration of the decoding prompt tone according to their needs, and the default is 50ms.

a) Scan the "Prompt sound duration" setting code

Prompt sound duration

b) Scan the "Digital Setup Code". For example, if the duration is 50ms, sweep 5, 0; if the duration is 200ms, scan 2, 0, 0

c) Scan the "OK" setting code to end the setting

OK

6.1.9 Quick setting of decoding prompt tone duration

30ms

*50ms

70ms

100ms

200ms

300ms

7 Data editing

7.1 Barcode ID

7.1.1 AIM ID

AIM ID defines identification codes for various standard barcodes (users cannot customize AIM ID). For specific definitions, see Appendix C: AIMID List. The scanning module can add this identification code before the barcode data after decoding, the format is: "]" + letter "C" + number "0", for example, the AIM ID of CODE128 is "]C0". Users can identify different barcode classes by AIM ID type.

*Disable

Enable

7.1.2 CODE ID

Users can identify different barcode types through CODE ID, and CODE ID uses one character for identification. For specific definitions, see Appendix B: CODE ID List

*Disable

Enable

7.2 Terminator

In order to allow the host to quickly distinguish the current decoding results, you can enable the function of adding terminators, and the reading module will add the corresponding terminators after decoding the data.

Disable

Enter Line feed

*Line feed

TAB

Enter Enter

7.3 Prefix

7.3.1 Prefix on and Off

The prefix is a character string that is modified by users before decoding information. You can scan Enable to add the prefix, and scan Disable to cancel the prefix.

* Disable

Enable

7.3.2 Prefix content setting

Prefix setting can be done in two ways.

Method 1:

Add the prefix setting code content format: >!010800XX. Among them, XX is the setting variable, XX is expressed in hexadecimal, two characters are one unit, if it is insufficient, it is filled with 0, and can be superimposed arbitrarily, and a maximum of 10 digits of data prefixes are supported.

For example: To set the prefix character A, check the character comparison table in Appendix E, the hexadecimal value is 41, and the content of the setting code is: >!01080041.

For example: you need to set the prefix character A B C, check the character comparison table in Appendix E, the hexadecimal system is 41 42 43, then the setting code content is: >!010800414243.

Method 2:

a) Scan the "Prefix setting" setting code

Prefix setting

b) Scan the "Digital setting code" in turn, every two as a group.

For example: you need to set the prefix character A, check the character comparison table in Appendix E, the hexadecimal system is 41, then scan 4 and 1 respectively.

For example: you need to set the prefix character ABC, check the character comparison table in Appendix E, the hexadecimal system is 414243, Then scan 4, 1, 4, 2, 4, 3 respectively

c) Scan the "OK" setting code to end the setting

OK

7.4 Suffix

7.4.1 Suffix on and Off

The suffix is a character string modified by the user after decoding the information. The suffix can be added by scanning the "Enable" setting code, and the cancellation of the suffix can be realized by scanning "Disable".

*Disable Enable

7.4.2 Suffix content setting

There are two methods for suffix setting.

Method 1:

Add the suffix setting code content format: >!010801XX. Among them, XX is the setting variable, XX is expressed in hexadecimal, two characters are one unit, and the deficiency is filled with 0, which can be superimposed arbitrarily, and a maximum of 10 suffixes are supported.

For example: It is necessary to set the suffix character A, check the character comparison table in Appendix E, the hexadecimal value is 41, and the content of the setting code is: >!01080141.

For example: you need to set the suffix character ABC, check the character comparison table in Appendix E, the hexadecimal system is 414243, then the setting code content is: >!010801414243.

Method 2:

a) Scan the "Suffix settings" setting code

Suffix settings

b) Scan the "Digital setting code" in turn, every two as a group.

For example: you need to set the prefix character A, check the character comparison table in Appendix E, the hexadecimal system is 41, then scan 4 and 1 respectively.

For example: you need to set the prefix character ABC, check the character comparison table in Appendix E, the hexadecimal system is 414243, Then scan 4, 1, 4, 2, 4, 3 respectively

c) Scan the "OK" setting code to end the setting

OK

7.5 Add prefix according to barcode type

7.5.1 Add prefix according to barcode type On and Off

The prefix is a string that is customized and modified by the user before decoding the information. You can add a prefix by scanning the "Enable" setting code, and you can cancel the prefix by scanning "Disable".

*Disable

Enable

7.5.2 Add prefix content settings according to barcode type

There are two methods for prefix content setting.

Method 1:

Add a prefix according to the barcode type and set the content format of the code: >!010806XXXX. Among them, XXXX is the setting variable, the first two XX represent the barcode type, the relevant hexadecimal value can be found according to Appendix F, and the latter XX is expressed in hexadecimal, two characters are a unit, if it is insufficient, fill it up with 0, it can be superimposed arbitrarily, and supports a maximum of 10 data prefixes.

For example: you need to set the prefix character A of the CODE128 barcode. According to the check in Appendix F, the hexadecimal value of CODE128 is 01. Check the character comparison table in Appendix E. The hexadecimal value of the character A is 41, and the setting code content is: >! 0108060141.

For example: you need to set the prefix characters of CODE128 barcode A B C, according to Appendix F, the hexadecimal value of CODE128 is 01, check the character comparison table in Appendix E, the characters A B C hexadecimal are 41 42 43 respectively, then the setting code content is :>!01080601414243.

Method 2:

a) Scan the "Prefix setting" setting code

Prefix setting

b) Set the barcode type, scan the "digital setting code" in sequence, every two as a group.

For example: you need to set a prefix for CODE128, check the barcode type according to Appendix F, the hexadecimal value of the barcode type of CODE128 is 01, then scan 0 and 1 respectively

c) Set the content of the prefix, scan the "Digital setting code" in turn, every two as a group.

For example: you need to set the prefix character A, check the character comparison table in Appendix E, the character A is 41 in hexadecimal, then scan 4 and 1 respectively

d) Scan the "OK" setting code to end the setting

OK

7.5.3 Clear prefixes based on barcode type

Clear the prefixes that have been set.

Method 1:

According to the type of barcode, the content format of the prefix setting code is: >!010808XX. Among them, XX is the setting variable, and XX means that the barcode type uses hexadecimal, and two characters are a unit. Relevant hexadecimal values can be found according to Appendix F.

For example: it is necessary to clear the code prefix of CODE128. According to Appendix F, the hexadecimal value of CODE128 is 01, and the content of the setting code is: >!01080801.

Method 2:

a) Scan the "Clear Prefix" setup code

b) Clear the barcode type, scan the "Digital setting code" in sequence, every two as a group.

For example: the prefix of CODE128 needs to be cleared, according to the barcode type in Appendix F, the hexadecimal value of the barcode type of CODE128 is 01, then scan 0 and 1 respectively

c) Scan the "OK" setting code to end the setting

OK

7.6 Add suffix according to barcode type

7.6.1 Add suffix according to barcode type On and Off

The suffix is a character string modified by the user after decoding the information. The suffix can be added by scanning the "Enable" setting code, and the cancellation of the suffix can be realized by scanning "Disable".

*Disable

Enable

7.6.2 Add suffix content settings according to barcode type

There are two methods for suffix content setting.

Method 1:

Add a suffix according to the barcode type and set the content format of the code: >!010807XXXX. Among them, XXXX is the setting variable, the first two XX represent the barcode type, the relevant hexadecimal value can be found according to Appendix F, and the latter XX is expressed in hexadecimal , two characters are a unit, if it is insufficient,

fill it up with 0, it can be superimposed arbitrarily, and supports a maximum of 10 digits of data suffix.

For example: you need to set the suffix character A of the CODE128 barcode. According to the check in Appendix F, the hexadecimal value of CODE128 is 01. Check the character comparison table in Appendix E. The hexadecimal value of the character A is 41, and the setting code content is: >! 0108070141.

For example: you need to set the suffix characters A B C of CODE128 barcode. According to the check in Appendix F, the hexadecimal value of CODE128 is 01. Check the character comparison table in Appendix E. The characters A B C hexadecimal are 41 42 43 respectively, then the content of the code is set as :>!01080701414243.

Method 2:

a) Scan the "Suffix settings" setting code

Suffix settings

b) Set the barcode type, scan the "Digital setting code" in sequence, every two as a group.

For example: you need to set a suffix for CODE128, check the barcode type according to Appendix F, the hexadecimal value of the barcode type of CODE128 is 01, then scan 0 and 1 respectively

c) Set the content of the suffix, scan the "Digital setting code" in sequence, each two as a group.

For example: you need to set the suffix character A, check the character comparison table in Appendix E, the character A is 41 in hexadecimal, then scan 4 and 1 respectively

d) Scan the "OK" setting code to end the setting

OK

7.6.3 Clear suffixes based on barcode type

Clear the suffix that has been set.

Method 1:

Clear suffix setting code content format according to barcode type: >!010809XX. Among them, XX is the setting variable, XX means the barcode type uses hexadecimal, two characters are a unit, and fill with 0 if it is insufficient. Relevant hexadecimal values can be found according to Appendix F.

For example: need to clear the bar code suffix of CODE128, according to Appendix F, the hexadecimal value of CODE128 is 01, then the content of the set code is: >!01080901.

Method 2:

a) Scan the "Clear suffix" setting code

Clear suffix

b) Clear the barcode type, scan the "Digital setting code" in sequence, every two as a group.

For example: the suffix of CODE128 needs to be cleared, according to the barcode type in Appendix F, the hexadecimal value of the barcode type of CODE128 is 01, then scan 0 and 1 respectively

c) Scan the "OK" setting code to end the setting

OK

7.7 Hide fixed characters

This function can hide character strings that users do not need to output according to requirements.

7.7.1 Hide fixed characters On and Off

*Disable

Enable

7.7.2 Hide fixed character settings

There are two methods for hide fixed character settings.

Method 1:

Hidden fixed character setting code content format: >!010802XX. Among them, XX is a setting variable, XX is expressed in hexadecimal, two characters are a unit, and any shortage is filled with 0, which can be superimposed arbitrarily, and a maximum of 20 characters is supported.

For example: To set the hidden character A, check the character comparison table in Appendix E, the hexadecimal value is 41, and the content of the setting code is: >!01080241.

For example: you need to set the hidden character ABC, check the character comparison table in Appendix E, the hexadecimal value is 414243, then the setting code content is: >!010802414243.

Method 2:

a) Scan the "Hide fixed characters" setting code

Hide fixed characters

b) Scan the "Digital setting code" in sequence, every two as a group.

For example: if you need to hide the character A, check the character comparison table in Appendix E, if the hexadecimal value is 41, then scan 4 and 1 respectively.

For example: to hide the newline, check the character comparison table in Appendix E, if the hexadecimal value is 0A, then scan 0 and A respectively.

c) Scan the "OK" setting code to end the setting

OK

7.8 Keep barcode data according to length

This function can save the data required by the user in the barcode according to the requirement.

7.8.1 Keep data On and Off

*Disable

Forward index

Reverse index

【Note】Forward index (starting position from the front end of the data); Reverse index (starting position from the back end of the data)

7.8.2 Keep the starting position of the data

There are two methods for start settings.

Method 1:

Start position setting code content format: >! 00102AXX. XX is a setting variable. The value ranges from 1 to 65535 in decimal.

For example, if the start position is set to 11, the setting code is >! 00102A11.

Method 2:

a) Scan the "Start position" setting code.

Start position

b) Scan the "Digital setting code", and scan the corresponding digital setting code starting from the first digit. For example, for the 11th place, scan 1,1; for the 100th place, scan 1,0,0.

c) Scan the "OK" setting code to end the setting

OK

7.8.3 Reserve data end position

There are two methods for end settings.

Method 1:

The content format of the end position setting code: >!00102BXX. Among them, XX is the setting variable, and the decimal range is 1-65535.

For example: if the end position is set to 50, then the setting code content is: >!00102B50.

Method 2:

a) Scan the "End position" setting code

End position

b) Scan the "Digital setting code", from which digit, scan the corresponding digital setting code. For example, for the 50th place, scan 5,0.

c) Scan the "OK" setting code to end the setting

OK

7.9 Hide barcode data based on length

This function can hide the unnecessary data in the barcode according to the requirement.

7.9.1 Hide barcode data On and Off

*Disable Forward index Reverse index

【Note】Forward index (From the front of the data as the starting position) ； Reverse index (From the data backend as the starting position)

7.9.2 Hide the starting position of barcode data

There are two methods for start settings.

Method 1:

The content format of the starting position setting code: >!001027XX. Among them, XX is the setting variable, and the decimal range is 1-65535.

For example: if the starting position is set to 11, then the content of the setting code is: >!00102711.

Method 2:

a) Scan the "Start position" setting code

Start position

b) Scan the "Digital setting code", and scan the corresponding digital setting code starting from the first digit. For example, for the 11th place, scan 1,1; for the 100th place, scan 1,0,0.

c) Scan the "OK" setting code to end the setting

OK

7.9.3 Hide the end position of barcode data

There are two methods for end settings.

Method 1:

The content format of the end position setting code: >!001028XX. Among them, XX is the setting variable, and the decimal range is 1-65535.

For example: if the end position is set to 50, then the content of the setting code is: >!00102850.

Method 2:

a) Scan the "End position" setting code

End position

b) Scan the "Digital setting code", from which digit, scan the corresponding digital setting code. For example, for the 11th place, scan 1,1; for the 100th place, scan 1,0,0.

c) Scan the "OK" setting code to end the setting

OK

7.10 Hide barcode data of arbitrary length according to barcode type

This function can hide unnecessary data in the barcode according to the barcode type according to the requirement.

7.10.1 Hide barcode data based on barcode type On and Off

*Disable

Forward index

Reverse index

【Note】Forward index (From the front of the data as the starting position)； Reverse index (From the data backend as the starting position)

7.10.2 Hide the start position of data according to the barcode type

There are two methods for start settings.

Method 1:

The content format of the starting position of the hidden data according to the barcode type is: >!01080AXXXX. Among them, XXXX is the setting variable, the first two XX indicate the barcode type, and the relevant hexadecimal value can be found according to Appendix F, and the latter XX uses hexadecimal Indicates that two characters are one unit, and the lack of it is filled with 0, and the length range is 0x0000-0xFFFF.

For example: it is necessary to hide the starting position of CODE128 and set it to 11. According to Appendix F, the hexadecimal value of CODE128 is 01, and the hexadecimal value of 11 is 0B, then the setting code content is: >!01080A010B.

Method 2:

a) Scan the "Barcode type and starting position" setting code

Barcode type and starting position

b) Set the barcode type, scan the "Digital setting code" in sequence, every two as a group.

For example: CODE128 needs to be hidden, according to the barcode type in Appendix F, the hexadecimal value of the barcode type of CODE128 is 01, then scan 0 and 1 respectively.

c) Set the starting position, scan the "Digital setting code" in sequence, every two as a group.

The use here refers to hexadecimal. For example, the 11th digit, hexadecimal 0B, sweep 0, B; the 100th digit, hexadecimal 64, scan 6, 4.

b) Scan the "OK" setting code to end the setting

OK

7.10.3 Hide data end position according to barcode type

There are two methods for end settings

Method 1:

The content format of the end position of the hidden data according to the barcode type is: >!01080BXXXX. Among them, XXXX is the setting variable, the first two XX indicate the barcode type, and the relevant hexadecimal value can be found according to Appendix F, and the latter XX uses hexadecimal Indicates that two characters are a unit, and fill in the gap with 0, and the length range is 0x0000-0xFFFF.

For example: It is necessary to hide the end position of CODE128 and set it to 100. According to Appendix F, the hexadecimal value of CODE128 is 01, and the hexadecimal value of 100 is 64. The content of the setting code is: >!01080B0164.

Method 2:

a) Scan the "Barcode type and end position" setting code

Barcode type and end position

b) Set the barcode type, scan the "Digital setting code" in sequence, every two as a group.

For example: CODE128 needs to be hidden, according to the barcode type in Appendix F, the hexadecimal value of the barcode type of CODE128 is 01, then scan 0 and 1 respectively.

c) To set the end position, scan the "Digital setting code" in sequence, every two as a group.

The use here refers to hexadecimal. For example, the 11th digit, hexadecimal 0B, scan 0, B; the 100th digit, hexadecimal 64, scan 6,4

d) Scan the "OK" setting code to end the setting

OK

7.11 Insert custom characters

This function can insert user-defined data at any position in the barcode data according to requirements.

7.11.1 Insert custom data On and Off

*Disable

Enable

7.11.2 Custom data

Custom data can be used in two ways.

Method 1:

User-defined insert data setting code content format:>!010803XX. Among them, XX is the setting variable, XX is expressed in hexadecimal, two characters are one unit, if there is a shortage, fill it with 0, and it can be superimposed arbitrarily, and supports a maximum of 20 digits custom data.

For example: To insert custom data A, check the character comparison table in Appendix E, the hexadecimal value is 41, and the content of the setting code is: >!01080341.

For example: you need to insert custom data ABC, check the character comparison table in Appendix E, the hexadecimal system is 414243, then the setting code content is: >!010803414243.

Method 2:

a) Scan the "Custom Data" setup code

Custom Data

b) Scan the "Digital setting code" in sequence, every two as a group.

For example: you need to insert custom data A, check the character comparison table in Appendix E, if the hexadecimal value is 41, then scan 4 and 1 respectively

For example: you need to insert custom data ABC, check the character comparison table in Appendix E, the hexadecimal system is 414243, then scan 4, 1, 4, 2, 4, 3 respectively.

c) Scan the "OK" setting code to end the setting

OK

7.11.3 Insertion position

There are two methods for insertion position settings.

Method 1:

The content format of the insertion position setting code: >!00102EXX. Among them, XX is the setting variable, and the decimal range is 1-65535.

For example: If the insertion position is set to 11, then the setting code content is: >!00102E11.

Method 2:

a) Scan the "Insert position" setting code

Insert position

b) Scan the "Digital setting code", insert the position, and scan the corresponding digital setting code.For example, for the 11th place, scan 1,1; for the 100th place, scan 1,0,0.

c) Scan the "OK" setting code to end the setting

OK

7.12 Character replacement

This function can replace the data in the original string with any data according to the requirement.

7.12.1 Character Replacement on and Off

*Disable

Enable

7.12.2 Replaced character settings

There are two methods for replaced character settings.

Method 1:

The content format of the replaced character setting code: >!010804XX. Among them, XX is the setting variable, and XX is expressed in hexadecimal notation. Two characters are one unit, and any shortage is filled with 0. It can be superimposed arbitrarily, and a maximum of 20 characters is supported.

For example: the character to be replaced is A, check the character comparison table in Appendix E, the hexadecimal value is 41, and the content of the setting code is: >!01080441.

For example: for the replaced character ABC, check the character comparison table in Appendix E, the hexadecimal value is 414243, and the content of the setting code is: >!010804414243.

Method 2:

a) Scan the "Replaced character" setting code

Replaced character

b) Scan the "Digital setting code" in sequence, every two as a group.

For example: the character to be replaced is A, check the character comparison table in Appendix E, if the hexadecimal value is 41, then scan 4 and 1 respectively.

For example: the replaced character is newline, check the character comparison table in Appendix E, if the hexadecimal value is 0A, then scan 0 and A respectively

c) Scan the "OK" setting code to end the setting

OK

7.12.3 Replace character setting

There are two methods for replace character settings.

Method 1:

The content format of the replacement character setting code: >!010805XX. Among them, XX is the setting variable, XX is expressed in hexadecimal, two characters are one unit, and any shortage is filled with 0, which can be superimposed arbitrarily, and a maximum of 20 characters is supported.

For example: character A replaces the original data, check the character comparison table in Appendix E, the hexadecimal value is 41, then the setting code content is: >!01080541.

For example: the character ABC replaces the original data, check the character comparison table in Appendix E, the hexadecimal value is 414243, then the setting code content is: >!010805414243.

Method 2:

a) Scan the "Replace character" setting code

Replace character

b) Scan the "Digital setting code" in sequence, every two as a group.

For example: to replace the original data with character A, check the character comparison table in Appendix E, if the hexadecimal value is 41, then scan 4 and 1 respectively

For example: replace the original data with newline characters, check the character comparison table in Appendix E, if the hexadecimal value is 0A, then scan 0 and A respectively

c) Scan the "OK" setting code to end the setting

OK

7.13 Line feed to Enter

Both linefeed (\n) and Enter Linefeed (\r\n) are converted to Enter (\r).

*Disable

Enable

8 URL code On and Off

To prevent accidental scanning of barcodes with website information when scanning product barcodes, or in some other special applications, this function can disable the identification of barcodes with website information according to requirements.

*Enable URL code

Disable URL code

9 GS1 rule enable

To enable GS1 rules, enclose the AI section in brackets.

*Disable

Enable

10 Barcode global operation

10.1 Global operation On and Off

*Disable

Enable

10.2 1D global operation On and Off

*Disable

Enable

10.3 2D global operation On and Off

*Disable

Enable

10.4 Barcode security level

In order to solve the problem of possible code errors in barcode reading in extreme cases, 5 security levels are provided here. The higher the level, the worse the reading experience will be.

Level 0

Level 1

Level 3

Level 4

Level 5

10.5 Multi-code recognition

In special application scenarios, it is necessary to read multiple barcodes at the same time. Read the following setting codes to set the enable/disable of multi-code reading.

10.5.1 Must read multi-code

*Disable

Enable

10.5.2 Read multiple codes

*1

2

3

4

5

6

10.6 Global inverse color On and Off

Read the following setting codes to set the barcode reverse color enable/disable reading.

【Note】Global inversion On and Off will have a greater impact on the performance of the reading device. Commonly used barcodes have a separate inversion switch, and it is recommended to turn it on separately.

*Disable

Enable

10.7 Local inverse color On and Off

10.7.1 CODE128 Inverted Color On and Off

Read the following setting codes to enable/disable reverse color reading of CODE128 barcodes. This setting is also valid for GS1-128.

*Disable

Enable

10.7.2 EAN/UPC reverse color On and Off

Read the following setting codes to enable/disable reverse color reading for EAN/UPC barcodes

*Disable

Enable

10.7.3 ITF25 reverse color On and Off

Read the following setting code to set the enable/disable reverse color reading of ITF25 barcode

*Disable

Enable

10.7.4 CODE39 reverse color On and Off

Read the following setting code to set the CODE39 barcode enable/disable reverse color reading.

*Disable

Enable

10.7.5 CODABAR reverse color On and Off

Read the following setting codes to set the CODABAR barcode enable/disable reverse color reading.

*Disable

Enable

10.7.6 CODE93 reverse color On and Off

Read the following setting code to set the enable/disable reverse color reading of CODE93 barcode.

*Disable

Enable

11 Series-Barcode Type Configuration

11.1 CODE128

11.1.1 CODE128 On and Off

Read the following setting codes to enable/disable reading of CODE128 barcodes.

Disable

*Enable

11.1.2 CODE128 minimum length

There are two methods for CODE128 minimum length setting.

Method 1:

CODE128 Minimum length setting code content format:>!000012XX. Among them, XX is the setting variable, and the decimal range is 0-255.Among them, XX is the setting variable, and the decimal range is 0-255.

For example: CODE128 The minimum length is set to 2，then the setting code content is:>!0000122.

For example: CODE128 The minimum length is set to 12，then the setting code content is:>!00001212.

Method 2:

a) Scan “CODE128 minimum length “setting code

CODE128 minimum length

b) Scan the "Digital setting code". For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1, 2.

c) Scan the "OK" setting code to end the setting.

OK

11.1.3 CODE128 The maximum length

There are two methods for CODE128 The maximum length setting .

Method 1:

CODE128 The content format of the maximum length setting code:>!000013XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:CODE128 The maximum length is set to 9， then the setting code content is:>!0000129.

For example:CODE128 The maximum length is set to 20， then the setting code content is:>!00001220.

Method 2:

a) Scan “CODE128 The maximum length “setting code

CODE128 The maximum length

b) Scan the "Digital setting code". For example, if the maximum length is 9 digits, scan 9; if the maximum length is 20 digits, scan 2, 0.

c) Scan the "OK" setting code to end the setting.

OK

11.1.4 CODE128 Security Level

The higher the barcode security level, the lower the bit error rate, and the reading effect will be affected to a certain extent.

*Low

Mid

High

11.2 EAN/UCC 128/GS1 128

11.2.1 GS1 128 On and Off

Read the following setting code to enable/disable reading of GS1 128 barcode.

Disable

*Enable

11.2.2 GS1 128 minimum length

There are two methods for GS1 128 minimum length setting.

Method 1:

GS1 128 Minimum length setting code content format:>!000022XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:GS1 128 The minimum length is set to 2，then the setting code content is:>!0000222.

For example:GS1 128 The minimum length is set to 12，then the setting code content is:>!00002212.

Method 2:

a) Scan“GS1 128 minimum length”setting code

GS1 128 minimum length

b) Scan the "Digital setting code". For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1, 2.

c) Scan the "OK" setting code to end the setting.

OK

11.2.3 GS1 128 The maximum length

There are two methods for GS1 128 The maximum length setting.

Method 1:

GS1 128 The content format of the maximum length setting code:>!000023XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:GS1 128 The maximum length is set to 9，then the setting code content is:>!0000239.

For example:GS1 128 The maximum length is set to 20，then the setting code content is:>!00002320.

Method 2:

a) Scan “GS1 128 The maximum length “setting code

GS1 128 The maximum length

b) Scan the "Digital setting code". For example, the maximum length is 9 digits, scan 9; the maximum length is 20 digits, scan 2,0.

c) Scan the "OK" setting code to end the setting.

OK

11.3EAN8

11.3.1 EAN8 On and Off

Read the following setting code to enable/disable reading of GS1 128 barcode.

Disable

*Enable

11.3.2 EAN8 check digit transmission

Read the following setting code to set whether EAN8 transmits the check digit.

Disable

*Enable

11.3.3 EAN8 reads 2-digit additional code

Reading the following setting code will set whether the EAN8 can read the 2-digit additional code.

Disable

*Enable

11.3.4 EAN8 reads 5-digit additional code

Reading the following setting code will set whether the EAN8 can read the 5-digit additional code.

*Disable

Enable

11.3.5 Read only with additional code EAN8

Read the following setting codes to set whether to only read EAN8 with additional codes.

Disable

*Enable

11.4 EAN13

11.4.1 EAN13 On and Off

Read the following setting code to set the enable/disable reading of EAN13 barcode.

Disable

*Enable

11.4.2 EAN13 check digit transmission

Read the following setting code to set whether EAN13 transmits the check digit.

Disable

*Enable

11.4.3 EAN13 read 2-digit add-on code

Reading the following setting code will set whether the EAN13 can read the 2-digit additional code.

*Disable

Enable

11.4.4 EAN13 read 5-digit add-on code

Reading the following setting code will set whether the EAN13 can read the 5-digit additional code.

*Disable

Enable

11.4.5 Read only with additional code EAN13

Read the following setting code to set whether to read only EAN13 with additional code.

*Disable

Enable

11.5 ISSN

Read the following setting codes to set the ISSN barcode Enable/Disable reading

【Note】ISSN is prohibited, ISSN will be treated as EAN13.

*Disable

Enable

11.6 ISBN

Read the following setting codes to set the ISBN barcode Enable/Disable reading

【Note】ISBN is prohibited, ISBN will be treated as EAN13.

*Disable

Enable

11.7 UPC-E

11.7.1 UPC-E On and Off

Read the following setting codes to enable/disable reading of UPC-E barcodes

Disable

*Enable

11.7.2 UPC-E check digit transmission

Read the following setting code to set whether UPC-E transmits the check digit.

Disable

*Enable

11.7.3 UPC-E read 2-digit add-on code

Read the following setting codes to set whether UPC-E with 2-digit additional codes can be read.

*Disable

Enable

11.7.4 UPC-E read 5-digit add-on code

Read the following setting code to set whether UPC-E with 5-digit additional code can be read.

*Disable

Enable

11.7.5 Read only with additional code UPC-E

Read the following setting code to set whether to read only UPC-E with additional code.

*Disable

Enable

11.7.6 Transmission system character "0"

Read the following setting code to set whether UPC-E transmits the system character "0".

Disable

*Enable

11.7.7 UPC-E to UPC-A

Read the following setting code to set whether to convert UPC-E to UPC-A.

*Disable

Enable

11.7.8 UPC-E1 On and Off

Read the following setting code to set whether to read UPC-E1 or not.

*Disable

Enable

11.7.9 Transmission of national character "0"

Read the following setting code to set whether UPC-E transmits the national character "0".

*Disable

Enable

11.8UPC-A

11.8.1 UPC-A On and Off

Read the following setting code to enable/disable reading of UPC-A barcode

Disable

*Enable

11.8.2 UPC-A check digit transmission

Read the following setting code to set whether UPC-A transmits the check digit.

Disable

*Enable

11.8.3 UPC-A read 2-digit add-on code

Read the following setting codes to set whether UPC-A with 2-digit additional codes can be read.

Disable

*Enable

11.8.4 UPC-A read 5-digit add-on code

Read the following setting codes to set whether UPC-A with 5-digit additional codes can be read.

Disable

*Enable

11.8.5 Read only with additional code UPC-A

Read the following setting code to set whether to read only UPC-A with additional code.

Disable

*Enable

11.8.6 Transmission system character "0"

Read the following setting code to set whether UPC-A transmits system characters.

Disable

*Enable

11.8.7 Transmission of national character "0"

Read the following setting code to set whether UPC-E transmits the national character "0". (Whether to convert UPC-A to EAN13 will be set)

*Disable

Enable

11.9 ITF25

11.9.1 ITF25 On and Off

Read the following setting codes to enable/disable reading of ITF25 barcodes.

Disable

*Enable

11.9.2 ITF25 check digit verification

Read the following setting code to set whether the ITF25 check digit is verified or not.

*Disable

Enable

11.9.3 ITF25 check digit transmission

Read the following setting code to set whether to transmit the ITF25 check digit.

【Note】To enable the transmission check digit, please enable the check digit verification function first

*Disable

Enable

11.9.4 ITF25 minimum length

There are two methods for ITF25 minimum length setting.

Method 1:

ITF25 Minimum length setting code content format:>!0000B3XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:ITF25 The minimum length is set to 2，then the setting code content is:>!0000B32.

For example:ITF25 The minimum length is set to 12，then the setting code content is:>!0000B312.

Method 2:

a) Scan “ITF25 minimum length”setting code

ITF25 minimum length

b) Scan the "Digital setting code".For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1, 2.

c) Scan the "OK" setting code to end the setting.

OK

11.9.5 ITF25 The maximum length

There are two methods for ITF25 The maximum length setting.

Method 1:

ITF25 The content format of the maximum length setting code:>!0000B4XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:ITF25 The maximum length is set to 9，then the setting code content is:>!0000B49.

For example:ITF25 The maximum length is set to 20，then the setting code content is:>!0000B420.

Method 2:

a) Scan “ITF25 The maximum length”setting code

ITF25 The maximum length

b) Scan the "Digital setting code". For example, the maximum length is 9 digits, scan 9; the maximum length is 20 digits, scan 2,0.

c) Scan the "OK" setting code to end the setting.

OK

11.9.6 Brazilian Government/Bank Code

*Disable

Enable

11.10 NEC25/COOP25

11.10.1 NEC25 On and Off

Read the following setting codes to enable/disable reading of NEC25 barcodes.

*Disable

Enable

11.10.2 NEC25 check digit verification

Read the following setting code to set whether the NEC25 check digit is verified.

*Disable

Enable

11.10.3 NEC25 check digit transmission

Read the following setting code to set whether to transmit the NEC25 check digit.

【Note】To enable the transmission check digit, please enable the check digit verification function first

*Disable

Enable

11.10.4 NEC25 minimum length

There are two methods for NEC25 minimum length setting.

Method 1:

NEC25 Minimum length setting code content format:>!000103XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:NEC25 The minimum length is set to 2，then the setting code content is:>!0001032.

For example:NEC25 The minimum length is set to 12，then the setting code content is:>!00010312.

Method 2:

a) Scan “NEC25 minimum length”setting code

NEC25 minimum length

b) Scan the "Digital setting code".For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1, 2.

c) Scan the "OK" setting code to end the setting.

OK

11.10.5 NEC25 The maximum length

There are two methods for NEC25 The maximum length setting .

Method 1:

NEC25 The content format of the maximum length setting code:>!000104XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:NEC25 The maximum length is set to 9，then the setting code content is:>!0001049.

For example:NEC25 The maximum length is set to 20，then the setting code content is:>!00010420.

Method 2:

a) Scan “NEC25 The maximum length”setting code

NEC25 The maximum length

b) Scan the "Digital setting code". For example, the maximum length is 9 digits, scan 9; the maximum length is 20 digits, scan 2,0.

c) Scan the "OK" setting code to end the setting.

OK

11.11 MATRIX25

11.11.1 MATRIX25 On and Off

Read the following setting codes to enable/disable reading of MATRIX25 barcodes.

*Disable

Enable

11.11.2 MATRIX25 check digit verification

Read the following setting code to set whether the check digit of MATRIX25 is verified.

*Disable

Enable

11.11.3 MATRIX25 check digit transmission

Read the following setting code to set whether to transmit the check digit of MATRIX25.

【Note】To enable the transmission check digit, please enable the check digit verification function first

*Disable

Enable

11.11.4 MATRIX25 minimum length

There are two methods for MATRIX25 minimum length setting .

Method 1:

MATRIX25 Minimum length setting code content format:>!000113XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:MATRIX25 The minimum length is set to 2， then the setting code content is:>!0001132.

For example:MATRIX25 The minimum length is set to 12， then the setting code content is:>!00011312.

Method 2:

a) Scan “MATRIX25 minimum length”setting code

MATRIX25 minimum length

b) Scan the "Digital setting code".For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1, 2.

c) Scan the "OK" setting code to end the setting.

OK

11.11.5 MATRIX25 The maximum length

There are two methods for MATRIX25 The maximum length setting .

Method 1:

MATRIX25 The content format of the maximum length setting code:>!000114XX. Among them, XX is the setting variable, and the decimal range is 0-255. For example:MATRIX25 The maximum length is set to 9，then the setting code content is:>!0001149.

For example:MATRIX25 The maximum length is set to 20，then the setting code content is:>!00011420.

Method 2:

a) Scan “MATRIX25 The maximum length”setting code

MATRIX25 The maximum length

b) Scan the "Digital setting code". For example, the maximum length is 9 digits, scan 9; the maximum length is 20 digits, scan 2,0.

c) Scan the "OK" setting code to end the setting.

OK

11.12 IND25

11.12.1 IND25 On and Off

Read the following setting codes to enable/disable reading of IND25 barcodes.

*Disable

Enable

11.12.2 IND25 minimum length

There are two methods for IND25 minimum length setting .

Method 1:

IND25 Minimum length setting code content format:>!000123XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:IND25 The minimum length is set to 2，then the setting code content is:>!0001232.

For example:IND25 The minimum length is set to 12，then the setting code content is:>!00012312.

Method 2:

a) Scan “IND25 minimum length”setting code

IND25 minimum length

b) Scan the "Digital setting code".For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1, 2.

c) Scan the "OK" setting code to end the setting.

OK

11.12.3 IND25 The maximum length

There are two methods for IND25 The maximum length setting .

Method 1:

IND25 The content format of the maximum length setting code:>!000124XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:IND25 The maximum length is set to 9，then the setting code content is:>!0001249.

For example:IND25 The maximum length is set to 20，then the setting code content is:>!00012420.

Method 2:

a) Scan “IND25 The maximum length”setting code

IND25 The maximum length

b) Scan the "Digital setting code". For example, the maximum length is 9 digits, scan 9; the maximum length is 20 digits, scan 2,0.

c) Scan the "OK" setting code to end the setting.

OK

11.13 STD25

11.13.1 STD25 On and Off

Read the following setting codes to set the STD25 barcode enable/disable reading

*Disable

Enable

11.13.2 STD25 minimum length

There are two methods for STD25 minimum length setting.

Method 1:

STD25 Minimum length setting code content format:>!000133XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example: STD25 The minimum length is set to 2，then the setting code content is:>!0001332.

For example: STD25 The minimum length is set to 12，then the setting code content is:>!00013312.

Method 2:

a) Scan “STD25 minimum length” setting code

STD25 minimum length

b) Scan the "Digital setting code”. For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1, 2.

c) Scan the "OK" setting code to end the setting.

OK

11.13.3 STD25 The maximum length

There are two methods for STD25 the maximum length setting.

Method 1:

STD25 The content format of the maximum length setting code:>!000134XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example: STD25 The maximum length is set to 9，then the setting code content is:>!0001349.

For example: STD25 The maximum length is set to 20，then the setting code content is:>!00013420.

Method 2:

a) Scan “STD25 The maximum length” setting code

STD25 The maximum length

b) Scan the "Digital setting code". For example, the maximum length is 9 digits, scan 9; the maximum length is 20 digits, scan 2,0.

c) Scan the "OK" setting code to end the setting.

OK

11.14 CODE39

11.14.1 CODE39 On and Off

Read the following setting codes to enable/disable reading of CODE39 barcodes.

*Disable

Enable

11.14.2 CODE39 check digit verification

Read the following setting code to set whether to verify the CODE39 check digit.

*Disable

Enable

11.14.3 CODE39 check digit transmission

Read the following setting code to set whether to transmit the CODE39 check digit.

【Note】To enable the transmission check digit, please enable the check digit verification function first

*Disable

Enable

11.14.4 CODE39 Start/End character transmissionStart/End character transmission

Read the following setting code to set whether to transmit CODE39 start character/end character.

*Disable

Enable

11.14.5 CODE39 FULL ASCII On and Off

Read the following setting code to enable/disable reading of CODE39 FULL ASCII barcode.

*Disable

Enable

11.14.6 CODE39 minimum length

There are two methods for CODE39 minimum length settting .

Method 1:

CODE39 Minimum length setting code content format:>!000145XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example:CODE39 The minimum length is set to 2，then the setting code content is:>!0001452.

For example:CODE39 The minimum length is set to 12，then the setting code content is:>!00014512.

Method 2:

a) Scan “CODE39 minimum length” setting code

CODE39 minimum length

b) Scan the "Digital setting code”. For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1, 2.

c) Scan the "OK" setting code to end the setting.

OK

11.14.7 CODE39 The maximum length

There are two methods for CODE39 The maximum length setting.

Method 1:

CODE39 The content format of the maximum length setting code:>!000146XX. Among them, XX is the setting variable, and the decimal range is 0-255. For example: CODE39 The maximum length is set to 9，then the setting code content is:>!0001469.

For example: CODE39 The maximum length is set to 20，then the setting code content is:>!00014620.

Method 2:

a) Scan “CODE39 The maximum length” setting code

CODE39 The maximum length

b) Scan the "Digital setting code". For example, the maximum length is 9 digits, scan 9; the maximum length is 20 digits, scan 2,0.

c) Scan the "OK" setting code to end the setting.

OK

11.14.8 CODE32 On and Off

Read the following setting code to change the enabling/disabling of CODE39 to CODE32.

*Disable

Enable

11.14.9 CODE32 PrefixPrefix

Read the following setting code to set whether to transmit the CODE32 prefix.

*Disable

Enable

11.14.10 CODE32 check digit verification

Read the following setting code to set whether to verify the CODE32 check digit.

*Disable

Enable

11.14.11 CODE32 check digit transmission

Read the following setting code to set whether to transmit the CODE32 check digit.

【Note】To enable the transmission check digit, please enable the check digit verification function first.

*Disable

Enable

11.15 CODABAR

11.15.1 CODABAR On and Off

Read the following setting code to enable/disable reading of CODABAR barcode.

*Disable

Enable

11.15.2 CODABAR check digit verification

Read the following setting code to set whether the CODABAR check digit is verified.

*Disable

Enable

11.15.3 CODABAR check digit transmission

Read the following setting code to set whether to transmit the CODABAR check digit.

【Note】To enable the transmission check digit, please enable the check digit verification function first.

*Disable

Enable

11.15.4 CODABAR Start/End character transmission

Read the following setting code to set whether to transmit CODABAR start character/end character.

*Disable

Enable

11.15.5 CODABAR Start/End character format

Read the following setting code to set the CODABAR start character/end character format.

*General ABCD format

ABCD/TN*E format

11.15.6 CODABAR Start/End character case

Read the following setting code to set whether the CODABAR start character/end character is uppercase or lowercase.

*Uppercase

Lowercase

11.15.7 CODABAR minimum length

There are two methods for CODABAR minimum length setting.

Method 1:

CODABAR Minimum length setting code content format:>!000156XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example: CODABAR The minimum length is set to 2，then the setting code content is:>!0001562.

For example: CODABAR The minimum length is set to 12，then the setting code content is:>!00015612.

Method 2:

a) Scan “CODABAR minimum length” setting code

CODABAR minimum length

b) Scan the "Digital setting code”. For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1, 2.

c) Scan the "OK" setting code to end the setting.

OK

11.15.8 CODABAR The maximum length

There are two methods for CODABAR the maximum length.

Method 1:

CODABAR The content format of the maximum length setting code:>!000157XX. Among them, XX is the setting variable, and the decimal range is 0-255. For example: CODABAR The maximum length is set to 9，then the setting code content is:>!0001579.

For example: CODABAR The maximum length is set to 20，then the setting code content is:>!00015720.

Method 2:

a) Scan “CODABAR The maximum length” setting code

CODABAR The maximum length

b) Scan the "Digital setting code". For example, the maximum length is 9 digits, scan 9; the maximum length is 20 digits, scan 2,0.

c) Scan the "OK" setting code to end the setting.

OK

11.16 CODE93

11.16.1 CODE93 On and Off

Read the following setting codes to enable/disable reading of CODE93 barcodes.

Disable

*Enable

11.16.2 CODE93 minimum length

There are two methods for CODE93 minimum length setting.

Method 1:

CODE93 Minimum length setting code content format:>!000163XX. Among them, XX is the setting variable, and the decimal range is 0-255. For example: CODE93 The minimum length is set to 2，then the setting code content is:>!0001632.

For example: CODE93 The minimum length is set to 12，then the setting code content is:>!00016312.

Method 2:

a) Scan “CODE93 minimum length” setting code

CODE93 minimum length

b) Scan the "Digital setting code". For example, if the minimum length is 2 digits, scan 2; if the minimum length is 12 digits, scan 1, 2.

c) Scan the "OK" setting code to end the setting.

OK

11.16.3 CODE93 The maximum length

There are two methods for CODE93 The maximum length setting.

Method 1:

CODE93 The content format of the maximum length setting code:>!000164XX. Among them, XX is the setting variable, and the decimal range is 0-255.

For example: CODE93 The maximum length is set to 9，then the setting code content is:>!0001649.

For example: CODE93 The maximum length is set to 20，then the setting code content is:>!00016420.

Method 2:

a) Scan “CODE93 The maximum length” setting code

b) Scan the "Digital setting code". For example, the maximum length is 9 digits, scan 9; the maximum length is 20 digits, scan 2,0.

c) Scan the "OK" setting code to end the setting.

OK

11.24 PDF417

11.24.1 PDF417 On and Off

Read the following setting codes to enable/disable reading of PDF417 barcodes.

Disable

*Enable

11.24.2 PDF417 Forward and reverse identification

Read the following setting code to set whether to read the forward/reverse PDF417 code.

*Read-only positive color

Read-only negative color

Readable in both positive and negative colors

11.25 QR

11.25.1 QR On and Off

Read the following setting codes to enable/disable reading of QR barcodes.

Disable

*Enable

11.25.2 QR positive and negative color recognition

Read the following setting code to set whether to read the forward/reverse color QR code.

*Read-only positive color

Read-only negative color

Readable in both positive and negative colors

Read-only positive color (reverse color code)

11.25.3 QR mirror recognition

Read the following setting code to set whether to read the mirrored QR code

Disable

*Enable

11.26 DATA MATRIX/DM

11.26.1 DM On and Off

Read the following setting codes to enable/disable reading of DM barcodes.

Disable

*Enable

11.26.2 DM Forward and reverse identification

Read the following setting codes to set whether the forward/reverse DM codes can be read.

*Read-only positive color

Read-only negative color

Readable in both positive and negative colors

11.26.3 DM mirror recognition

Read the following setting codes to set whether the mirror image DM code can be read or not.

Disable

*Enable

Appendix A：Digital setting code

The appendix contains the numbers 0-9; Letters A-F; Cancel; confirm setting codes.


0


1


2


3


4


5


6


7


8


9


A


B


C


D


E


F


OK


Cancel

Appendix B： CODE ID

Code character	Code character
C	CODE128/EAN/UCC 128/GS1-128
F	CODE39/CODE32
J	CODE11
B	CODABAR
K	CODE93
E	EAN13/EAN8/ISBN/ISSN
U	UPC-A/UPC-E
I	ITF25
D	IND25
S	STD25
M	MATRIX25
N	NEC25/COOP25
P	MSI PLSEEY
T	TELEPEN
A	PHARMACODE ONE-TRACK
W	TRIOPTIC
H	HONG KONG 2 of 5/CHINA POST
R	GS1 DATABAR/RSS
q	QR/MICRO QR
p	PDF 417/MICRO FDF 417
d	DATA MATRIX/DM
a	AZTEC CODE
h	HAN XIN
m	MAXI CODE
t	DOTCODE
g	GM
o	OCR
k	CODABLOCK A
f	CODABLOCK F
n	POSTAL CODE

Appendix C： AIM ID

Code character	AIM ID	Description
CODE128/EAN/UCC 128/GS1-128	]Cm	0,1,2,4
CODE39	]Am	0,1,3,4,5,7
CODE32	]X0	
CODE11	]Hm	0,1,3
CODABAR	]Fm	0-1
CODE93	]Gm	0-9,A-Z,a-m
EAN13	]E0	
EAN8	]E4	
ISSN		
ISBN	]E0	
UPC-A	]E0	
UPC-E	]E0	
UPC-E1	]E1	
ITF25	]Im	0,1,3
IND25	]S0	
STD25	]Rm	0,1,3
MATRIX25	]X0	
NEC25/COOP25	]X0	
MSI PLSEEY	]Mm	0,1
TELEPEN	]Bm	
PHARMACODE ONE-TRACK		
TRIOPTIC		
QR	]Qm	0-6
MICRO QR	]Qm	
PDF 417	]Lm	0-2
MICRO FDF 417	]Lm	3,4,5
DATA MATRIX/DM	]dm	0-6
AZTEC CODE	]zm	0-9,A-C
HAN XIN	]X0	
MAXI CODE	]Um	0-3
DOTCODE	]X0	
GM	]X0	
CODABLOCK A	]O6	0,1,4,5,6
CODABLOCK F	]Om	0,1,4,5,6
GS1 DATABAR/RSS	]e0	

Appendix D： Instruction Set

Parameter name		Instruction Set
Configuration	Factory configuration	>!0016000.>;99
	Default configuration	>!0016001.>;99
	Save the current configuration as the default configuration	>!0016010.>;99
Version Information		>!0006000.>;99
Set code On and Off	On	>!0010211.>;99
	Off	>!0010210.>;99
Set code data transmission	On	>!0010221.>;99
	Disable	>!0010220.>;99
Communication interface	USB KBW	>!0010061.>;99
	Serial	>!0010060.>;99
	USB COM	>!0010062.>;99
	HID POS	>!0010063.>;99
National keyboard	USA	>!00100B0.>;99
	Belgium	>!00100B2.>;99
	Brazil	>!00100B3.>;99
	Canada	>!00100B4.>;99
	Czechoslovakia	>!00100B5.>;99
	Denmark	>!00100B6.>;99
	Finland	>!00100B7.>;99
	France	>!00100B8.>;99
	Austria, Germany	>!00100B9.>;99
	Greece	>!00100B10.>;99
	Hungary	>!00100B11.>;99
	Israel	>!00100B12.>;99
	Italy	>!00100B13.>;99
	Latin America	>!00100B14.>;99
	Netherlands	>!00100B15.>;99
	Norway	>!00100B16.>;99
	Poland	>!00100B17.>;99
	Portugal	>!00100B18.>;99
	Romania	>!00100B19.>;99
	Russia	>!00100B20.>;99
	Slovakia	>!00100B21.>;99
	Spain	>!00100B22.>;99
	Sweden	>!00100B23.>;99
	Switzerland	>!00100B24.>;99

	Turkey F	>!00100B25.>;99
	Turkey Q	>!00100B26.>;99
	UK	>!00100B27.>;99
	Japan	>!00100B28.>;99
Keyboard type	Standard keyboard	>!00100E0.>;99
	Virtual Keyboard	>!00100E1.>;99
Character transmission time interval	0ms	>!00100C0.>;99
	5ms	>!00100C5.>;99
	10ms	>!00100C10.>;99
	20ms	>!00100C20.>;99
	30ms	>!00100C30.>;99
	50ms	>!00100C50.>;99
Control character output mode	Output function key	>!0010310.>;99
	Output Ctrl key combination	>!0010311.>;99
	Output Alt + number key	>!0010312.>;99
	Only output enter and down keys	>!0010313.>;99
Baud rate	600	>!0010071.>;99
	1200	>!0010072.>;99
	2400	>!0010073.>;99
	4800	>!0010074.>;99
	9600	>!0010075.>;99
	14400	>!0010076.>;99
	19200	>!0010077.>;99
	38400	>!0010078.>;99
	57600	>!0010079.>;99
	115200	>!00100710.>;99
Check digit	No check	>!0010090.>;99
	Odd	>!0010091.>;99
	Even	>!0010092.>;99
Stop bit	1 bit	>!00100A0.>;99
	2bit	>!00100A2.>;99
Data bit	5 bit	>!0010080.>;99
	6 bit	>!0010081.>;99
	7 bit	>!0010082.>;99
	8 bit	>!0010083.>;99
Handshake	ACK	>!0010381.>;99
	NAK	>!0010380.>;99
Input character set	Auto	>!00101C0.>;99
	GBK	>!00101C1.>;99
	UTF-8	>!00101C2.>;99
	ASCII	>!00101C3.>;99
	ShIFTJIS Japanese	>!00101C4.>;99
Output character set	Raw data	>!00101D0.>;99
	GBK	>!00101D1.>;99
	UTF-8	>!00101D2.>;99

Read mode	Key hold	>!0010000.>;99
	Single key trigger	>!0010001.>;99
	Continuous mode	>!0010002.>;99
	Sensing Mode	>!0010003.>;99
Induction Sensitivity	Extra Sensitive	>!0010050.>;99
	High Sensitivity	>!0010051.>;99
	Medium Sensitivity	>!0010058.>;99
	Low Sensitivity	>!00100515.>;99
Induction image stabilization duration	100ms	>!001004100.>;99
	200ms	>!001004200.>;99
	300ms	>!001004300.>;99
	400ms	>!001004400.>;99
	500ms	>!001004500.>;99
	1000ms	>!0010041000.>;99
Command Trigger	Start decode	>!200000.>;99
	Stop decode	>!200001.>;99
Device reset	Reset	>!200002.>;99
Same code reading	0ms	>!0010030.>;99
	100ms	>!001003100.>;99
	300ms	>!001003300.>;99
	500ms	>!001003500.>;99
	1000ms	>!0010031000.>;99
	3000ms	>!0010033000.>;99
Single scanning time	0ms (unlimited length)	>!0010010.>;99
	1000ms	>!0010011000.>;99
	2000ms	>!0010012000.>;99
	3000ms	>!0010013000.>;99
	5000ms	>!0010015000.>;99
	10000ms	>!00100110000.>;99
Scan code interval	0ms (no interval)	>!0010020.>;99
	500ms	>!001002500.>;99
	1000ms	>!0010021000.>;99
	2000ms	>!0010022000.>;99
	5000ms	>!0010025000.>;99
	10000ms	>!00100210000.>;99
Power Mode	Sleep	>!0010251.>;99
	Continuous Power	>!0010250.>;99
Lighting	Normal Lighting	>!0010150.>;99
	No lighting	>!0010151.>;99
	Lighting always on	>!0010152.>;99
Aim	Aim Normal	>!0010160.>;99
	No aiming	>!0010161.>;99
	Aiming always on	>!0010162.>;99
Buzzer Type	Active	>!0010111.>;99
	Passive	>!0010110.>;99

Buzzer frequency	500Hz	>!001036500.>;99
	1000Hz	>!0010361000.>;99
	1500Hz	>!0010361500.>;99
	2000Hz	>!0010362000.>;99
	2500Hz	>!0010362500.>;99
	2700Hz	>!0010362700.>;99
Volume	Low	>!00101040.>;99
	Mid	>!00101070.>;99
	High	>!001010100.>;99
	Mute	>!0010100.>;99
Power-on prompt tone	Sound	>!0010120.>;99
	Silent	>!0010121.>;99
Set code prompt tone	Sound	>!0010140.>;99
	Silent	>!0010141.>;99
Decoding prompt tone	Silent	>!0010130.>;99
	Sound	>!0010131.>;99
Decoding tone duration	50ms	>!00103750.>;99
	70ms	>!00103770.>;99
	100ms	>!001037100.>;99
	150ms	>!001037150.>;99
	200ms	>!001037200.>;99
	300ms	>!001037300.>;99
Prompt Light Type	Decoding Prompt	>!0010170.>;99
	Power prompt	>!0010171.>;99
Successful decoding prompt light On and Off	On	>!0010181.>;99
	Off	>!0010180.>;99
Decoding success prompt light control mode	Always off after power on	>!0010190.>;99
	Always on after power on	>!0010191.>;99
Decode Status NR Output	Output NR	>!0010241.>;99
	Don't output NR	>!0010240.>;99
AIM ID	Add AIM ID	>!00101B1.>;99
	Don't add AIM ID	>!00101B0.>;99
CODE ID	Add CODE id	>!00101A1.>;99
	Don't add CODE id	>!00101A0.>;99
Terminator	No Terminator	>!0010200.>;99
	Enter line feed	>!0010201.>;99
	Enter	>!0010202.>;99
	TAB	>!0010203.>;99
Letter case conversion	Normal output	>!00100D0.>;99
	All caps	>!00100D1.>;99
	All lowercase	>!00100D2.>;99
	Reverse case	>!00100D3.>;99
Prefix	Add prefix	>!00101E1.>;99

	Don't add prefix	>!00101E0.>;99
Example of prefix content setting	Add prefix A (hexadecimal 41)	>!01080041.>;99
	Add prefix AB(hexadecimal 41 42)	>!010800414243.>;99
Suffix	Add suffix	>!00101F1.>;99
	Don't add suffix	>!00101F0.>;99
Example of suffix content setting	Add suffix A (hexadecimal 41)	>!01080141.>;99
	Add suffix AB(hexadecimal 41 42)	>!010801414243.>;99
Hide fixed characters On and Off	On	>!00102C1.>;99
	Off	>!00102C0.>;99
Example of hidden fixed character content setting	Hidden character A	>!01080241.>;99
	Hide line feed function key	>!0108020A.>;99
Keep barcode data according to length	Disable	>!0010290.>;99
	Forward index	>!0010291.>;99
	Inverted index	>!0010292.>;99
Example of starting position of reserved data	Reserved from the 11th bit	>!00102A11.>;99
	Reserved from the 100th bit	>!00102A100.>;99
Example of the end position of reserved data	The 11th bit ends reserved	>!00102B11.>;99
	The 100th bit ends reserved	>!00102B100.>;99
Hide barcode data according to length	Disable	>!0010260.>;99
	Forward index	>!0010261.>;99
	Inverted index	>!0010262.>;99
Example of hidden data start position	The 11th position starts to hide	>!00102711.>;99
	The 100th position starts to hide	>!001027100.>;99
Example where hidden data ends	No. 11 ends hidden	>!00102811.>;99
	No. 100 ends hidden	>!001028100.>;99
Insert custom characters On and Off	Off	>!00102D0.>;99
	On	>!00102D1.>;99
Example of custom inserted data	Insert character A	>!01080341.>;99
	Insert character ABC	>!010803414243.>;99
Insert position setting example	Insert from before the 5th data	>!00102E5.>;99
	Insert from before the 20th data	>!00102E20.>;99
Character replacement functionOn and Off	Off	>!00102F0.>;99
	On	>!00102F1.>;99
Examples of substituted characters	A character is replaced	>!01080441.>;99
	The newline key is replaced	>!0108040A.>;99
Examples of replacement characters	The replacement character is B	>!01080541.>;99
	The replacement character is AC	>!0108044143.>;99
URL On and Off	On	>!0010330.>;99
	Off	>!0010331.>;99
Billing function On and Off	Off	>!0010340.>;99
	On	>!0010341.>;99

Invoice type	VAT special invoice	>!0010350.>;99
	General value-added tax invoice	>!0010351.>;99
GS1 rules On and Off	On	>!0010321.>;99
	Off	>!0010320.>;99
Global On and Off	Off	>!0005020.>;99
	On	>!0005021.>;99
1D global On and Off	Off	>!0005000.>;99
	On	>!0005001.>;99
2D global On and Off	Off	>!0005010.>;99
	On	>!0005011.>;99
Global reverse color On and Off	Off	>!0005030.>;99
	On	>!0005031.>;99
128 reverse color On and Off	Off	>!0000150.>;99
	On	>!0000151.>;99
CODE39 reverse color	Off	>!00014B0.>;99
	On	>!00014B1.>;99
EAN/UPC reverse color On and Off	Off	>!0000560.>;99
	On	>!0000561.>;99
CODE93 reverse color On and Off	Off	>!0001650.>;99
	On	>!0001651.>;99
CODABAR reverse color On and Off	Off	>!0001580.>;99
	On	>!0001581.>;99
ITF25 reverse color On and Off	Off	>!0000B50.>;99
	On	>!0000B51.>;99
CODE128 Barcode On and Off	Off	>!0000100.>;99
	On	>!0000101.>;99
CODE128 example of minimum length setting	2 bit CODE128	>!0000122.>;99
	11 bit CODE128	>!00001211.>;99
CODE128 example of maximum length setting	12 bit CODE128	>!00001312.>;99
	20 bit CODE128	>!00001320.>;99
CODE128 Security Level	Low	>!0000140.>;99
	Mid	>!0000141.>;99
	High	>!0000142.>;99
GS1-128 Barcode On and Off	Off	>!0000200.>;99
	On	>!0000201.>;99
GS1-128 example of minimum length setting	2 bit GS1-128	>!0000222.>;99
	11 bit GS1-128	>!00002211.>;99
GS1-128 example of maximum length setting	12 bit GS1-128	>!00002312.>;99
	20 bit GS1-128	>!00002320.>;99
CODE39 Barcode On and Off	Off	>!0001400.>;99
	On	>!0001401.>;99
CODE39 FULL ASCII On and Off	Off	>!0001440.>;99
	On	>!0001441.>;99
CODE39 check digit	Off	>!0001410.>;99

verification	On	>!0001411.>;99
CODE39 check digit transmission	Off	>!0001420.>;99
	On	>!0001421.>;99
CODE39 start/end character transmission	Off	>!0001430.>;99
	On	>!0001431.>;99
CODE39 minimum length example	5 bit CODE39	>!0001455.>;99
CODE39 maximum length example	12 bit CODE39	>!00014612.>;99
CODE32 Barcode On and Off	Off	>!0001470.>;99
	On	>!0001471.>;99
CODE32 Prefix	Off	>!0001480.>;99
	On	>!0001481.>;99
CODE32 check digit verification	Off	>!0001490.>;99
	On	>!0001491.>;99
CODE32 check digit transmission	Off	>!00014A0.>;99
	On	>!00014A1.>;99
EAN13 BarcodeOn and Off	Off	>!0000600.>;99
	On	>!0000601.>;99
EAN13 check digit transmission	Off	>!0000610.>;99
	On	>!0000611.>;99
EAN13+2 bit additional code	Off	>!0000620.>;99
	On	>!0000621.>;99
EAN13+5 bit additional code	Off	>!0000630.>;99
	On	>!0000631.>;99
Read only with additional code EAN13	Off	>!0000640.>;99
	On	>!0000641.>;99
EAN8 Barcode On and Off	Off	>!0000500.>;99
	On	>!0000501.>;99
EAN8 check digit transmission	Off	>!0000510.>;99
	On	>!0000511.>;99
EAN8+2 bit additional code	Off	>!0000520.>;99
	On	>!0000521.>;99
EAN8+5 bit additional code	Off	>!0000530.>;99
	On	>!0000531.>;99
Read only with additional code EAN8	Off	>!0000540.>;99
	On	>!0000541.>;99
ISSN Barcode On and Off	Off	>!0000700.>;99
	On	>!0000701.>;99
ISBN Barcode On and Off	Off	>!0000800.>;99
	On	>!0000801.>;99
UPC-A Barcode On and Off	Off	>!0000A00.>;99
	On	>!0000A01.>;99
UPC-A check digit transmission	Off	>!0000A10.>;99
	On	>!0000A11.>;99
UPC-A+2 bit additional code	Off	>!0000A20.>;99
	On	>!0000A21.>;99

UPC-A+5 bit additional code	Off	>!0000A30.>;99
	On	>!0000A31.>;99
Read only with additional code UPC-A	Off	>!0000A40.>;99
	On	>!0000A41.>;99
Transmission system characters	Off	>!0000A50.>;99
	On	>!0000A51.>;99
UPC-E Barcode On and Off	Off	>!0000900.>;99
	On	>!0000901.>;99
UPC-E check digit transmission	Off	>!0000910.>;99
	On	>!0000911.>;99
UPC-E+2 bit additional code	Off	>!0000920.>;99
	On	>!0000921.>;99
UPC-E+5 bit additional code	Off	>!0000930.>;99
	On	>!0000931.>;99
Read only with additional code UPC-E	Off	>!0000940.>;99
	On	>!0000941.>;99
UPC-E to UPC-A	Off	>!0000960.>;99
	On	>!0000961.>;99
Transmission system characters 0	Off	>!0000950.>;99
	On	>!0000951.>;99
UPC-E1 Barcode On and Off	Off	>!0000970.>;99
	On	>!0000971.>;99
CODE93 Barcode On and Off	Off	>!0001600.>;99
	On	>!0001601.>;99
CODE93 minimum length example	5 bit CODE93	>!0001635.>;99
CODE93 maximum length example	12 bit CODE93	>!00016412.>;99
CODABAR Barcode On and Off	Off	>!0001500.>;99
	On	>!0001501.>;99
CODABAR check digit verification	Off	>!0001510.>;99
	On	>!0001511.>;99
CODABAR check digit transmission	Off	>!0001520.>;99
	On	>!0001521.>;99
CODABAR Start/end character transmission	Off	>!0001530.>;99
	On	>!0001531.>;99
CODABAR Start/end character transmission FORMAT	ABCD/TN*E format	>!0001541.>;99
	Normal ABCD format	>!0001540.>;99
CODABAR convert start/end character to case	Lower case	>!0001551.>;99
	Uppercase	>!0001550.>;99
CODABAR minimum length example	5 bit CODABAR	>!0001565.>;99
CODABAR maximum length example	12 bit CODABAR	>!00015712.>;99
ITF25 Barcode On and Off	Off	>!0000B00.>;99
	On	>!0000B01.>;99
ITF25 check digit verification	Off	>!0000B10.>;99

	On	>!0000B11.>;99
ITF25 check digit transmission	Off	>!0000B20.>;99
	On	>!0000B21.>;99
ITF25 minimum length example	5 bit ITF25	>!0000B35.>;99
ITF25 maximum length example	12 bit ITF25	>!0000B412.>;99
MATRIX25 Barcode On and Off	Off	>!0001100.>;99
	On	>!0001101.>;99
MATRIX25 check digit verification	Off	>!0001110.>;99
	On	>!0001111.>;99
MATRIX25 check digit transmission	Off	>!0001120.>;99
	On	>!0001121.>;99
MATRIX25 minimum length example	5 bit MATRIX25	>!00011345.>;99
MATRIX25 maximum length example	12 bit MATRIX25	>!00011412.>;99
STD25 Barcode On and Off	Off	>!0001300.>;99
	On	>!0001301.>;99
STD25 minimum length example	5 bit STD25	>!0001335.>;99
STD25 maximum length example	12 bit STD25	>!00013412.>;99
IND25 Barcode On and Off	Off	>!0001200.>;99
	On	>!0001201.>;99
IND25 minimum length example	5 bit IND25	>!0001235.>;99
IND25 maximum length example	12 bit IND25	>!00012412.>;99
NEC25 Barcode On and Off	Off	>!0001000.>;99
	On	>!0001001.>;99
NEC25 check digit verification	Off	>!0001010.>;99
	On	>!0001011.>;99
NEC25 check digit transmission	Off	>!0001020.>;99
	On	>!0001021.>;99
NEC25 minimum length example	5 bit NEC25	>!0001035.>;99
NEC25 maximum length example	12 bit NEC25	>!00010412.>;99
HK25/ChinaPost/Datalogic25 Barcode On and Off	Off	>!0001F90.>;99
	On	>!0001F91.>;99
CODE11 Barcode On and Off	Off	>!0001700.>;99
	On	>!0001710.>;99
CODE11 check digit verification	No check	>!0001710.>;99
	1 bit check	>!0001711.>;99
	2 bit check	>!0001712.>;99
CODE11 check digit transmission	Off	>!0001720.>;99
	On	>!0001721.>;99
CODE11 minimum length example	5 bit CODE11	>!0001735.>;99
CODE11 maximum length	12 bit CODE11	>!00017412.>;99

example		
MSI PLSEEY Barcode On and Off	Off	>!0001900.>;99
	On	>!0001901.>;99
MSI PLESSY check digit verification	MOD10 Single character check	>!0001911.>;99
	MOD10/MOD10 Double character check	>!0001912.>;99
	MOD10/MOD11 Double character check	>!0001913.>;99
MSI PLESSY check digit transmission	Off	>!0001921.>;99
	On	>!0001920.>;99
MSIPLESSY minimum length example	5 bit MSIPLESSY	>!0001935.>;99
MSIPLESSY maximum length example	12 bit MSIPLESSY	>!00019412.>;99
TELEPEN On and Off	Off	>!0001B90.>;99
	On	>!0001B91.>;99
PHARMACODE ONE-TRACK On and Off	Off	>!0001C00.>;99
	On	>!0001C01.>;99
Barcode direction	Horizontal	>!0001C10.>;99
	Vertical	>!0001C11.>;99
Data inversion	Off	>!0001C20.>;99
	On	>!0001C21.>;99
TRIOPTIC Barcode On and Off	Off	>!0001C90.>;99
	On	>!0001C91.>;99
Brazilian bank code Barcode On and Off	Off	>!0000B60.>;99
	On	>!0000B61.>;99
QR BarcodeOn and Off	Off	>!0003100.>;99
	On	>!0003101.>;99
QR Forward and reverse identification	Read-only forward	>!0003120.>;99
	Read only reverse	>!0003121.>;99
	Both forward and reverse	>!0003122.>;99
QR mirror recognition	Off	>!0003140.>;99
	On	>!0003141.>;99
DM Barcode On and Off	Off	>!0003200.>;99
	On	>!0003201.>;99
DM Forward and reverse identification	Read-only forward	>!0003220.>;99
	Read only reverse	>!0003221.>;99
	Both forward and reverse	>!0003222.>;99
DM mirror recognition	Off	>!0003240.>;99
	On	>!0003241.>;99
PDF417 Barcode On and Off	Off	>!0003000.>;99
	On	>!0003001.>;99
PDF417 Forward and reverse identification	Read-only forward	>!0003020.>;99
	Both forward and reverse	>!0003022.>;99
AZTEC CODE BarcodeOn and Off	Off	>!0003400.>;99
	On	>!0003401.>;99
	Off	>!0001A00.>;99

GS1 DATABAR Barcode On and Off	On	>!0001A01.>;99
COMPSITE Barcode On and Off	Off	>!0001B00.>;99
	On	>!0001B01.>;99
HAN XIN Barcode On and Off	Off	>!0003500.>;99
	On	>!0003501.>;99
HAN XIN barcode ECI control	Don't output ECI	>!0003530.>;99
	Output ECI	>!0003531.>;99
MAXI CODE Barcode On and Off	Off	>!0003300.>;99
	On	>!0003301.>;99
DOTCODE Barcode On and Off	Off	>!0003700.>;99
	On	>!0003701.>;99
CODABLOCK A Barcode On and Off	Off	>!0001D00.>;99
	On	>!0001D01.>;99
CODABLOCK F Barcode On and Off	Off	>!0001D90.>;99
	On	>!0001D91.>;99
GM code BarcodeOn and Off	Off	>!0003600.>;99
	On	>!0003601.>;99
AL CODE Barcode On and Off	Off	>!0001E00.>;99
	Australian	>!0001E01.>;99
	Royal Mail (RM4CSS)	>!0001E02.>;99
	Intelligent Mail Bar	>!0001E05.>;99
	Japanese Post	>!0001E06.>;99
	KIX Post	>!0001E07.>;99
	Planet code	>!0001E08.>;99
	USPS Postnet	>!0001E09.>;99
Planet code check digit transmission	Off	>!0001E10.>;99
	On	>!0001E11.>;99
Planet code check digit transmission	Off	>!0001E20.>;99
	On	>!0001E21.>;99
OCR On and Off	Off	>!0003800.>;99
	On	>!0003801.>;99
China ID check	Off	>!0003810.>;99
	On	>!0003811.>;99

Appendix E： ASCII Code Comparison Table

Hexadecimal	Keyboard function key operation	Keyboard CTRL key combination operation
00h	Null	CTRL 2
01h	Keypad Enter	CTRL A
02h	Caps lock	CTRL B
03h	Right Arrow	CTRL C
04h	Up Arrow	CTRL D
05h	Null	CTRL E
06h	Null	CTRL F
07h	Enter	CTRL G
08h	Left Arrow	CTRL H
09h	Horizontal Tab	CTRL I
0Ah	Down Arrow	CTRL J
0Bh	Vertical Tab	CTRL K
0Ch	Backspace	CTRL L
0Dh	Enter	CTRL M
0Eh	Insert	CTRL N
0Fh	Esc	CTRL O
10h	F11	CTRL P
11h	Home	CTRL Q
12h	Print Screen	CTRL R
13h	Delete	CTRL S
14h	tab+ shift	CTRL T
15h	F12	CTRL U
16h	F1	CTRL V
17h	F2	CTRL W
18h	F3	CTRL X
19h	F4	CTRL Y
1Ah	F5	CTRL Z
1Bh	F6	CTRL [
1Ch	F7	CTRL \
1Dh	F8	CTRL]
1Eh	F9	CTRL 6
1Fh	F10	CTRL -
20h	Space	
21h	!	
22h	‘	
23h	#	
24h	$	
25h	%	
26h	&	

27h	‘
28h	(
29h	)
2Ah	*
2Bh	+
2Ch	,
2Dh	-
2Eh	.
2Fh	/
30h	0
31h	1
32h	2
33h	3
34h	4
35h	5
36h	6
37h	7
38h	8
39h	9
3Ah	:
3Bh	;
3Ch	<
3Dh	=
3Eh	>
3Fh	?
40h	@
41h	A
42h	B
43h	C
44h	D
45h	E
46h	F
47h	G
48h	H
49h	I
4Ah	J
4Bh	K
4Ch	L
4Dh	M
4Eh	N
4Fh	O
50h	P
51h	Q
52h	R
53h	S
54h	T
55h	U

56h	V
57h	W
58h	X
59h	Y
5Ah	Z
5Bh	[
5Ch	\
5Dh	]
5Eh	^
5Fh	_
60h	‘
61h	a
62h	b
63h	c
64h	d
65h	e
66h	f
67h	g
68h	h
69h	i
6Ah	j
6Bh	k
6Ch	l
6Dh	m
6Eh	n
6Fh	o
70h	p
71h	q
72h	r
73h	s
74h	t
75h	u
76h	v
77h	w
78h	x
79h	y
7Ah	z
7Bh	{
7Ch	|
7Dh	}
7Eh	~
7Fh	

Appendix F： Code character

Barcode	Hexadecimal Type
CODE128/EAN/UCC 128/GS1-128	01h
CODE39/CODE32	14h
CODE11	17h
CODABAR	15h
CODE93	16h
EAN8	05h
EAN13/ISBN	06h
ISSN	07h
UPC-E	09h
UPC-A	0Ah
ITF25	0Bh
IND25	12h
STD25	13h
MATRIX25	11h
NEC25/COOP25	10h
MSI PLSEEY	19h
TELEPEN	1Fh
PHARMACODE ONE-TRACK	23h
TRIOPTIC	22h
QR/MICRO QR	3Dh
PDF 417/MICRO FDF 417	3Ch
DATA MATRIX/DM	3Fh
AZTEC CODE	3Eh
HAN XIN	43h
MAXI CODE	40h
DOTCODE	45h
GM	44h
CODABLOCK A	26h
CODABLOCK F	24h
GS1 DATABAR/RSS	1Ah
POSTAL CODE	25h
OCR	46h
HONG KONG 2 of 5/CHINA POST	20h