OPT-5000

User Manual

Version: V1.1.4

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Statement

Please be sure to read all the contents of this manual carefully before using the product to ensure safe and effective use of the product. Please 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 this product, the Company reserves the right to modify the documentation at any time without notice.

The use of this product is at the user's own risk, and to the maximum extent permitted by applicable law, the Company shall not be liable for damages and risks arising from the use or inability to use this product, including but not limited to direct or indirect personal damages, loss of business profits, interruption of trade, loss of business information or any other economic loss.

Applicable model comparison table

Please make sure to check your product model number before using this manual. If the model number does not match, some functions of this manual may not be applicable, and our company will not explain the reasons for not applying.

Serial NO.	Model	Description
1	L Series	Chapters 12-13 are not applicable
2	M Series	Chapter 13 is not applicable
3	H Series	All applicable
4		
5		
6		

Version Record

Versions	Date	Modified content			
		Chapter	Chapter Revisionist Content		
V1. 1. 0	2020. 04. 12	all	Geroge	Initial Version	
V1. 1. 1	2022. 08. 07	all	Joy	 General framework adjustment Partial error correction Standardize the uniform format of digital setting code 	
V1. 1. 2	2022. 08. 09	all	Joy	Bar code order sorting and error correction Partial error correction	
V1. 1. 3	2022. 08. 16	A11	Joy	 Remove the factory setting Modify the bar code type Add the packet format 	
V1. 1. 4	2022. 08. 25	A11	Joy	Joy 1. Adjust the barcode global operation 2. Add bar code security level	

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1 Start

1.1 Manual Description

This manual, includes code settings, function settings (lighting, keypad type and restore factory settings, etc.) and interface settings. If you need to change the function you need, just scan the configuration according to the following configuration codes, all with (*) indicate factory setting defaults.

1.2 Version Information

In order for the host to quickly read the version information of the current device, it can be confirmed by reading the "version information".



Version Information

1.3 Set code switch

By turning on the setting code function, the parameters of the scanner can be configured by scanning the setting code.

Note: When the configuration is modified by the setup code, the whole list of current flags will be saved to the memory, i.e. the configuration configured through the serial port but not saved will also be saved together.



Disable



*Enable

1.4 Set code content output

Whether the contents of the setting code are output or not, the parameters of the scanner can be configured by scanning the following setting code.



*Disable



Enable

1.5 User default settings

Users can save the configuration they often use as user default settings. By scanning "Save current settings as user default settings", the current configuration information of the device can be saved as user default settings, and the new configuration information will replace the original user default settings after the operation. And by scanning "restore user default settings", the scanner can be switched to user default settings.



Save the current configuration as default



Restore user default configuration

2 Communication Interface

2.1 USB HID-KBW

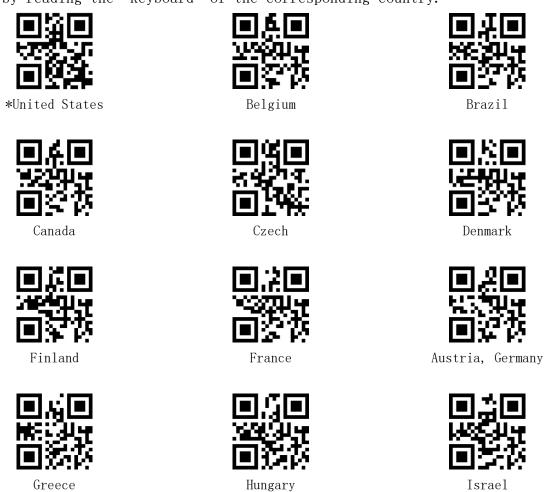
When the scanner is connected to the host computer using the USB cable, the scanner can be configured as a standard keyboard input by scanning the USB KBW setup code.



USB HID-KBW

2.1.1 Keyboard layout

In order to make the device available to all hosts in each country, it can be set up by reading the "keyboard" of the corresponding country.





2.1.2 Keyboard Type

Enabling the virtual keyboard allows you to output the correct data in any keyboard language mode. When using the virtual keyboard, you must make sure that the keypad numeric keys are enabled.





Virtual Keyboard

2.1.3 Alphabetic case conversion

Letter conversion, when outputting barcode 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 will be: AB123DE; if you scan the "convert to lowercase" barcode, the output result will be: ab123de; the default case is not converted.



*Normal output



All Caps



All lowercase



Reverse case

2.1.4 Character transmission interval

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

a) Scan "Character transmission interval" setting code



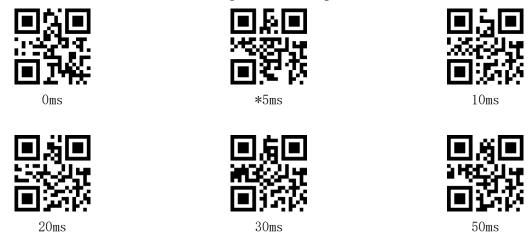
Character transmission interval

b) Scan the "digital setting code". For example, if the duration is 10ms, scan 1, 0; if the duration is 100ms, scan 1, 0, 0.

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



2.1.5 Character transfer interval quick setting



2.1.6 Control character output method

Control character in ASCII code (0x00-0x20) output method selection Output function keys: The control characters are used as custom function keys, see Appendix E for details of the functions.

Output CTRL key combination: CTRL key combination way to output control characters, see $\underline{\text{Appendix } E}$ for details of the function.

Output ALT + numeric keys: the Chinese environment to support the full control of the character output, see $\underline{\text{Appendix } E}$ for details of the function.



2.2 USB COM

When the scanner and the host computer are connected by USB cable, the scanner can be configured into virtual serial output mode by scanning the USB COM setting code



USB COM

2.3 Serial port

Serial port is a common way to connect the scanner and the host device (such as PC, POS and other devices). When the scanner and the host computer are connected by serial line, the system adopts serial communication mode by default. When using the serial communication interface, the communication parameters between the scanner and the host device must be fully matched in the configuration to ensure smooth communication and correct content.



TTL 232 serial port

The serial communication interface of the readout module uses TTL level signals (TTL-232), which can be adapted to most system architectures. If the system requires an RS-232 form factor, additional conversion circuitry will be required externally.

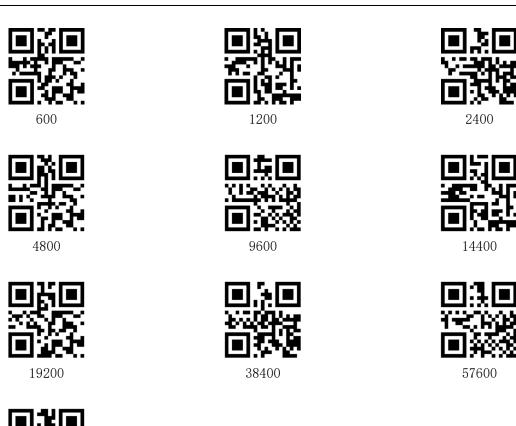
The default serial communication parameters of the read/write module are shown in Table 2-1.

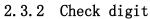
Serial Communication Parameters Table 2-1

Parameters	Default
Baud rate	115200
Check digit	None
Data bits	8
Stop bit	1

2.3.1 Baud rate

When the module and the host computer can communicate via TTL/RS232, the same communication parameters must be set to communicate properly, including transmission rate, checksum, flow control, etc. The transmission rate is the baud rate, the default baud rate is 115200.





*115200



2.3.3 Stop bit



*1 position



2 positions

2.3.4 Data bits



5 places



7 places



6 places



*8 places

2.4 HID POS

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



HID-POS

3 character set

3.1 Input character set

In order for the module to be able to read barcodes of various encoding formats, it can be set by reading the "Input Character Set".



3.2 Output character set

To allow the host computer to print Chinese data in the specified encoding format, you can set it by reading the "Output Character Set".



4 Reading mode

4.1 Common reading modes

4.1.1 Button Hold

Set to key hold mode, press the key to trigger the reading, release the key to end the reading. If the reading is successful or the reading time exceeds the single reading time, the reading will be ended.



Button Hold

4.1.2 Single keystroke trigger

Set to single key trigger mode, press the key to start reading, release the key reading will not stop, reading success or reading more than a single reading time to stop reading.



Single keystroke trigger

4.1.3 Continuous Mode

After setting, no need to trigger, the scanner immediately starts to read the code, when the code is read successfully output information or single scan time is over, wait for the scan interval timeout, will automatically start the next reading code.



Continuous Mode

4.1.4 auto-sensing mode

In the auto-sensing mode, the scanner will detect the brightness of the surrounding environment, and when the brightness changes, it will trigger the reading, and the reading will be successful or the reading time will exceed the single reading time to end the reading. Regardless of the last reading success or

failure, re-enter the detection of the brightness of the surrounding environment



auto-sensing mode

4.1.4.1 Sensing sensitivity

Sensitivity refers to the degree of change of the detected scene in the autosensing mode. When the scanner judges that the scene change degree meets the requirements, it will switch from monitoring state to reading state.







* High sensitivity

Medium sensitivity

Low sensitivity

4.1.4.2 Image steady time setting

Image steady time means that in the auto-sensing mode, the scanner which detects the scene change needs to wait for the image stabilization time before reading the code, steady image duration setting range: 0-65535ms, default value: 300ms.

a) Scan the "Image steady time" setting code



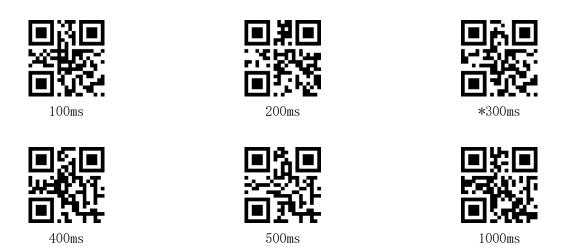
Image steady time

- b) Scan the "digital setting 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" setup code to end the setup



OK

4.1.4.3 Image steady time quick setting



4.1.5 Command Trigger Mode

Through the command trigger scanner reading, can be active through the command to end reading, reading success or reading time exceeds the single reading time will end reading, specific trigger command refer to Appendix D

[Note] Trigger and end commands are valid in any mode

4.2 Special reading mode

4.2.1 Screen Quick Mode

This mode is unconventional and not applicable to the general version of the product. It is suitable for the application scenario that needs to identify the screen code quickly, please contact the supplier if you need it.

4.2.2 Fast code reading mode

This mode is unconventional, the general version of the product is not applicable, suitable for the application scenario that needs to quickly read barcodes on all kinds of paper media, applicable to fixed modules, scanning platform and other product forms, please contact with the supplier if there is a demand.

4.3 Single scan time

The single reading time is the maximum time allowed to keep shooting reading attempts after triggering the reading, when the reading is not successful. When this length is exceeded, it will exit the reading state. The range of single reading time is: 0-65535ms, default: 5000ms.

4.3.1 Single scan time setting

d) Scan the "single scan time" setting code

10000ms



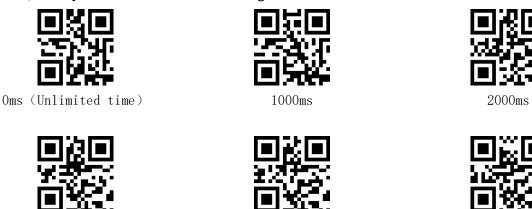
Single scan time

- e) Scan the "digital setting code". For example, if the duration is 100ms, scan 1, 0, 0; if the duration is 1005ms, scan 1, 0, 0, 5
- f) Scan the "OK" setup code to end the setup



OK

4.3.2 Quickly set the time of a single scan



4.4 Same code recognition

3000ms

In order to avoid the same barcode being read many times continuously in the continuous mode and auto-sensing mode, the scanner can be required to read the same barcode only after the set time delay; the same reading time delay means that after reading a barcode, it refuses to read the same barcode within the set time limit. Only after the time duration is exceeded, it can be read and output. The range is: 0-65535ms, default:0ms.

*5000ms

4.4.1 Same code reading interval setting

a) Scan "Same code interval" setting code

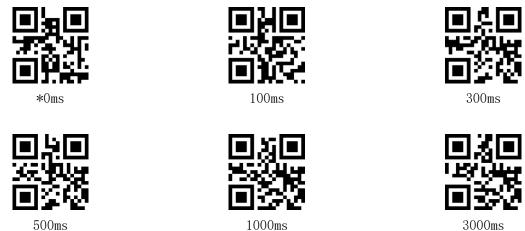


Same code time interval

- b) Scan the "digital setting code". For example, at 100ms interval, scan 1, 0, 0; at 1005ms interval, scan 1, 0, 0, 5
- c) Scan the "OK" setup code to end the setup



4.4.2 Same code reading interval fast setting



Interval between two consecutive readings

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

Default: 500ms, Range: 0-65535ms

4.5.1 interval time setting

a) Scan the "interval time" setting code



interval time

b) Scan the "digital setting code". For example, at 100ms interval, scan 1, 0, 0;

at 1005ms interval, scan 1, 0, 0, 5

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



4.5.2 Quickly set the length of time between scans



4.6 Power Control

4.6.1 Sleep mode

This parameter determines the power mode of the module. In sleep mode, the module goes to sleep as much as possible (it can be woken up by the wake-up command)



*Sleep mode

4.6.2 Continuous working mode

In continuous operation mode, the recognition module remains awake after each decoding attempt.



Continuous working mode

5 Lighting and aiming

5.1 Lighting

The illumination lamp provides auxiliary lighting for shooting and reading, and the light beam shines on the reading target to improve reading performance and adaptability to low ambient light. The user can set it to one of the following states depending on the application environment.

Lighting Normal (default setting): The illumination lights up when shooting and reading, and goes out at other times.

Lighting is always on: Illumination that glows continuously after the scanner is switched on.

No lighting: The lighting does not come on under any circumstances.



*Lighting normal



No lighting



Lighting is always on

5.2 Aiming

The projected aiming beam helps users to find the best reading distance when shooting and reading. Depending on the application environment, users can Choose any of the following modes.

Aiming normal (default setting): the scanner projects the aiming beam only when shooting reading.

Aiming always on: the scanner continuously projects aiming beam after powering up.

No aiming: the aiming beam is off in any case.



* Aiming normal



No aiming



Aiming always on

6 Prompt output

6.1 Prompt Related

6.1.1.1 Buzzer Type

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



*Passive buzzer



Active Buzzer

6.1.2 Volume size

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



Quiet



Low



Medium



*High

6.1.3 Power On Beep



Disable



*Enable

6.1.4 Setting code beep



Disable



*Enable

6.1.5 Decoding beep





*Enable

6.1.6 Buzzer frequency

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

a) Scan the "Buzzer Frequency" setting code



Buzzer Frequency

- b) Scan the "digital setting code". For example, if the frequency is 1500Hz, scan 1,5,0,0; if the frequency is 2700Hz, scan 2,7,0,0
- c) Scan the "OK" setup code to end the setup



6.1.7 Decoding Beep Quick Setup



1000Hz



1500Hz



2000Hz



2500Hz



*2700Hz



3000Hz



3500Hz

6.1.8 Decoding beep length

Users can set the length of the decoding beep according to their needs, the default is 50ms.

a) Scan the "beep length" setting code



Beep length

- b) Scan the "digital setting code". For example, if the duration is 50ms, scan 5,0; if the duration is 200ms, scan 2,0,0
- c) Scan the "OK" setup code to end the setup



OK

6.1.9 Decoding beep length quick setting



30ms



*50ms



70ms



100ms



200ms



300ms

- 6.2 Indicator light related
- 6.2.1 Indicator light function type







Power Indicator

6.2.2 Decoding success indicator light



Disable



*Enab

6.2.2.1 Decoding success light control method

Mode 0: always off when power on, light up when decoding is successful, light up for a specified time and then off

Mode 1: always light when power on, light when decoding is successful, light after the specified time



*Mode 0



Mode 1

6.3 Decoding status NR output

NR is the abbreviation of NO Read, before releasing the trigger button, if the barcode cannot be decoded within the timeout period, the message "NR" is allowed to be output; when this function is disabled, even if the barcode cannot be decoded, no message can be output to the host.



*Disable



Enable

Data Editing 7

7.1 Bar code ID

7.1.1 AIM ID

AIM is the abbreviation of Automatic Identification Manufacturers (AIM), and AIM ID defines the identification code for various standard barcodes respectively (AIM ID cannot be customized by users), which is defined in Appendix C: AIM ID List. The scanning module can add this identification code to the barcode data after decoding, the format is: "]" + letter "C" + number "0", for example, the AIM ID of CODE128 is "]CO". ID is "]CO". Users can use AIM ID to identify different barcode types.





*Disable

7.1.2 CODE ID

Users can identify different barcode types by CODE ID, which uses one character for identification. See Appendix B: CODE ID List for specific definitions





*Disable

Enable

7.2 Terminator

In order to enable the host to quickly distinguish the result of current decoding, the function of adding terminator can be enabled, and the recognition module adds the corresponding terminator after the decoded data.



Disable









7.3 Prefix

7.3.1 Prefix Switch

Prefix is a user-defined string modified before decoding information, and the prefix can be added by scanning the "enable" setting code, and the prefix can be cancelled by scanning "disable".





*Disable

Enable

7.3.2 Prefix content setting

Prefix setting can be used in two ways, method one requires user generated a QR code, which tends to set more prefix and is more flexible to use; method two can be scan the setting code according the manual.

Method I:

Add prefix setting code content format: >!010800XX. Where XX is the setting variable, XX using hex representation, two characters for a unit, the shortage of 0 to make up, can be arbitrarily superimposed, the maximum support for 10-bit data prefix.

For example: need to set the prefix character A, check <u>Appendix E</u> character cross-reference table, hex for 41, then set the code content: >!01080041.

For example: need to set the prefix character A B C, check <u>Appendix E</u> character table, hexadecimal 41 42 43, the set code content: >!010800<u>414243</u>.

Method 2:

a) Scan the "Prefix Settings" setting code



Prefix Settings

b) Scan the "digital setup code" in order, every two in a group.

For example: need to set the prefix character A, check the <u>appendix E</u> character comparison table, hexadecimal for 41, then scan 4 and 1, respectively

For example: need to set the prefix character ABC, check Appendix E character comparison table, hexadecimal for 414243, then scan 4, 1, 4, 2, 4, 3, respectively

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



7. 4 Suffix

7.4.1 Suffix Switch

The suffix is a user-defined string modified after decoding information, and the suffix can be added by scanning the "enable" setting code, and the suffix can be cancelled by scanning "disable".



Enable

7.4.2 Suffix content setting

Suffix setting can be used in two ways, method one requires the user to generate a QR code, tends to set more, the use of more flexible; method two can be scan the setting code according the manual.

Method I:

Add suffix setting code content format: >!010801XX. Where XX is the setting variable, XX using hexadecimal representation, two characters for a unit, the shortage of 0 to make up, can be arbitrarily superimposed, the maximum support for 10-bit suffix.

For example: you need to set the suffix character A, check <u>Appendix E</u> character cross-reference table, hexadecimal 41, then set the code content: >!010801<u>41</u>.

For example: need to set the suffix character ABC, check Appendix E character table, hexadecimal 414243, then set the code content: >!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: need to set the suffix character A, check the <u>appendix E</u> character comparison table, hexadecimal for 41, then scan 4 and 1 respectively

For example: need to set the suffix character ABC, check <u>Appendix E</u> character comparison table, hexadecimal for 414243, then scan 4, 1, 4, 2, 4, 3

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



7.5 Add prefix according to barcode type

7.5.1 Add prefix switch according to barcode type

Prefix is a user-defined string modified before decoding information, and the prefix can be added by scanning the "enable" setting code, and the prefix can be cancelled by scanning "disable".





Fnahle

7.5.2 Add prefix content setting according to barcode type

The prefix content can be set using two methods, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can be scan the setting code according the manual.

Method I:

The format of the prefix setting code according to the barcode type is: >!010806XXXX. Where XXXX is the setting variable, the first two XX indicate the barcode type, the relevant hex value can be found according to Appendix F, the latter XX is expressed in hex, two characters are one unit, the shortage is made up by 0, and can be superimposed arbitrarily, the maximum support for 10-bit data prefix.

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

For example: you need to set the CODE128 barcode prefix character A B C, according to <u>Appendix F</u>, the hex value of CODE128 is 01, check <u>Appendix E</u> character comparison table, character A B C hexadecimal is 41 42 43 respectively, then the setting code content is: >!010806**01414243**.

Method 2:

a) Scan the "Prefix Settings" setting code



Prefix Settings

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

For example: you need to set the prefix for CODE128, according to the barcode

type in Appendix F, the barcode type hex value of CODE128 is 01, then scan 0 and 1 respectively.

c) Set the prefix content, scan the <u>"digital setting code"</u> in turn, every two as a group.

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

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



7.5.3 Clear prefix according to barcode type

Clear the prefixes that have been set. Two methods can be used to clear the prefix, method one requires user generated a QR code, which tends to be more flexible to use for users with more settings; method two can be used by scanning the setting code within this manual according to the steps.

Method I:

Clear the prefix setting code according to the barcode type in the following format: >!010808 \underline{XX} . where \underline{XX} is the setting variable, \underline{XX} means the barcode type uses hexadecimal, two characters are one unit, and the shortage is made up by 0. The relevant hexadecimal value can be found according to Appendix F.

For example, if the CODE128 barcode prefix needs to be cleared, the hex value of CODE128 is 01 according to <u>Appendix F</u>, then the content of the setting code is: >!010808**01**.

Method 2:

a) Scan the "Clear Prefix" setting code



Clear Prefix

b) Clear the barcode type, scan the "digital setting code" in turn, every two

as a group.

For example: you need to clear CODE128 prefix, according to <u>Appendix F</u> barcode type, CODE128 barcode type hex value is 01, then scan 0 and 1 respectively.

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



7.6 Add suffix according to barcode type

7.6.1 Add suffix switch according to barcode type

The suffix is a user-defined string modified after decoding information, and the suffix can be added by scanning the "enable" setting code, and the suffix can be cancelled by scanning "disable".



*Disable



Enable

7.6.2 Add suffix content setting according to barcode type

Suffix content can be set using two methods, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can be set by scanning the code within this manual according to the steps.

Method I:

The content format of the setting code is: >!010807 \underline{XXXX} . where \underline{XXXX} is the setting variable, the first two \underline{XX} indicate the barcode type, the relevant hex value can be found according to $\underline{Appendix} \ F$, the latter \underline{XX} is expressed in hex, two characters are one unit, the shortage is made up by 0, and can be superimposed arbitrarily, the maximum support for 10-bit data suffix.

For example: you need to set CODE128 barcode suffix character A, according to Appendix F, the hex value of CODE128 is O1, check the character comparison table in Appendix E, the hex value of character A is 41, then the setting code content

is >!010807**0141.**

For example: you need to set CODE128 barcode suffix character A B C, according to <u>Appendix F</u>, the hexadecimal value of CODE128 is 01, check <u>Appendix E</u> character comparison table, character A B C hexadecimal is 41 42 43 respectively, then the setting code content is: >!010807<u>01414243</u>.

Method 2:

a) Scan the "Suffix Settings" setting code



Suffix Settings

- b) Set the barcode type, and scan the <u>"digital setting code"</u> in order, every two are a group.
 - For example: you need to set the suffix for CODE128, according to the barcode type in <u>Appendix F</u>, the barcode type of CODE128 is 01 in hexadecimal, then scan 0 and 1 respectively.
- c) set the suffix content, scan the "digital setting code" in turn, every two as a group.
 - For example: need to set the suffix character A, check <u>Appendix E</u> character cross-reference table, character A hexadecimal for 41, then scan 4 and 1 respectively
- d) Scan the "OK" setup code to end the setup



7.6.3 Clear suffix according to barcode type

Clear the suffixes that have been set. Two methods can be used to clear the suffix, method one requires user generated a QR code, which tends to be more flexible to use for users with more settings, and method two allows you to scan the setting code within this manual according to the steps.

Method I:

According to the barcode type, the content of the setting code is in the following format: >!010809XX. where XX is the setting variable, XX indicates that the barcode type uses hexadecimal, two characters are one unit, and the shortage is made up by 0. The relevant hexadecimal value can be found according to Appendix F.

For example, if the CODE128 barcode suffix needs to be cleared, the hexadecimal value of CODE128 is 01 according to <u>Appendix F</u>, then the content of the setting code is: >!010809**01**.

Method 2:

a) Scan the "Clear Suffix" setting code



Clear Suffix

b) Clear the barcode type, and scan the "digital setting code" in order, every two as a group.

For example: you need to clear the CODE128 suffix, according to the barcode type in Appendix F, the barcode type of CODE128 is 01 in hexadecimal value, then scan 0 and 1 respectively.

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



7.7 Hide fixed characters

This function can hide strings that the user does not need to output on demand.

7.7.1 Hide fixed character switch



*Disable



Enable

7.7.2 Hide fixed character settings

Hidden fixed character settings can be used in two ways, method one requires the user to generate a QR code, tends to set more, the use of more flexible; method two can be set according to the steps to scan the code within this manual

Method I:

Hidden fixed character setting code content format: >!010802 \underline{XX} . where \underline{XX} is the setting variable, \underline{XX} using hexadecimal representation, two characters for a unit, the shortage of 0 to make up, can be arbitrary superposition, the maximum support 20 bits.

For example, if you need to set the hidden character A, check the character comparison table in <u>Appendix E</u>, the hexadecimal is 41, then the setting code content is: >!010802<u>41</u>.

For example, if you need to set the hidden character ABC, check the character comparison table of <u>Appendix E</u>, the hexadecimal is 414243, then the code content is: >!010802414243.

Method 2:

a) Scan "Hide fixed characters" setting code



Hide fixed characters

b) Scan the "number setting code" in order, every two as a group.

For example: need to hide the character A, check the <u>appendix E</u> character comparison table, the hexadecimal is 41, then scan 4 and 1 respectively

For example, if you need to hide line break, check <u>Appendix E</u> character comparison table, hexadecimal is OA, then scan O and A respectively

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



OK

7.8 Retain barcode data according to length

This function allows you to retain the data needed by the user in the barcode

on demand.

7.8.1 Data retention switch







Forward Indexing



Reverse Indexing

[Note] Forward indexing (from the front end of the data as the starting position); reverse indexing (from the back end of the data as the starting position) 7.8.2 Retain data start position

The starting setup can be used in two ways, method one requires user generated a QR code, which tends to be more flexible to use for users with more settings, and method two allows you to scan the setup code within this manual according to the steps.

Method I:

Start position setting code content format: >!00102AXX where XX is the setting variable, decimal range 1-65535.

For example, if the starting position is set to 11, the setting code content will be: >!00102A11.

Method 2:

a) Scan the "start position" setting code



Starting position

- b) Scan the <u>"number setting code"</u>, and scan the corresponding number setting code from the first digit. For example, for the 11th digit, scan 1,1; for the 100th digit, scan 1,0,0.
- c) Scan the "OK" setup code to end the setup



7.8.3 Retain data end position

Two methods can be used to end the setup. Method 1 requires user generated a QR code, which tends to be more flexible to use for users with more settings; Method 2 can be used by scanning the setup code within this manual according to the steps.

Method I:

End position setting code content format: >!00102BXX. where XX is the setting variable, decimal range 1-65535.

For example, if the end position is set to 50, the content of the setting code is: >!00102B<u>50</u>.

Method 2:

a) Scan the "end position" setting code



End position

- b) Scan the "number setting code", and scan the corresponding number setting code from the end of the first digit. For example, for the 50th digit, scan 5,0.
- c) Scan the "OK" setup code to end the setup



7.9 Hide barcode data by length

This function can hide data in barcodes that users do not need on demand.

7.9.1 Hidden barcode data switch







Forward Indexing



Reverse Indexing

[Note] Forward indexing (from the front end of the data as the starting position); reverse indexing (from the back end of the data as the starting position) 7.9.2 Hide barcode data start position

The starting setup can be used in two ways, method one requires user generated a QR code, which tends to be more flexible to use for users with more settings, and method two allows you to scan the setup code within this manual according to the steps.

Method I:

Start position setting code content format: >!001027<u>XX</u>. where <u>XX</u> is the setting variable, decimal range 1-65535.

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

Method 2:

a) Scan the "start position" setting code



Starting position

- b) Scan the <u>"number setting code"</u>, and scan the corresponding number setting code from the first digit. For example, for the 11th digit, scan 1,1; for the 100th digit, scan 1,0,0.
- c) Scan the "OK" setup code to end the setup



7.9.3 Hide barcode data end position

Two methods can be used to end the setup. Method 1 requires user generated a QR code, which tends to be more flexible to use for users with more settings; Method 2 can be used by scanning the setup code within this manual according to the steps.

Method I:

End position setting code content format: >!001028<u>XX</u>. where <u>XX</u> is the setting variable, decimal range 1-65535.

For example: if the end position is set to 50, the content of the setting code

is: >!001028<u>**50**</u>.

Method 2:

a) Scan the "end position" setting code



End position

b) Scan the <u>"number setting code"</u>, and scan the corresponding number setting code from the end of the first digit. For example, for the 11th digit, scan 1,1.

For the 100th digit, scan 1,0,0.

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



7.10Hide barcode data of any length based on barcode type

This function can hide the data in the barcode that the user does not need according to the barcode type on demand.

7.10.1 Hide barcode data switch according to barcode type







*Disable

Forward Indexing

Reverse Indexing

[Note] Forward indexing (from the front end of the data as the starting position); reverse indexing (from the back end of the data as the starting position) 7.10.2 Hide data start position according to barcode type

The starting setup can be used in two ways, method one requires user generated a QR code, which tends to be more flexible to use for users with more settings, and method two allows you to scan the setup code within this manual according to the steps.

Method I:

The format of the starting position of the hidden data according to the barcode type is: >!01080A \underline{XXXX} . Where \underline{XXXX} is the setting variable, the first two \underline{XX} indicate the barcode type, the relevant hexadecimal value can be found according to Appendix F \underline{M} \overline{X} F, and the latter \underline{XX} is expressed in hexadecimal, two characters are one unit, the shortage is made up by 0, and the length range is 0x0000-0xFFFF.

For example, if the starting position of CODE128 needs to be set to 11th digit, the hexadecimal value of CODE128 is 01 according to Appendix F, the hexadecimal value of 11 is 0B, then the content of the setting code is: >!01080A**010B**.

Method 2:

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



Bar code type and starting position

b) Set the barcode type, and scan the "<u>numeric setting code</u>" in order, every two as a group.

For example, if you need to hide CODE128, according to the barcode type in Appendix F, the barcode type hexadecimal value of CODE128 is 01, then scan 0 and 1 respectively.

c) Set the starting position, and scan the "digital setting code" in order, every two as a group.

The use here refers to hexadecimal. For example, bit 11, hex 0B, scan 0, B; bit 100, hex 64, scan 6, 4.

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



Ok

7.10.3 Hide data end position according to barcode type

Two methods can be used to end the setup. Method 1 requires user generated a QR code, which tends to be more flexible to use for users with more settings; Method 2 can be used by scanning the setup code within this manual according to

the steps.

Method I:

The format of the end position of the hidden data according to the barcode type is: >!01080B \underline{XXXX} . where \underline{XXXX} is the setting variable, the first two \underline{XX} indicate the barcode type, the relevant hexadecimal value can be found according to $\underline{Appendix}$ \underline{F} , the latter \underline{XX} is expressed in hexadecimal, two characters are one unit, the shortage is made up by 0, the length range is 0x0000-0xFFFF.

For example, if the end position of CODE128 needs to be set to 100th digit, the hexadecimal value of CODE128 is 01 according to <u>Appendix F</u>, the hexadecimal value of 100 is 64, then the content of the setting code is: >!01080B**0164.**

Method 2:

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



Bar code type and end position

b) Set the barcode type, and scan the <u>"numeric setting code"</u> in order, every two as a group.

For example, if you need to hide CODE128, according to the barcode type in Appendix F, the barcode type hexadecimal value of CODE128 is 01, then scan 0 and 1 respectively.

c) Set the end position, and scan the "digital setting code" in turn, every two groups.

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

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



7.11Insert custom characters

This function allows you to insert user-defined data at any position in the

barcode data according to the requirements.

7.11.1 Insert custom data switch





Enable

7.11.2 Customized Data

Custom data can be used in two ways, method one requires user generated a QR code, which tends to set more users and is more flexible to use; method two can be set by scanning the code within this manual according to the steps

Method I:

Custom insert data setting code content format::>!010803 \underline{XX} . Where \underline{XX} is the setting variable, \underline{XX} using hexadecimal representation, two characters for a unit, the shortage of 0 to make up, can be arbitrary superposition, the maximum support for 20 bits of self-defined data.

For example: you need to insert custom data A, check <u>Appendix E</u> character cross-reference table, hexadecimal is 41, then the setting code content is: >!010803**41**.

For example: need to insert custom data ABC, check <u>Appendix E</u> character comparison table, hexadecimal for 414243, then set the code content: >!010803<u>414243</u>.

Method 2:

a) Scan the "Custom Data" setup code



Customized Data

- b) Scan the <u>"digital setup code"</u> in order, every two in a group.
 - For example: need to insert custom data A, check the <u>appendix E</u> character cross-reference table, hexadecimal for 41, then scan 4 and 1, respectively For example: need to insert custom data ABC, check <u>Appendix E</u> character cross-reference table, hexadecimal is 414243, then scan 4, 1, 4, 2, 4, 3, respectively
- c) Scan the "OK" setup code to end the setup



7.11.3 Insert Position

Insert location settings can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can be set by scanning the code within this manual according to the steps.

Method I;

Insert position setting code content format: >!00102EXX. where XX is the setting variable, decimal range 1-65535.

For example, if the insertion position is set to 11th digit, the content of the setting code is: >!00102E11.

Method 2:

a) Scan the "Insert Location" setting code



Insert Position

b) Scan the <u>"numeric setting code"</u>, insert the position, and scan the corresponding numeric setting code. For example, for the 11th position, scan 1,1.

For the 100th position, scan 1,0,0.

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



OK

7.12 Character substitution

This function can replace the data within the original string with any data as required.

7.12.1 Character Substitution Switch





Enable

7.12.2 Replaced character setting

The replaced characters can be set using two methods, method one requires the user to generate a QR code, which tends to set more users and is more flexible to use; method two can be set by scanning the code in this manual according to the steps

Method I:

The content of the replaced character setting code format: >!010804<u>XX</u>. where <u>XX</u> is the setting variable, <u>XX</u> using hexadecimal representation, two characters for a unit, the shortage of 0 to make up, can be arbitrary superposition, the maximum support 20 bits.

For example: the replaced character A, check <u>Appendix E</u> character cross-reference table, hexadecimal is 41, then the set code content is: >!01080441.

For example: the replaced character ABC, check the <u>appendix E</u> character comparison table, hexadecimal 414243, then set the code content: >!010804**414243**.

Method 2:

a) Scan "replaced character" setting code



Replaced characters

b) Scan the "digital setup code" in order, every two in a group.

For example: the replaced character A, check the <u>appendix E</u> character comparison table, hexadecimal 41, then scan 4 and 1, respectively

For example: the replaced character Line Feed, check the <u>Appendix E</u> character cross-reference table, hexadecimal OA, then scan O and A, respectively

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



7.12.3 Replacement character settings

Replacement character settings can be used in two ways, method one requires the user to generate a QR code, tends to set more users, the use of more flexible; method two can be set according to the steps to scan the code within this manual

Method I:

Replacement character setting code content format: >!010805 \underline{XX} . Where \underline{XX} is the setting variable, \underline{XX} using hexadecimal representation, two characters for a unit, the shortage of 0 to make up, can be arbitrary superposition, the maximum support 20 bits.

For example: character A replaces the original data, check <u>Appendix E</u> character comparison table, hexadecimal is 41, then the set code content is: >!01080541.

For example: character ABC replace the original data, check <u>Appendix E</u> character comparison table, hexadecimal 414243, then set the code content: >!010805<u>414243</u>.

Method 2:

a) Scan "replacement character" setting code



Replacement characters

b) Scan the "digital setup code" in order, every two in a group.

For example: character A replace the original data, check <u>Appendix E</u> character comparison table, hexadecimal 41, then scan 4 and 1, respectively

For example: character line feed replaces the original data, check <u>Appendix E</u> character cross-reference table, hexadecimal OA, then scan O and A, respectively

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



7.13 Line feed to carriage return

Line feeds (\n) and carriage return line feeds (\r\n) are converted to carriage returns (\r).





Enable

7.14 URL Switch

This function can disable the recognition of barcodes with web address information according to the requirements to prevent the barcodes with web address information from being scanned by mistake when scanning the barcodes of products, or for some other special applications.



*Enabling URL Code



Disable URL code

7.15 Invoicing function

In order to make the module work properly in the invoicing system, users can scan the following configuration codes to achieve invoice code format conversion and output.

[Note] This function supports Alipay QR code invoicing, does not support WeChat QR code invoicing

7.15.1 Invoicing function switch



*Disable



Enable

7.15.2 Invoice Type





General Ticket

7.16 GS1 Rule Enable

Enables the GS1 rule to enclose AI segments in parentheses.







Enab1

8 Instruction

8.1 Format

Command composition: The command uses ASCII strings and is composed as follows

Setting Code	Instruction Type	Checksum default uses "99"
--------------	------------------	----------------------------

指令类型

Instruction Type	Instruction
Permanent setup command	Set code + ">;99"
Temporary setup command	Set code + "^;99"
Query command	Set code + "?;99"
Return command is correct	Set code + "\$;99"
Return command error	Set code + "*;99"

For example: set the end character to carriage return, the setting code is >!0010201.

Function	Send	Return correctly	Error return	Remarks
Setup Instructions	>!0010201.>;99	>!0010201.\$;99	>!0010201.*;99	
Query command	>!0010201.?;99	>!001020X.\$;99	>!0010201.*;99	The value of the X query

8.2 Responding

When this option is selected and data is sent, the read module expects a response from the host. The scanner can also send an answer message to the host.



Disable



*Enable

9 Packet format

Package format

Identifier	Setting code type	Data format	Parameter	length	Barcode type	data	Check
>!	3	2	0004			variable	

name	lenght	Description
Identifier	2 bit	">!",
Setting code type	1 bit	"3"
Data format	1 bit	2: Data Stream
Parameter	4 bit	HexStr,0004
length	4 bit	HexStr,高 2 字符在前,低 2 字符在后,不包含校验位
Barcode type	1 bit	Type of bar code, data stream format, see Appendix F
data	Variable bytes	The base number is determined by the data format
check	2 bit	HexStr, XOR checksum, "99" means no checksum

9.1 Packet format switch

When enabled, the decoded data will be sent in packet format



*disable



Enable

10 Global operation of Bar Code

10.1 Global Switches



*Disable



Enable

10.2 1D code global switch



*Disable



Enable

10.3 2D Code Global Switch



*Disable



Enable

10.4 1D barcode security level

In order to solve the problem of bar code error in extreme cases, here are 5 security levels, the higher the level of the reading experience is relatively worse



level 0



*level 1



Level 2



Level 3



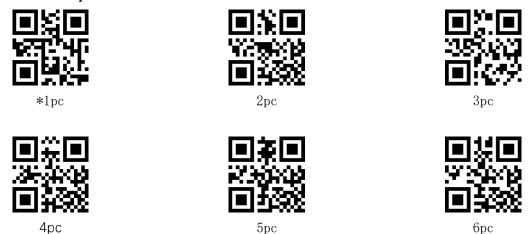
Level 4

10.5 Multi-code identification

Special application scenario, need to read more than one barcode at a time, read the following setting code, which will set Enable/Disable multi-code reading. 10.5.1 Must be able to read multiple codes



10.5.2 Read multiple codes



10.6 Global inverse color switch

Reading the following setting code will set the barcode inverse color Enable/Disable reading.

[Note] The global inverse color switch will have a greater impact on the performance of the reading device, and the commonly used barcode has a separate inverse color switch, so it is recommended to open it separately.



10.7 Partial inverse color switch

10.7.1 CODE128 inverse color switch

Reading the following setting code will set the CODE128 barcode Enable/Disable inverse color recognition. This setting is also valid for GS1-128





*Disable

Enable

10.7.2 EAN/UPC inverse color switch

Read the following setting code, which will set the EAN/UPC barcode Enable/Disable inverse color recognition







Enable

10.7.3 ITF25 inverse color switch

Read the following setting code, which will set the ITF25 barcode Enable/Disable inverse color recognition



*Disable



Enable

10.7.4 CODE39 inverse color switch

Reading the following setting code will set the CODE39 barcode Enable/Disable inverse color recognition



*Disable



Enable

10.7.5 CODABAR inverse color switch

Read the following setting code, which will set the CODABAR barcode Enable/Disable inverse color recognition





*Disable Enable

10.7.6 CODE93 inverse color switch

Reading the following setting code will set the CODE93 barcode Enable/Disable inverse color recognition







Enabl.

11 L Series - Barcode Type Enable/Disable Configuration

11. 1 CODE128

11. 1. 1 CODE128 switch

Reading the following setup code will set the CODE128 barcode Enable/Disable reading.





*Enabl

11.1.2 CODE128 minimum length

CODE128 minimum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can be set by scaning the code within this manual according to the steps.

Method I:

CODE128 minimum length setting code content format: >!000012XX. where XX is the setting variable, decimal range 0-255.

For example, if the minimum length of CODE128 is set to 2, then the code content is: $>!000012\underline{2}$.

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

Method 2:

a) Scan the "CODE128 minimum length" setting code



CODE128 minimum length

- b) Scan the "number 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" setup code to end the setup



11.1.3 CODE128 maximum length

CODE128 maximum length setting can be used in two ways, method one requires the user to generate a QR code, which tends to set more and is more flexible to use; method two can be set by scaning the code within this manual according to the steps.

Method I:

CODE128 maximum length setting code content format: >!000013XX. where XX is the setting variable, decimal range 0-255.

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

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

Method 2:

a) Scan the "CODE128 maximum length" setting code



CODE128 maximum length

- b) Scan the "number 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" setup code to end the setup



OK

11.1.4 CODE128 security level

The higher the barcode security level, the lower the false code rate, and the reading effect will be affected to a certain extent







11. 2EAN/UCC 128/GS1 128

11.2.1 GS1 128 switches

Reading the following setup code will set the GS1 128 barcode Enable/Disable reading.





Disable

*Enable

11.2.2 GS1 128 minimum length

GS1 128 minimum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can be set by scaning the code within this manual according to the steps.

Method I:

GS1 128 minimum length setting code content format: >!000022XX. where XX is the setting variable, decimal range 0-255.

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

For example, if the minimum length of GS1 128 is set to 12, the code content is: >!00002212.

Method 2:

a) Scan "GS1 128 minimum length" setting code



GS1 128 minimum length

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

c) 扫 Describe the "OK" setting code to end the setup



11.2.3 GS1 128 maximum length

GS1 128 maximum length setting can use two methods, method one requires user generated a QR code, which tends to set more users and is more flexible to use; method two can scan the setting code within this manual according to the steps.

Method 1:

GS1 128 maximum length setting code content format: >!000023XX. where XX is the setting variable, decimal range 0-255.

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

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

Method 2:

a) Scan the "GS1 128 maximum length" setting code



GS1 128 maximum length

- b) Scan the "number 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" setup code to end the setup



11. 3EAN8

11.3.1 EAN8 Switch

Read the following setting code, which will set the EAN8 barcode Enable/Disable reading





Disable

*Enable

11.3.2 EAN8 checksum bit transfer

Reading the following setup code will set whether the EAN8 transmits the parity bit or not.





Disable

*Enable

11.3.3 EAN8 reads 2-digit additional code

Reading the following setting code will set whether the EAN8 with 2-digit additional code can be read or not.





*Disable

Enable

11.3.4 EAN8 reads 5-digit add-on codes

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





*Disable

Enable

11.3.5 Read-only with add-on code EAN8

Reading the following setting code will set whether to read only EAN8 with additional code





*Disable Enable

11. 4EAN13

11.4.1 EAN13 Switch

Read the following setting code, which will set the EAN13 barcode Enable/Disable reading



Disable



*Enable

11.4.2 EAN13 Checksum Bit Transfer

Reading the following setup code will set whether the EAN13 transmits the parity bit or not.



Disable



*Enable

11.4.3 EAN13 reads 2-digit additional code

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



*Disable



Enable

11.4.4 EAN13 reads 5-digit add-on codes

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



*Disable



Enable

11.4.5 Read-only with additional code EAN13

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





*Disable

Enable

11.5 ISSN

Read the following setting code, the ISSN barcode Enable/Disable reading will be set

[Note] Disable ISSN, ISSN will be treated as EAN13





*Disable

Enable

11.6 ISBN

Read the following setting code, which will set the Enable/Disable reading of ISBN barcode

[Note] Disable ISBN, ISBN will be treated as EAN13





*Disable

Enable

11.7 UPC-E

11.7.1 UPC-E switch

Read the following setting code, which will set the UPC-E barcode Enable/Disable reading





Disable *Enable

11.7.2 UPC-E parity bit transfer

Reading the following setup code will set whether the UPC-E transmits the parity bit or not.







*Enabl

11.7.3 UPC-E reads 2-digit additional code

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



*Disable



Enahle

11.7.4 UPC-E reads 5-digit additional code

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



*Disable



Enable

11.7.5 Read-only with additional code UPC-E

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



*Disable



Enable

11.7.6 Transmission system character "0"

Reading the following setting code will set whether the UPC-E transmits the system character "0" or not.





*Enable

11.7.7 UPC-E to UPC-A

Reading the following setting code will set whether UPC-E is converted to UPC-A or not.





*Disable

Enable

11.7.8 UPC-E1 switch

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





*Disable

Enable

11.7.9 Transmission of country character "0"

Read the following setting code, which will set whether the UPC-E transmits the country character "0" or not.





*Disable

Enable

11.8UPC-A

11.8.1 UPC-A switch

Read the following setting code, which will set the UPC-A barcode Enable/Disable reading





*Fnahl

11.8.2 UPC-A parity bit transfer

Reading the following setup code will set whether the UPC-A transmits parity bits or not.





11.8.3 UPC-A reads 2-digit additional code

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



*Disable



Enable

11.8.4 UPC-A reads 5-digit additional code

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



*Disable



Enable

11.8.5 Read-only with additional code UPC-A

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





Enable

11.8.6 Transmission system character "0"

Reading the following setting code will set whether the UPC-A transmits system characters or not.







*Enable

11.8.7 Transmission of country character "0"

Read the following setting code to set whether UPC-E transmits the country character "0" or not. (It will be set whether to transfer UPC-A to EAN13 or not)



*Disable



Fnahle

11.9ITF25

11.9.1 ITF25 Switch

Reading the following setup code will set the ITF25 barcode Enable/Disable reading.



Disable



*Enable

11.9.2 ITF25 check digit verification

Reading the following setup code will set whether the ITF25 check digit is validated or not.





Fnahle

11.9.3 ITF25 parity bit transfer

Reading the following setting code will set whether the ITF25 parity bit is transmitted or not.

[Note] Enable transmit parity bit, please enable parity bit verification function first







Enable

11.9.4 ITF25 minimum length

ITF25 minimum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more users and is more flexible to use; method two can follow the steps to scan the setting code within this manual.

Method 1:

ITF25 minimum length setting code content format: >!0000B3 \underline{XX} . where \underline{XX} is the setting variable, decimal range 0-255.

For example, if the minimum length of ITF25 is set to 2, the code content is: >!0000B32.

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

Method 2:

a) Scan the "ITF25 minimum length" setting code



ITF25 minimum length

b) Scan the "number 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" setup code to end the setup



11.9.5 ITF25 maximum length

ITF25 maximum length setting can be used in two ways, method one requires a user-generated QR code, which tends to set more users and is more flexible to use; method two can be set by scanning the code within this manual according to the steps.

Method 1:

ITF25 maximum length setting code content format: >!0000B4 \underline{XX} . where \underline{XX} is the setting variable, decimal range 0-255.

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

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

Method 2:

a) Scan the "ITF25 maximum length" setting code



ITF25 maximum length

- b) Scan the "number 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" setup code to end the setup



OK

11.9.6 Brazilian government/bank code





Enable

11.10 NEC25/COOP25

11.10.1 NEC25 Switch

Reading the following setup code will set the NEC25 barcode Enable/Disable reading.





*Disable

Enable

11.10.2 NEC25 check digit verification

Reading the following setup code will set whether the NEC25 check digit is validated or not.





*Disable

Enable

11.10.3 NEC25 parity bit transfer

Reading the following setting code will set whether the NEC25 parity bits are transmitted or not.

[Note] Enable transmit parity bit, please enable parity bit verification function first





*Disable

Enable

11.10.4 NEC25 minimum length

NEC25 minimum length setting can be used in two ways, method one requires user

generated a QR code, which tends to set more and is more flexible to use; method two can follow the steps to scan the setting code within this manual.

Method 1:

NEC25 minimum length setting code content format: >!000103 \underline{XX} . Where \underline{XX} is the setting variable, decimal range 0-255.

For example, if the minimum length of NEC25 is set to 2, the code content is: >!0001032.

For example, if the minimum length of NEC25 is set to 12, the code content is: >!00010312.

Method 2:

a) Scan the "NEC25 minimum length" setting code



NEC25 minimum length

- b) Scan the "number 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" setup code to end the setup



11.10.5 NEC25 maximum length

NEC25 maximum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more users and is more flexible to use; method two can follow the steps to scan the setting code within this manual.

Method 1:

NEC25 maximum length setting code content format: >!000104 \underline{XX} . Where \underline{XX} is the setting variable, decimal range 0-255.

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

For example, if the maximum length of NEC25 is set to 20, then the code content

is: >!000104<u>20</u>.

Method 2:

a) Scan the "NEC25 maximum length" setting code



NEC25 maximum length

- b) Scan the "number 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" setup code to end the setup



OK

11.11 MATRIX25

11.11.1 MATRIX25 Switch

Reading the following setup code will set the MATRIX25 barcode Enable/Disable reading.



*Disable



Enable

11.11.2 MATRIX25 check digit verification

Reading the following setup code will set whether the MATRIX25 check digit is validated or not.



*Disable



Enable

11.11.3 MATRIX25 checksum bit transfer

Reading the following setting code will set whether the MATRIX25 parity bits

are transmitted or not.

[Note] Enable transmit parity bit, please enable parity bit verification function first





*Disable

Enable

11.11.4 MATRIX25 minimum length

MATRIX25 minimum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can be set by scanning the setting code within this manual according to the steps.

Method 1:

MATRIX25 minimum length setting code content format: >!000113XX. where XX is the setting variable, decimal range 0-255.

For example, if the minimum length of MATRIX25 is set to 2, the code will read: >!0001132.

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

Method 2:

a) Scan the "MATRIX25 minimum length" setting code



MATRIX25 minimum length

- b) Scan the "number 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" setup code to end the setup



OK

11.11.5 MATRIX25 maximum length

MATRIX25 maximum length setting can be used in two ways, method one requires a user-generated QR code, which tends to set more users and is more flexible to use; method two can be set by scanning the setting code within this manual according to the steps.

Method 1:

MATRIX25 maximum length setting code content format: >!000114 \underline{XX} . where \underline{XX} is the setting variable, decimal range 0-255.

For example, if the maximum length of MATRIX25 is set to 9, then the set code content is: >!0001149.

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

Method 2:

a) Scan the "MATRIX25 maximum length" setting code



MATRIX25 maximum length

- b) Scan the "number 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" setup code to end the setup



OK

11. 12 IND25

11. 12. 1 IND25 switch

Reading the following setup code will set the IND25 barcode Enable/Disable reading.





le Enab

11.12.2 IND25 minimum length

IND25 minimum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can be set by scanning the code within this manual according to the steps.

Method 1:

IND25 minimum length setting code content format: >!000123 \underline{XX} . where \underline{XX} is the setting variable, decimal range 0-255.

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

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

Method 2:

a) Scan the "IND25 minimum length" setting code



IND25 minimum length

- b) Scan the "number 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" setup code to end the setup



OK

11.12.3 IND25 maximum length

IND25 maximum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method

two can be set by scanning the code within this manual according to the steps.

Method 1:

IND25 maximum length setting code content format: >!000124 \underline{XX} . where \underline{XX} is the setting variable, decimal range 0-255.

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

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

Method 2:

a) Scan the "IND25 maximum length" setting code



IND25 maximum length

- b) Scan the "number 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" setup code to end the setup



11. 13 STD25

11.13.1 STD25 switch

Reading the following setup code will set the STD25 barcode Enable/Disable reading.



*Disable



Enable

11.13.2 STD25 minimum length

STD25 minimum length setting can be used in two ways, method one requires user

generated a QR code, which tends to set more and is more flexible to use; method two can be set by scanning the setting code within this manual according to the steps.

Method 1:

STD25 minimum length setting code content format: >!000133 \underline{XX} . Where \underline{XX} is the setting variable, decimal range 0-255.

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

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

Method 2:

a) Scan the "STD25 minimum length" setting code



STD25 minimum length

- b) Scan the "number 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" setup code to end the setup



11.13.3 STD25 maximum length

STD25 maximum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can be set by scanning the setting code within this manual according to the steps.

Method 1:

STD25 maximum length setting code content format: >!000134 \underline{XX} . where \underline{XX} is the setting variable, decimal range 0-255.

For example, if the maximum length of STD25 is set to 9, the set code content

will be: >!0001349.

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

Method 2:

a) Scan the "STD25 maximum length" setting code



STD25 maximum length

- b) Scan the "number 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" setup code to end the setup



11. 14 CODE39

11.14.1 CODE39 switch

Reading the following setting code will set the CODE39 barcode Enable/Disable reading



Disable



*Enable

11.14.2 CCODE39 Check Bit Verification

Reading the following setup code will set whether the CODE39 check digit is validated or not.



*Disable



Enable

11.14.3 CODE39 checksum bit transfer

Reading the following setting code will set whether the CODE39 parity bit is transmitted or not.

[Note]Enable transmit parity bit, please enable parity bit verification function first



*Disable



Enable

11.14.4 CODE39 Start/end character transfer

Reading the following setup code will set whether the CODE39 start/end character is transmitted or not.



*Disable



Enable

11.14.5 ODE39 FULL ASCII Switch

Reading the following setup code will set the CODE39 FULL ASCII barcode Enable/Disable reading.



*Disable



Enable

11.14.6 CODE39 minimum length

CODE39 minimum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can be set by scanning the code within this manual according to the steps.

Method 1:

CODE39 minimum length setting code content format: >!000145XX. where XX is the setting variable, decimal range 0-255.

For example, if the minimum length of CODE39 is set to 2, then the code content

is: >!000145<u>2</u>.

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

Method 2:

a) Scan the "CODE39 minimum length" setting code



CODE39 minimum length

- b) Scan the "number 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" setup code to end the setup



11.14.7 CODE39 maximum length

CODE39 maximum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can be set by scanning the setting code inside this manual according to the steps.

Method 1:

CODE39 maximum length setting code content format: >!000146XX. where XX is the setting variable, decimal range 0-255.

For example, if the maximum length of CODE39 is set to 9, the code content will be: >!000146<u>9</u>.

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

Method 2:

a) Scan the "CODE39 maximum length" setting code



CODE39 maximum length

- b) Scan the "numeric setting code". For example, if the maximum length is 9-bit, scan 9; if the maximum length is 20-bit, scan 2, 0
- c) Scan the "OK" setup code to end the setup



11.14.8 CODE32Switch

Read the following setting code to convert Enable/DisableCODE39 to the CODE32 setting



*Disable



Enable

11.14.9 CODE32 Prefix

Reading the following setup code will set whether CODE32 Prefix is transmitted or not.



*Disable



Enable

11.14.10 CODE32 Check Bit Verification

Reading the following setup code will set whether the CODE32 checksum bit is validated or not.



*Disable



Enable

11.14.11 CODE32 Checksum bit transfer

Reading the following setting code will set whether CODE32 check-bit is

transmitted or not.

[Note] To enable the transmission of check bits, please enable the Check Bit Verification function first.





*Disable

Enable

11.15 CODABAR

11.15.1 CODABAR Switch

Read the following setting code, which will set the CODABAR barcode Enable/Disable reading





*Disable

Enable

11.15.2 CODABAR Check Bit Verification

Reading the following setup code will set whether the CODABAR check digit is validated or not.





*Disable

Enable

11.15.3 CODABAR Checksum bit transfer

Read the following setting code, which will set whether CODABAR check-bit is transmitted or not.

[Note] Enable Transfer Check Bit, please enable Check Bit Verification function first.





*Disable

Enable

11.15.4 CODABAR start/end character transfer

Reading the following setup code will set whether the CODABAR start character/end character is transmitted or not.



Disable



*Enable

11.15.5 CODABAR start/end character format

Reading the following setup code will set the CODABAR start character/end character format.



*Common ABCD format



ABCD/TN*E format

11.15.6 CODABAR start/end character upper/lower case

Reading the following setting code will set the CODABAR start/end character to be Capital letters or Lowercase.



*Capital letters



Lowercase

11.15.7 CODABAR minimum length

CODABAR minimum length can be set using two methods, Method 1 requires users generate a QR code, which tends to set more and is more flexible to use; Method 2 can be set according to the steps to scan the setting code in this manual.

Method 1:

CODABAR minimum length setting code content format: >!000156XX. where XX is the setting variable, decimal range 0-255.

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

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

Method 2:

a) Scan the "CODABAR minimum length" setting code



CODABAR minimum length

- b) Scan the "numeric setting code". For example, if the minimum length is 2-bit, scan 2; if the minimum length is 12-bit, scan 1, 2
- c) Scan the "OK" setup code to end the setup



11.15.8 CODABAR maximum length

CODABAR maximum length setting can be used in two ways, Method 1 requires user generated a QR code, which tends to set more and is more flexible to use; Method 2 can be set according to the steps to scan the setting code in this manual.

Method 1:

CODABAR maximum length setting code content format: >!000157XX. where XX is the setting variable, decimal range 0-255.

For example, if the CODABAR maximum length is set to 9, the set code content is: >!0001579.

For example, if the CODABAR maximum length is set to 20, the code will read: >!000157<u>20</u>.

Method 2:

a) Scan "CODABAR maximum length" setting code



CODABAR maximum length

b) Scan the "numeric setting code". For example, if the maximum length is 9-

bit, scan 9; if the maximum length is 20-bit, scan 2, 0

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



11.16 CODE93

11. 16. 1 CODE93 Switch

Reading the following setup code will set the CODE93 barcode Enable/Disable reading.





Disable

*Enable

11. 16. 2 CODE93 minimum length

CODE93 minimum length setting can be used in two ways, Method 1 requires user generated a QR code, which tends to set more and is more flexible to use; Method 2 can be set by scanning the setting code in this manual according to the steps.

Method 1:

CODE93 minimum length setting code content format: >!000163XX. where XX is the setting variable, decimal range 0-255.

For example, if CODE93 minimum length is set to 2, then the code content is: >!000163**2**.

For example, if CODE93 minimum length is set to 12, then the code content is: >!000163**12.**

Method 2:

a) Scan "CODE93 minimum length" setting code



CODE93 minimum length

b) Scan the "numeric setting code". For example, if the minimum length is 2-

bit, scan 2; if the minimum length is 12-bit, scan 1, 2

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



11.16.3 CODE93 maximum length

CODE93 maximum length setting can be used in two ways, Method 1 requires user generated a QR code, which tends to be more flexible for users with more settings, and Method 2 can be used by scanning the setting code in this manual according to the steps.

Method 1:

CODE93 maximum length setting code content format: >!000164 \underline{XX} . where \underline{XX} is the setting variable, decimal range 0-255.

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

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

Method 2:

a) 扫描 "CODE93 最大长度 "设置码



CODE93 maximum length

- b) Scan the "numeric setting code". For example, if the maximum length is 9-bit, scan 9; if the maximum length is 20-bit, scan 2, 0
- c) Scan the "OK" setup code to end the setup



Ok

11.17 CODE11

11. 17. 1 CODE11 Switch

Reading the following setup code will set the CODE11 barcode Enable/Disable reading.







Enable

11.17.2 CODE11Check Bit Verification

Reading the following setup code will set whether the CODE11 checksum-bit is validated or not.



*No calibration



1-bit checksum



2-bit checksum

11.17.3 CODE11Checksum bit transfer

Reading the following setup code will set whether the CODE11 checksum-bit is transmitted or not.

[Note] Enable Transfer Check Bit, please enable Check Bit Verification function first.



*Disable



Enable

11.17.4 CODE11 minimum length

CODE11 minimum length setting can be used in two ways, Method 1 requires user generated a QR code, which tends to set more and is more flexible to use; Method 2 can be set by scanning the setting code in this manual according to the steps.

Method 1:

CODE11 minimum length setting code content format: >!000173 \underline{XX} . where \underline{XX} is the setting variable, decimal range 0-255.

For example, if CODE11 minimum length is set to 2, then the code content is: >!0001732.

For example, if CODE11 minimum length is set to 12, then the code content is: >!00017312.

Method 2:

a) Scan "CODE11 minimum length" setting code



CODE11 minimum length

- b) Scan the "numeric setting code". For example, if the minimum length is 2-bit, scan 2; if the minimum length is 12-bit, scan 1, 2
- c) Scan the "OK" setup code to end the setup



11.17.5 CODE11 maximum length

CODE11 maximum length setting can be used in two ways, Method 1 requires user generated a QR code, which tends to be more flexible for users with more settings; Method 2 can be used by scanning the setting code in this manual according to the steps.

Method 1:

CODE11 maximum length setting code content format: >!000174XX. where XX is the setting variable, decimal range 0-255.

For example, if CODE11 maximum length is set to 9, then the code content is: >!0001749.

For example: CODE11 maximum length is set to 20, then the set code content is: >!00017420.

Method 2:

a) Scan "CODE11 maximum length" setting code



CODE11 maximum length

- b) Scan the "numeric setting code". For example, if the maximum length is 9-bit, scan 9; if the maximum length is 20-bit, scan 2, 0
- c) Scan the "OK" setup code to end the setup



11.18 MSI PLSEEY

11.18.1 MSI PLSEEYSwitch

Reading the following setup code will set the MSI PLSEEY barcode Enable/Disable reading.



*Disable



Enable

11.18.2 MSI PLSEEYCheck Bit Verification

Reading the following setup code will set whether the MSI PLSEEY checksum-bit is validated or not.



*MOD10Single character checksum



MOD10/MOD10Double character checksum



MOD10/MOD11Double character checksum

11.18.3 MSI PLSEEYChecksum bit transfer

Read the following setting code, which will set whether MSI PLSEEY check-bit is transmitted or not.

[Note] To enable the transmission of check-bit, please enable the Check Bit Verification function first.



*Disable



Enable

11.18.4 MSI PLSEEY minimum length

MSI PLSEEY minimum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can follow the steps to scan the setting code inside this manual.

Method 1:

MSI PLSEEY minimum length setting code content format: >!000193 \underline{XX} . where \underline{XX} is the setting variable, decimal range 0-255.

For example, if the minimum length of MSI PLSEEY is set to 2, then the content of the setting code is: >!0001932.

For example, if the minimum length of MSI PLSEEY is set to 12, then the set code content is >!00019312.

Method 2:

a) Scan "MSI PLSEEY minimum length" setting code



MSI PLSEEY minimum length

- b) Scan the "numeric setting code". For example, if the minimum length is 2-bit, scan 2; if the minimum length is 12-bit, scan 1, 2
- c) Scan the "OK" setup code to end the setup



11.18.5 MSI PLSEEY Maximum Length

MSI PLSEEY maximum length setting can be used in two ways, method one requires user generated a QR code, which tends to set more and is more flexible to use; method two can follow the steps to scan the setting code within this manual.

Method 1:

MSI PLSEEY maximum length setting code content format: >!000194<u>XX</u>. where <u>XX</u> is the setting variable, decimal range 0-255.

For example, if the maximum length of MSI PLSEEY is set to 9, the content of

the setting code is: ≥ 10001949 .

For example, if the maximum length of MSI PLSEEY is set to 20, then the set code content is: >!000194<u>20</u>.

Method 2:

a) Scan "MSI PLSEEY maximum length" setting code



MSI PLSEEY Maximum Length

- b) Scan the "numeric setting code". For example, if the maximum length is 9-bit, scan 9; if the maximum length is 20-bit, scan 2, 0
- c) Scan the "OK" setup code to end the setup



11. 19 GS1 DATABAR/RSS

Reading the following setup code will set the GS1 DATABAR barcode Enable/Disable reading.



*Disable



Enable

11.20 COMPSITE

Read the following setting code, which will set the COMPSITE barcode Enable/Disable reading.

[Note] Enable COMPSITE composite code, please first Enable the individual corresponding code





*Disable Enable

11. 21 TELEPEN

Reading the following setting code will set the TELEPEN barcode Enable/Disable reading.





*Disable

11.22 TRIOPTIC

Reading the following setting code will set the TRIOPTIC barcode Enable/Disable reading.





*Disable

Enable

11.23 HONG KONG 2 of 5/CHINA POST

Reading the following setup code will set the HONG KONG 2 of 5 barcode Enable/Disable reading.





*Disable

Enable

11.24 PDF417

11. 24. 1 PDF417Switch

Reading the following setup code will set the PDF417 barcode Enable/Disable reading.





Disable

*Enable

11.24.2 PDF417 Forward and inverse identification

Reading the following setup code will set whether the forward/inverse PDF417 code can be read or not.







*Read only positive colors

Read-only inverse color

Positive inverse color are readable

11.25 QR

11.25.1 QR Switch

Reading the following setup code will set the QR barcode Enable/Disable reading.





Disable

*Enable

11.25.2 QR Forward and inverse identification

Reading the following setting code will set whether the forward/inverse color QR code can be read or not.







*Read only positive colors

Read-only inverse color

Positive inverse color are readable



Read only positive color (reverse color code)

11.25.3 QR Mirror recognition

Reading the following setting code will set whether the mirror QR code can be read or not





Disable

11.26 DATA MATRIX/DM

11.26.1 DM Switch

Reading the following setting code will set the DM barcode Enable/Disable reading.





Disable

*Enable

11.26.2 DM Forward and inverse identification

Reading the following setting code will set whether the forward/inverse DM code can be read or not.







*Read only forward colors

Read-only inverse color

Forward inverse color are readable

11.26.3 DM Mirror recognition

Reading the following setting code will set whether the mirror DM code can be read or not





*Disable Enable

11.27 AZTEC CODE

Reading the following setup code will set the AZTEC CODE barcode Enable/Disable reading.







Enable

12 M Series - Barcode Type Enable/Disable Configuration

The M series supports all the code systems of the L series and adds the code systems listed in this section to the L series

12.1 PHARMACODE ONE-TRACK

12.1.1 PHARMACODE ONE-TRACKSwitch

Reading the following setup code will set the PHARMACODE ONE-TRACK barcode Enable/Disable reading.





*Disable

Enabl€

12.1.2 PHARMACODE ONE-TRACKBar code direction

Reading the following setup code will set the PHARMACODE ONE-TRACK barcode horizontal/vertical orientation.





*Horizontal

Vertical

12.1.3 PHARMACODE ONE-TRACKData reversal

Reading the following setup code will set the PHARMACODE ONE-TRACK barcode data Enable/Disable upside down.





*Disable

Enable

12. 2 CODABLOCK A

Reading the following setting code will set the CODABLOCK A barcode Enable/Disable reading.





Fnahle

12.3 CODABLOCK F

Reading the following setting code will set the CODABLOCK F barcode Enable/Disable reading.



*Disable



Enable

12.4 MAXI CODE

Reading the following setting code will set the MAXI CODE barcode Enable/Disable reading.



*Disable



Enable

12.5 HAN XIN

12.5.1 HAN XIN Switch

Reading the following setting code will set the HAN XIN barcode Enable/Disable reading.



*Disable



Enable

12. 5. 2 HAN XIN code ECI control

Reading the following setting code will set whether the HAN XIN code outputs

 ${\sf ECI}$ or not







Enable

12.6 DOTCODE

Read the following setting code, which will set the DOTCODE barcode Enable/Disable reading



*Disable



Enable

13 H Series - Barcode Type Enable/Disable Configuration

The H series supports all the code systems of the M series and adds the code systems listed in this section to the M series

13. 1 POSTAL CODE

13. 1. 1 POSTAL CODESwitch

Reading the following setting code will set the POSTAL CODEEnable/Disable literacy.

[Note] By default, only one type of postal code can be enabled at a time.



13.1.2 Planet code Checksum bit transfer

Read the following setup code, which will set the Planet code checksum-bit Enable/Disable transmission.



13.1.3 USPS Postnet Checksum bit transfer

Reading the following setup code will set the USPS Postnet checksum bit

Enable/Disable transmission.





*Fnahle

13.2 GM

Reading the following setting code will set the GM barcode Enable/Disable reading.





*Disable

Enable

13.3 OCR

13.3.1 OCRS witch

Read the following setting code, which will set the OCR character Enable/Disable reading.

[Note] Only support Chinese ID card recognition





*Disable

Enable

13.3.2 China ID card verification

The following setting code will be read to set the ID verification Enable/Disable



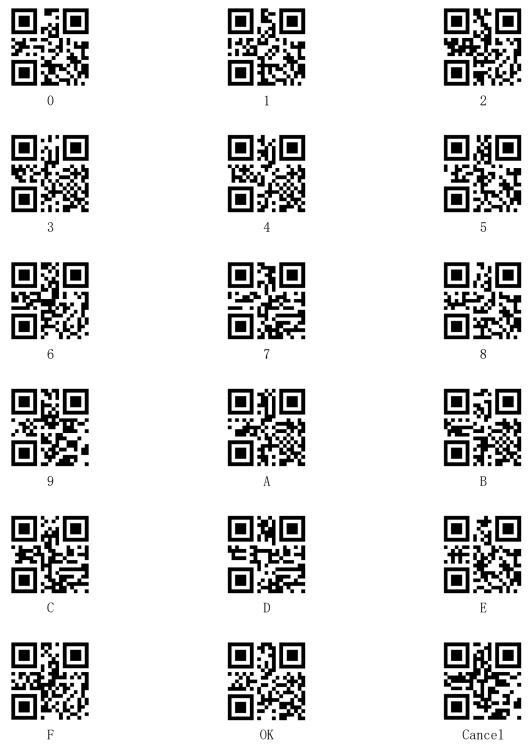


*Disable

Enable

Appendix A: Digital Setup Code

The appendix contains the numbers 0-9; the letters A-F; cancel; and the OK setting code.



Appendix B: CODE ID

Code	Bar Code Type
С	CODE128/EAN/UCC 128/GS1-128
F	CODE39/CODE32
J	CODE11
В	CODABAR
K	CODE93
Е	EAN13/EAN8/ISBN/ISSN
U	UPC-A/UPC-E
Ι	ITF25
D	IND25
S	STD25
M	MATRIX25
N	NEC25/C00P25
P	MSI PLSEEY
T	TELEPEN
A	PHARMACODE ONE-TRACK
W	TRIOPTIC
Н	HONG KONG 2 of 5/CHINA POST
R	GS1 DATABAR/RSS
q	QR/MICRO QR
р	PDF 417/MICRO FDF 417
d	DATA MATRIX/DM
a	AZTEC CODE
h	HAN XIN
m	MAXI CODE
t	DOTCODE
g	GM
0	OCR
k	CODABLOCK A
f	CODABLOCK F
n	POSTAL CODE

Appendix C: AIM ID

Bar Code Type	AIM ID	Description
CODE128/EAN/UCC 128/GS1-128]Cm	0, 1, 2, 4
CODE39] Am	0, 1, 3, 4, 5, 7
CODE32]XO	
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]XO	
NEC25/C00P25]XO	
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]XO	
CODABLOCK A]06	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
	Factory Configuration	>!0016000.>;99
Configuration	Default Configuration	>!0016001.>;99
	Save the current	
	configuration as the default	>!0016010.>;99
	configuration	
Version Information		>!0006000.>;99
Setup Code Switch	Enable	>!0010211.>;99
	Disable	>!0010210.>;99
Setup code data transmission	Enable	>!0010221.>;99
	Disable	>!0010220.>;99
	USB KBW	>!0010061.>;99
Communication Interface	Serial port	>!0010060.>;99
Communication interface	USB COM	>!0010062.>;99
	HID POS	>!0010063.>;99
	United States	>!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
Country World and In	Italy	>!00100B13. >;99
Country Keyboards	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

	United Kingdom	>!00100B27.>;99
	Japan	>!00100B28. >;99
	Standard keyboard	>!00100E0. >;99
Keyboard Type	Virtual Keyboard	>!00100E1.>;99
	Oms	>!00100C0. >;99
	5ms	>!00100C5. >;99
Character transmission	10ms	>!00100C10. >;99
interval	20ms	>!00100C20. >;99
	30ms	>!00100C30. >;99
	50ms	>!00100C50. >;99
	Output function keys	>!0010310. >;99
	Output Ctrl key	
Control character output	combination	>!0010311.>;99
method	Output Alt+number keys	>!0010312.>;99
	Output CR and down keys	\L0010919 \.00
	only	>!0010313.>;99
	600	>!0010071.>;99
	1200	>!0010072.>;99
	2400	>!0010073.>;99
	4800	>!0010074.>;99
David make	9600	>!0010075.>;99
Baud rate	14400	>!0010076.>;99
	19200	>!0010077.>;99
	38400	>!0010078.>;99
	57600	>!0010079.>;99
	115200	>!00100710.>;99
	No validity	>!0010090.>;99
Check digit	Odd number	>!0010091.>;99
	Even number	>!0010092.>;99
Stop bit	1-bit	>!00100A0.>;99
Stop bit	2-bit	>!00100A2.>;99
	5 bit	>!0010080.>;99
Data hita	6 bit	>!0010081.>;99
Data bits	7 bit	>!0010082.>;99
	8 bit	>!0010083.>;99
Handshake	ACK	>!0010381.>;99
Haliushake	NAK	>!0010380.>;99
	Auto	>!00101C0. >;99
	GBK	>!00101C1.>;99
Input character set	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
	Button Hold	>!0010000.>;99
	Single keystroke trigger	>!0010001.>;99
Reading mode	Continuous Mode	>!0010002.>;99
	Induction mode	>!0010003.>;99
	Extra sensitive	>!0010050.>;99
	High sensitivity	>!0010051.>;99
Sensing sensitivity	Medium sensitivity	>!0010058.>;99
	Low sensitivity	>!00100515. >;99
	100ms	>!001004100.>;99
	200ms	>!001004200.>;99
Induction Steady Image	300ms	>!001004300.>;99
Duration	400ms	>!001004400.>;99
	500ms	>!001004500.>;99
	1000ms	>!0010041000.>;99
	Start decode	>!200000.>;99
Command Trigger	Stop decode	>!200001.>;99
Device Reset	Reset	>!200002.>;99
	Oms	>!0010030.>;99
	100ms	>!001003100.>;99
	300ms	>!001003300.>;99
Same code recognition	500ms	>!001003500.>;99
	1000ms	>!0010031000.>;99
	3000ms	>!0010033000.>;99
	Oms (Infinite length)	>!0010010.>;99
	1000ms	>!0010011000.>;99
	2000ms	>!0010012000.>;99
Single scan time	3000ms	>!0010013000.>;99
	5000ms	>!0010015000.>;99
	10000ms	>!00100110000.>;99
	Oms (No interval)	>!0010020.>;99
	500ms	>!001002500.>;99
Length of time between	1000ms	>!0010021000.>;99
scans	2000ms	>!0010022000.>;99
	5000ms	>!0010025000.>;99
	10000ms	>!00100210000.>;99
Power mode	Dormancy	>!0010251.>;99
	持续电源	>!0010250.>;99
	Lighting General	>!0010150.>;99
Lighting	No lighting	>!0010151.>;99
	Lighting is always on	>!0010152.>;99
Aiming	Targeting General	>!0010160.>;99

	No aim	>!0010161.>;99
	Aim for the constant	
	light	>!0010162.>;99
	Active Buzzer	>!0010111.>;99
Honeyware Type	Passive buzzer	>!0010110.>;99
	500Hz	>!001036500. >;99
	1000Hz	>!0010361000.>;99
B	1500Hz	>!0010361500.>;99
Buzzer Frequency	2000Hz	>!0010362000.>;99
	2500Hz	>!0010362500. >;99
	2700Hz	>!0010362700. >;99
	Low	>!00101040.>;99
	Medium	>!00101070.>;99
Volume	High	>!001010100.>;99
	Quiet	>!0010100.>;99
D 0 D	Audible	>!0010120.>;99
Power On Beep	No sound	>!0010121.>;99
0 . 1 1	Audible	>!0010140.>;99
Set code beep	No sound	>!0010141.>;99
D 1: 1	No sound	>!0010130.>;99
Decoding beep	Audible	>!0010131.>;99
	50ms	>!00103750. >;99
	70ms	>!00103770. >;99
December 1 and 1 and 1	100ms	>!001037100.>;99
Decoding beep length	150ms	>!001037150.>;99
	200ms	>!001037200.>;99
	300ms	>!001037300.>;99
Cur light too	Decoding Tips	>!0010170.>;99
Cue light type	Power Tips	>!0010171.>;99
Decoding success light	Open	>!0010181.>;99
Switch	Close	>!0010180.>;99
Decoding success light	Power on long extinguish	>!0010190.>;99
control method	Power on long light	>!0010191.>;99
Deceding status ND output	Output NR	>!0010241.>;99
Decoding status NR output	No output NR	>!0010240.>;99
ATM TD	AddAIM ID	>!00101B1.>;99
AIM ID	Not added AIM ID	>!00101B0.>;99
CODE ID	AddCODE id	>!00101A1.>;99
	Not addedCODE id	>!00101A0.>;99
	No terminator	>!0010200.>;99
Torminator	CRLF	>!0010201.>;99
Terminator	CR	>!0010202.>;99
	TAB	>!0010203.>;99

	Normal output	>!00100D0.>;99
	All Capital letters	>!00100D1.>;99
Letter uppercase and	All lowercase	>!00100D1. >, 99 >!00100D2. >; 99
lowercase conversion		7:00100D2.7,33
	Upper and lower case reversal	>!00100D3.>;99
	Add Prefix	\100101E1 \.00
Prefix	Do not add Prefix	>!00101E1.>;99
E 1 C D C		>!00101E0. >;99
Example of Prefix content	Add PrefixA (hex 41)	>!010800 <u>41</u> .>;99
setting	Add PrefixAB(hex 41 42)	>!010800 <u>414243</u> .>;99
Suffix	Add Suffix	>!00101F1. >;99
	No Suffix added	>!00101F0. >;99
Example of suffix content	Add suffix A (hex 41)	>!010801 <u>41</u> .>;99
setting	Add suffix AB (hex 41 42)	>!010801 <u>414243</u> . >;99
Hide fixed character	EnableHide	>!00102C1.>;99
Switch	DisableHide	>!00102C0.>;99
	Hide character A	>!010802 <u>41</u> . >;99
Example of hidden fixed	Hide line feed function	\L010000 04 \ 00
character content setting	keys	>!010802 <u>0A</u> . >;99
	Disable	>!0010290.>;99
Retain barcode data	Forward Indexing	>!0010291.>;99
according to length	Inverted Phase Index	>!0010292.>;99
	Reserved from the 11th	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Example of starting	position	>!00102A <u>11</u> . >;99
position of reserved data	Reserved from the 100th	\L001004 100 \ 00
	position	>!00102A <u>100</u> . >;99
	11th place end	\L00109 P11 \.00
Example of reserved data	reservation	>!00102B <u>11</u> . >;99
end position	100th place end	\L00100 D100 \.00
	reservation	>!00102B <u>100</u> . >;99
III. I I I I I.	Disable	>!0010260.>;99
Hide barcode data by	Forward Indexing	>!0010261.>;99
length	Inverted Phase Index	>!0010262.>;99
Example of hiding the	11-bit start hiding	>!001027 <u>11</u> .>;99
starting position of data	100-bit start hiding	>!001027 100 . >;99
Example of hidden data end	11-bit End Hide	>!001028 11 . >;99
position	100-bit End Hide	>!001028 <u>100</u> . >;99
Insert custom character	Disableinsertion	>!00102D0. >;99
Switch	Enableinsertion	>!00102D1.>;99
	Insert character A	>!010803 <u>41</u> .>;99
Custom insert data example	Insert character ABC	>!010803 414243 . >;99
Example of insertion	Insert from before the	
position setting	5th bit of data	>!00102E 5. >;99
_	Insert character ABC Insert from before the	-

	Insert from before the	
	20th bit of data	>!00102E 20 . >;99
Character replacement	Disable replacement	>!00102F0. >;99
function Switch	Enable replacement	>!00102F1. >;99
Tune tron Switten	A character is replaced	>!01080441.>;99
Example of replaced	Line feed keys are	7.010001 <u>41</u> .7,33
characters	replaced	>!010804 <u>0A</u> . >;99
	Replace character with B	>!010805 41 . >;99
Example of replacement	Replace character with	7.010000 <u>11</u> .7,00
characters	AC	>!010804 <u>4143</u> . >;99
	Scan the URL code	>!0010330. >;99
Website Switch	Disable Web Code	>!0010331.>;99
	Disable	>!0010340.>;99
Invoicing function Switch	Enable	>!0010341.>;99
	VAT Special Invoice	>!0010350.>;99
Invoice Type	VAT General Invoice	>!0010351.>;99
	EnableOpen GS1 rules	>!0010321.>;99
GS1 RulesSwitch	DisableOpen GS1 rules	>!0010320.>;99
	Disable	>!0005020.>;99
Global Switch	Enable	>!0005021.>;99
	Disable	>!0005000.>;99
1D Global Switch	Enable	>!0005001.>;99
	Disable	>!0005010.>;99
2D Global Switch	Enable	>!0005011.>;99
Global inverse color	Disable	>!0005030.>;99
switch	Enable	>!0005031.>;99
1001	Disable	>!0000150.>;99
128inverse color switch	Enable	>!0000151.>;99
CODDOO: 1	Disable	>!00014B0.>;99
CODE39inverse color	Enable	>!00014B1.>;99
EAN/UPCinverse color	Disable	>!0000560.>;99
switch	Enable	>!0000561.>;99
CODEO3:	Disable	>!0001650.>;99
CODE93inverse color switch	Enable	>!0001651.>;99
CODABARinverse color	Disable	>!0001580.>;99
switch	Enable	>!0001581.>;99
ITEOFinyongo salam amidal	Disable	>!0000B50.>;99
ITF25inverse color switch	Enable	>!0000B51.>;99
CODE 1 20Dors and a series to	Disable	>!0000100.>;99
CODE128Bar code switch	Enable	>!0000101.>;99
CODE128Minimum length	2-bit CODE128	>!000012 2 .>;99
setting example	11-bit CODE128	>!000012 <u>11</u> .>;99
	12-bit CODE128	>!000013 <u>12</u> .>;99

CODE128Example of maximum	20-bit CODE128	>!000013 20. >;99
length setting	20 510 0000120	7.000010 <u>20</u> .7,00
	低	>!0000140. >;99
CODE128Security Level	中	>!0000141.>;99
	高	>!0000142. >;99
GS1-128Bar code switch	Disable	>!0000200. >;99
doi 120bai code switch	Enable	>!0000201.>;99
GS1-128Minimum length	2-bit GS1-128	>!000022 2 . >;99
setting example	11-bit GS1-128	>!000022 <u>11</u> .>;99
GS1-128Example of maximum	12-bit GS1-128	>!000023 <u>12</u> . >;99
length setting	20-bit GS1-128	>!000023 20 . >;99
CODE39 Bar code switch	Disable	>!0001400.>;99
CODE 39 Dai Code Switch	Enable	>!0001401.>;99
CODE39 FULL ASC11Switch	Disable	>!0001440.>;99
CODESS FOLL ASCITSWITCH	Enable	>!0001441.>;99
CODE39 Check Bit	Disable	>!0001410.>;99
Verification	Enable	>!0001411.>;99
CODE39 Checksum bit	Disable	>!0001420.>;99
transfer	Enable	>!0001421.>;99
CODE39 Start/end character	Disable	>!0001430.>;99
transfer	Enable	>!0001431.>;99
CODE39Minimum length	E 1:4 CODE20	\1000145 F \.00
example	5-bit CODE39	>!000145 <u>5</u> . >;99
CODE39Maximum length	19 1:+ CODE20	\L000146 19 \.00
example	12-bit CODE39	>!000146 <u>12</u> .>;99
CODE32Bar code switch	Disable	>!0001470. >;99
CODESZBAI CODE SWITCH	Enable	>!0001471.>;99
CODE32 Prefix	Disable	>!0001480. >;99
CODE 32 Frelix	Enable	>!0001481.>;99
CODE32 Check Bit	Disable	>!0001490. >;99
Verification	Enable	>!0001491.>;99
CODE32 Checksum bit	Disable	>!00014A0.>;99
transfer	Enable	>!00014A1.>;99
DANIO December 1	Disable	>!0000600.>;99
EAN13 Bar code switch	Enable	>!0000601.>;99
EAN13 Checksum bit	Disable	>!0000610.>;99
transfer	Enable	>!0000611.>;99
EAN13+2-digit additional	Disable	>!0000620.>;99
code	Enable	>!0000621.>;99
EAN13+5-digit additional	Disable	>!0000630. >;99
code	Enable	>!0000631.>;99
Read-only with additional	Disable	>!0000640.>;99
	T. Company of the Com	1

	Disable	>!0000500.>;99
EAN8 Bar code switch	Enable	>!0000501.>:99
	Disable	>!0000510.>;99
EAN8Checksum bit transfer	Enable	>!0000511.>;99
EAN8+2-digit additional	Disable	>!0000520.>;99
code	Enable	>!000521.>;99
EAN8+5-digit additional	Disable	>!0000530. >;99
code	Enable	>!000531.>;99
Read-only with additional	Disable	>!0000540.>;99
code EAN8	Enable	>!0000541.>;99
July Marie	Disable	>!0000700.>;99
ISSNBar code switch	Enable	>!0000701.>;99
	Disable	>!0000800.>;99
ISBNBar code switch	Enable	>!0000801.>;99
	Disable	>!0000A00.>;99
UPC-A Bar code switch	Enable	>!0000A01.>;99
	Disable	>!0000A10.>;99
UPC-AChecksum bit transfer	Enable	>!0000A11.>;99
UPC-A+2-digit additional	Disable	>!0000A20.>;99
code	Enable	>!0000A21.>;99
UPC-A + 5-digit additional	Disable	>!0000A30.>;99
code	Enable	>!0000A31.>;99
Read-only with additional	Disable	>!0000A40.>;99
code UPC-A	Enable	>!0000A41.>;99
Transmission system	Disable	>!0000A50.>;99
character	Enable	>!0000A51.>;99
	Disable	>!0000900.>;99
UPC-EBar code switch	Enable	>!0000901.>;99
	Disable	>!0000910.>;99
UPC-EChecksum bit transfer	Enable	>!0000911.>;99
UPC-E + 2-digit additional	Disable	>!0000920. >;99
code	Enable	>!0000921.>;99
UPC-E + 5-digit additional	Disable	>!0000930.>;99
code	Enable	>!0000931.>;99
	Disable	>!0000940.>;99
UPC-E to UPC-A	Enable	>!0000941.>;99
	Disable	>!000960.>;99
UPC-E to UPC-A	Enable	>!000961.>;99
Transmission system	Disable	>!000950.>;99
character0	Enable	>!0000951.>;99
	Disable	>!0000970.>;99
UPC-E1Bar code switch	Enable	>!000971.>;99
CODE93 Bar code switch	Disable	>!0001600.>;99

CODE93Minimum length example		Enable	>!0001601.>;99
CODE93Maximum length example 12-bitCODE93 2100016412 >;99	_	5-bitCODE93	>!000163 <u>5</u> . >;99
Disable	CODE93Maximum length	12-bitCODE93	>!000164 <u>12</u> . >;99
Enable 10001510.>;99		Disable	>!0001500.>;99
Verification	CODABAR Bar code switch	Enable	>!0001501.>;99
Disable Dis	CODABARCheck Bit	Disable	>!0001510.>;99
Enable	Verification	Enable	>!0001511.>;99
Disable Dis	CODABARChecksum bit	Disable	>!0001520.>;99
Enable	transfer	Enable	>!0001521.>;99
ABCD/TN*E Format	CODABARStart/end character	Disable	>!0001530.>;99
Common ABCD format \$10001540.>;99	transfer	Enable	>!0001531.>;99
CODABAR 起始/Case Lowercase \$\text{\$\text{\$\congrue{1}}}\$ (Capital letters \$\text{\$\congrue{1}}\$ (2001551.);99	CODABARStart/end character	ABCD/TN*E Format	>!0001541.>;99
CODABARMinimum length example S-bit CODABAR S!0001555.>;99	format	Common ABCD format	>!0001540.>;99
CODABARMinimum length example 5-bit CODABAR >!0001565.>;99 CODABARMaximum length example 12-bit CODABAR >!00015712.>;99 ITF25 Bar code switch Disable >!0000B00.>;99 Enable >!0000B10.>;99 ITF25Check Bit Disable >!0000B10.>;99 Verification Enable >!0000B11.>;99 ITF25Checksum bit transfer Enable >!0000B20.>;99 ITF25Minimum length 5-bit ITF25 >!0000B21.>;99 ITF25Maximum length 5-bit ITF25 >!0000B35.>;99 MATRIX25 Bar code switch Disable >!0001100.>;99 MATRIX25Check Bit Disable >!0001100.>;99 Werification Enable >!0001101.>;99 MATRIX25Checksum bit Disable >!0001110.>;99 Warringter Enable >!0001120.>;99 MATRIX25Minimum length 5-bit MATRIX25 >!0001135.>;99 MATRIX25Maximum length 2-bit MATRIX25 >!00011412.>;99 MATRIX25Maximum length 2-bit MATRIX25 >!00011412.>;99	CODABAR 起始/Case	Lowercase	>!0001551.>;99
S-bit CODABAR S1000156 <u>b.</u> S199	sensitive terminator	Capital letters	>!0001550.>;99
CODABARMaximum length example 12-bit CODABAR >100015712.>;99	CODABARMinimum length	F 1:4 CODADAD	\1000156 F \ 00
TF25 Bar code switch	example	5-bit CODABAR	>!000156 <u>5</u> . >;99
Disable Semble	CODABARMaximum length	10 L:+ CODADAD	100015710 \.00
Enable	example	12-bit Codabak	>:000157 <u>12</u> . >;99
Enable \$\cdot \cdot	ITF25 Bar code switch	Disable	
Disable Disa	Til 20 Bar 00d0 Switten	Enable	>!0000B01.>;99
Disable >!0000B20.>;99	ITF25Check Bit	Disable	>!0000B10. >;99
TF25Checksum bit transfer	Verification	Enable	>!0000B11. >;99
Enable \$!0000B21.>;99	ITE25Chacksum hit transfer	Disable	>!0000B20. >;99
STD25 Bar code switch S-bit ITF25 S!0000B35.>;99	TITZ5CHecksum bit transfer	Enable	>!0000B21.>;99
MATRIX25 Bar code switch Disable >!0001100.>;99	_	5-bit ITF25	>!0000B3 <u>5</u> . >;99
MATRIX25 Bar code switch Enable >!0001101.>;99 MATRIX25Check Bit Disable >!0001110.>;99 Verification Enable >!0001111.>;99 MATRIX25Checksum bit Disable >!0001120.>;99 transfer Enable >!0001121.>;99 MATRIX25Minimum length 5-bit MATRIX25 >!0001135.>;99 MATRIX25Maximum length 12-bit MATRIX25 >!00011412.>;99 STD25 Bar code switch Disable >!0001300.>;99	_	12-bit ITF25	>!0000B4 <u>12</u> .>;99
MATRIX25Check Bit Disable >!0001110.>;99 Verification Enable >!0001110.>;99 MATRIX25Checksum bit Disable >!0001120.>;99 transfer Enable >!0001121.>;99 MATRIX25Minimum length example 5-bit MATRIX25 >!0001135.>;99 MATRIX25Maximum length example 12-bit MATRIX25 >!00011412.>;99 STD25 Bar code switch Disable >!0001300.>;99	MARDINGS D. 11	Disable	>!0001100.>;99
Verification Enable >!0001111.>;99 MATRIX25Checksum bit transfer Disable >!0001120.>;99 transfer Enable >!0001121.>;99 MATRIX25Minimum length example 5-bit MATRIX25 >!0001135.>;99 MATRIX25Maximum length example 12-bit MATRIX25 >!00011412.>;99 STD25 Bar code switch Disable >!0001300.>;99	MAIRIX25 Bar code switch	Enable	>!0001101.>;99
MATRIX25Checksum bit transfer Disable >!0001120.>;99 transfer Enable >!0001121.>;99 MATRIX25Minimum length example 5-bit MATRIX25 >!0001135.>;99 MATRIX25Maximum length example 12-bit MATRIX25 >!00011412.>;99 STD25 Bar code switch Disable >!0001300.>;99	MATRIX25Check Bit	Disable	>!0001110.>;99
transfer Enable >!0001121.>;99 MATRIX25Minimum length example 5-bit MATRIX25 >!0001135.>;99 MATRIX25Maximum length example 12-bit MATRIX25 >!00011412.>;99 STD25 Bar code switch Disable >!0001300.>;99	Verification	Enable	>!0001111.>;99
MATRIX25Minimum length example 5-bit MATRIX25 >!0001135.>;99 MATRIX25Maximum length example 12-bit MATRIX25 >!00011412.>;99 STD25 Bar code switch Disable >!0001300.>;99	MATRIX25Checksum bit	Disable	>!0001120.>;99
example 5-bit MATRIX25 >:0001135.>;99 MATRIX25Maximum length example 12-bit MATRIX25 >:00011412.>;99 STD25 Bar code switch Disable >:0001300.>;99	transfer	Enable	>!0001121.>;99
MATRIX25Maximum length example 12-bit MATRIX25 >:00011412.>;99 STD25 Bar code switch >:0001300.>;99		5-bit MATRIX25	>!000113 <u>5</u> . >;99
STD25 Bar code switch Disable >!0001300.>;99	MATRIX25Maximum length	12-bit MATRIX25	>!000114 <u>12</u> .>;99
STD25 Bar code switch	-	Disable	>!0001300. >:99
	STD25 Bar code switch	Enable	>!0001301.>;99

STD25Minimum length		
	5-bit STD25	>!000133 <u>5</u> .>;99
example		
STD25Maximum length	12-bit STD25	>!000134 <u>12</u> . >;99
example	Disable	\10001200 \.00
IND25 Bar code switch		>!0001200. >;99
INDOEM:	Enable	>!0001201.>;99
IND25Minimum length	5-bit IND25	>!000123 <u>5</u> . >;99
example		
IND25Maximum length	12-bit IND25	>!000124 <u>12</u> . >;99
example	D:11.	\10001000 \.00
NEC25 Bar code switch	Disable	>!0001000.>;99
NDG05GL L D1	Enable	>!0001001.>;99
NEC25Check Bit	Disable	>!0001010. >;99
Verification	Enable	>!0001011.>;99
NEC25Checksum bit transfer	Disable	>!0001020.>;99
	Enable	>!0001021.>;99
NEC25Minimum length	5-bit NEC25	>!000103 5. >;99
example	O DIC NEOZO	7.000100 <u>0</u> .7,00
NEC25Maximum length	12-bit NEC25	>!000104 12. >;99
example	12 DIT NEC25	7:000104 <u>12</u> . 7,99
HK25/ChinaPost/Datalogic25	Disable	>!0001F90.>;99
Bar code switch	Enable	>!0001F91.>;99
CODE 11 D 1 1 1 1	Disable	>!0001700.>;99
CODE11 Bar code switch	Enable	>!0001710.>;99
CORPLIAN I DI	No calibration	>!0001710.>;99
CODE11Check Bit	1-bit checksum	>!0001711.>;99
Verification	2-bit checksum	>!0001712.>;99
CODE11Checksum bit	Disable	>!0001720. >;99
transfer	Enable	>!0001721.>;99
CODE11Minimum length		
example	5-bit CODE11	>!000173 <u>5</u> . >;99
CODE11Maximum length		
example	12-bit CODE11	>!000174 <u>12</u> .>;99
-	Disable	>!0001900.>;99
MSI PLSEEY Bar code switch	Enable	>!0001901.>;99
	MOD10 Single character	
	checksum	>!0001911.>;99
MSI PLESSYCheck Bit	MOD10/MOD10 Double	
Verification	character checksum	>!0001912.>;99
	MOD10/MOD11 Double	+
	character checksum	>!0001913. >;99
MSI PLESSYChecksum bit	Disable	>!0001921.>;99
transfer	Enable	>!0001921. > ;99
LITAUSTEL	і пларте	/:UUU194U, /;99

MSIPLESSYMinimum length			
example	5-bit MSIPLESSY	>!000193 <u>5</u> .>;99	
MSIPLESSYMaximum length		>!000194 <u>12</u> .>;99	
example	12-bit MSIPLESSY		
WDI DDDN G 1	Disable	>!0001B90.>;99	
TELEPEN Switch	Enable	>!0001B91.>;99	
PHARMACODE ONE-TRACK	Disable	>!0001C00.>;99	
Switch	Enable	>!0001C01.>;99	
D 1 11	Horizontal	>!0001C10.>;99	
Bar code direction	Vertical	>!0001C11.>;99	
Data reversal	Disable	>!0001C20.>;99	
	Enable	>!0001C21.>;99	
TENTOPTIC C. 1. C. 1. 1	Disable	>!0001C90.>;99	
TRIOPTIC Code Switch	Enable	>!0001C91.>;99	
Brazilian bank codeBar	Disable	>!0000B60.>;99	
code switch	Enable	>!0000B61.>;99	
	Disable	>!0003100.>;99	
QR Bar code switch	Enable	>!0003101.>;99	
	Read only positive	>!0003120.>;99	
opp.	Read only reverse	>!0003121.>;99	
QRForward and reverse	Read only reverseBoth		
identification	forward and reverse	>!0003122.>;99	
	directions		
ODM:	Disable	>!0003140.>;99	
QRMirror recognition	Enable	>!0003141.>;99	
DIFF. 1 1	Disable	>!0003200.>;99	
DMBar code switch	Enable	>!0003201.>;99	
	Read only positive	>!0003220.>;99	
DMC 1 1	Read only reverse	>!0003221.>;99	
DMForward and reverse	Read only reverseBoth		
identification	forward and reverse	>!0003222.>;99	
	directions		
DMM:i+i	Disable	>!0003240.>;99	
DMMirror recognition	Enable	>!0003241.>;99	
DDD417D 1 '4 1	Disable	>!0003000.>;99	
PDF417Bar code switch	Enable	>!0003001.>;99	
	Read only positive	>!0003020.>;99	
PDF417Forward and reverse	Read only reverseBoth		
identification	forward and reverse	>!0003022.>;99	
	directions		
AMBO CODED	Disable	>!0003400.>;99	
AZTEC CODEBar code switch	Enable	>!0003401.>;99	
	Disable	>!0001A00. >;99	

GS1 DATABAR Bar code switch	Enable	>!0001A01.>;99
COMPSITEBar code switch	Disable	>!0001B00.>;99
	Enable	>!0001B01.>;99
HAN XIN Bar code switch	Disable	>!0003500.>;99
	Enable	>!0003501.>;99
HAN WIN O I POT C	No ECI output	>!0003530.>;99
HAN XIN Code ECI Control	Output ECI	>!0003531.>;99
MAYI CODE Day and amidal	Disable	>!0003300.>;99
MAXI CODE Bar code switch	Enable	>!0003301.>;99
DOTCODE Day and amidab	Disable	>!0003700.>;99
DOTCODE Bar code switch	Enable	>!0003701.>;99
CODADI OCK ADam and and the	Disable	>!0001D00.>;99
CODABLOCK ABar code switch	Enable	>!0001D01.>;99
CODADI OCK EDan and amitab	Disable	>!0001D90.>;99
CODABLOCK FBar code switch	Enable	>!0001D91.>;99
CN and Day and smitch	Disable	>!0003600.>;99
GM code Bar code switch	Enable	>!0003601.>;99
	Disable	>!0001E00.>;99
	Australian	>!0001E01.>;99
	Royal Mail (RM4CSS)	>!0001E02.>;99
POSTAL CODEBar code switch	Intelligent Mail Bar	>!0001E05.>;99
FOSTAL CODEDAT COde SWITCH	Japanese Post	>!0001E06.>;99
	KIX Post	>!0001E07.>;99
	Planet code	>!0001E08.>;99
	USPS Postnet	>!0001E09.>;99
Planet codeChecksum bit Disable		>!0001E10.>;99
transfer	Enable	>!0001E11.>;99
Planet codeChecksum bit	Disable	>!0001E20.>;99
transfer	Enable	>!0001E21.>;99
OCR Switch	Disable	>!0003800.>;99
	Enable	>!0003801.>;99
China ID card verification	Disable	>!0003810.>;99
	Enable	>!0003811.>;99

Appendix E: ASCII Code Cross Reference Table

Hexadecimal	Keyboard function	Keyboard CTRL key combination operation
Hexadecillai	key operation	Reyboard CIRL key combination operation
00h	Nu11	CTRL 2
01h	Keypad Enter	CTRL A
02h	Caps lock	CTRL B
03h	Right Arrow	CTRL C
04h	Up Arrow	CTRL D
05h	Nu11	CTRL E
06h	Nu11	CTRL F
07h	Enter	CTRL G
08h	Left Arrow	CTRL H
09h	Horizontal Tab	CTRL I
OAh	Down Arrow	CTRL J
0Bh	Vertical Tab	CTRL K
0Ch	Backspace	CTRL L
ODh	Enter	CTRL M
0Eh	Insert	CTRL N
0Fh	Esc	CTRL 0
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	6	
23h	#	
24h	\$	
25h	%	
26h	&	

27h	•
28h	
29h	
2Ah	*
2Bh	+
2Ch	,
2Dh	_
2Eh	•
2Fh	/
30h	0
31h	
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	В
43h	С
44h	D
45h	Е
46h	F
47h	G
48h	Н
49h	I
4Ah	J
4Bh	K
4Ch	L
4Dh	M
4Eh	N
4Fh	0
50h	P
51h	Q

52h R 53h S 54h T 55h U 56h V	
54h T 55h U	
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 1	
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	Undefined

Appendix F: Barcode Types

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	OAh
ITF25	OBh
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