User Guide

A5 Desktop User Manual

Version: V1.1.4

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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.

*United States

Belgium

Brazil

Canada

Czech

Denmark

Finland

France

Austria, Germany

Greece

Hungary

Israel


Italy


Latin America


Netherlands


Norway


Poland


Portugal


Romania


Russia


Slovakia


Spain


Sweden


Switzerland


Turkey F


Turkish Q


United Kingdom


Japan

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.

*Standard keyboard

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 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

OK

2.1.5 Character transfer interval quick setting

0ms

*5ms

10ms

20ms

30ms

50ms

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 Appendix E for details of the function.

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

* Output function keys

Output CTRL key combination

Output ALT+number keys

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.


600


1200


2400


4800


9600


14400


19200


38400


57600


*115200

2.3.2 Check digit


*No checksum


Odd number


Even number

2.3.3 Stop bit


*1 position


2 positions

2.3.4 Data bits

5 places

6 places

7 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".

*Automatic

GBK

UTF8

ASCII

Japanese

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".

*Original format

GBK

UTF8

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 auto-sensing 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


100ms


200ms


*300ms


400ms


500ms


1000ms

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

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

0ms (Unlimited time)

1000ms

2000ms

3000ms

*5000ms

10000ms

4.4 Same code recognition

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.

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

OK

4.4.2 Same code reading interval fast setting

*0ms

100ms

300ms

500ms

1000ms

3000ms

4.5 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

OK

4.5.2 Quickly set the length of time between scans

0ms

*500ms

1000ms

2000ms

5000ms

10000ms

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

Disable

*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

OK

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

*Decoding Indicator

Power Indicator

6.2.2 Decoding success indicator light

Disable

*Enable

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

7 Data Editing

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 "]C0". ID is "]C0". Users can use AIM ID to identify different barcode types.

*Disable

Enable

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

CR LF

*CR


TAB


CR CR

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: >!010800**XX**. 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 Appendix E character cross-reference table, hex for 41, then set the code content: >!010800**41**.

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

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 appendix E 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.

OK

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".

*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 Appendix E character cross-reference table, hexadecimal 41, then set the code content: >!01080141.

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 appendix E character comparison table, hexadecimal for 41, then scan 4 and 1 respectively

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

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

OK

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".

*Disable

Enable

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 Appendix F, the hex value of CODE128 is 01, check Appendix E character comparison table, character A B C hexadecimal is 41 42 43 respectively, then the setting code content is: >!01080601414243.

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 "digital setting code" 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

OK

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: >!010808XX. where XX is the setting variable, 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 Appendix F, then the content of the setting code is: >!01080801.

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 Appendix F 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.

OK

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: >!010807XXXX. 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 suffix.

For example: you need to set CODE128 barcode suffix 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 >!010807**0141**.

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

Method 2:

a) Scan the "Suffix Settings" setting code

Suffix Settings

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

For example: you need to set the suffix for CODE128, according to the barcode type in Appendix F, 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 Appendix E 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

OK

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 Appendix F, then the content of the setting code is: >!01080901.

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

OK

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: >!010802XX. where XX is the setting variable, 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 Appendix E, the hexadecimal is 41, then the setting code content is: >!01080241.

For example, if you need to set the hidden character ABC, check the character comparison table of Appendix E, 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 appendix E character comparison table, the hexadecimal is 41, then scan 4 and 1 respectively

For example, if you need to hide line break, check Appendix E character comparison table, hexadecimal is 0A, then scan 0 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

*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)

7.8.2 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: >!00102A**XX**. 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: >!00102A**11**.

Method 2:

a) Scan the "start position" setting code

Starting position

b) Scan the "number setting code", 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

OK

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: >!00102B50.

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

OK

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

*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)

7.9.2 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: >!001027XX. where XX 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 "number setting code", 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

OK

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: >!001028XX. 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: >!00102850.

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 11th digit, scan 1,1.

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

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

OK

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: >!01080AXXXX. Where XXXX is the setting variable, the first two XX indicate the barcode type, the relevant hexadecimal value can be found according to Appendix F 附录 F, and the latter 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: >!01080A010B.

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 "numeric setting code" 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**XXXX**. where **XXXX** is the setting variable, the first two **XX** indicate the barcode type, the relevant hexadecimal value can be found according to Appendix F, the latter **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 Appendix F, 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 "numeric setting code" 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 0B, scan 0, B; 100th digit, hex 64, scan 6, 4.

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

OK

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

*Disable

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**XX**. Where **XX** is the setting variable, **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 Appendix E character cross-reference table, hexadecimal is 41, then the setting code content is: >!010803**41**.

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

Method 2:

a) Scan the "Custom Data" setup code

Customized Data

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

For example: need to insert custom data A, check the appendix E character cross-reference table, hexadecimal for 41, then scan 4 and 1, respectively

For example: need to insert custom data ABC, check Appendix E 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

OK

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: >!00102E**XX**. 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: >!00102E**11**.

Method 2:

a) Scan the "Insert Location" setting code

Insert Position

b) Scan the "numeric setting code", 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

*Disable

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**XX**. where **XX** is the setting variable, **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: the replaced character A, check Appendix E character cross-reference table, hexadecimal is 41, then the set code content is: >!01080441.

For example: the replaced character ABC, check the appendix E 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 appendix E character comparison table, hexadecimal 41, then scan 4 and 1, respectively

For example: the replaced character Line Feed, check the Appendix E character cross-reference table, hexadecimal 0A, then scan 0 and A, respectively

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

OK

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: >!010805XX. Where XX is the setting variable, 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 Appendix E character comparison table, hexadecimal is 41, then the set code content is: >!01080541.

For example: character ABC replace the original data, check Appendix E character comparison table, hexadecimal 414243, then set the code content: >!010805414243.

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 Appendix E character comparison table, hexadecimal 41, then scan 4 and 1, respectively

For example: character line feed replaces the original data, check Appendix E character cross-reference table, hexadecimal 0A, then scan 0 and A, respectively

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

OK

7.13 Line feed to carriage return

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

*Disable

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

*Special ticket

General Ticket

7.16 GS1 Rule Enable

Enables the GS1 rule to enclose AI segments in parentheses.

*Disable

Enable

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

*Disable

Enable

10.5.2 Read multiple codes

*1pc

2pc

3pc

4pc

5pc

6pc

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.

*Disable

Enable

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

*Disable

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

*Disable

Enable

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.

Disable

*Enable

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: >!0000122.

For example, if the minimum length of CODE128 is set to 12, then the code content is: >!0000112.

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

OK

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: >!000012**9**.

For example, if the maximum length of CODE128 is set to 20, then the code content is: >!000012**20**.

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


*Low


Medium


High

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

OK

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

OK

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.

Disable

*Enable

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

Enable

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.

Disable

*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

Disable

*Enable

11.8.2 UPC-A parity bit transfer

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

Disable

*Enable

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.

*Disable

Enable

11.8.6 Transmission system character "0"

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

Disable

*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

Enable

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.


*Disable


Enable

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


*Disable


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: >!0000B3XX. where 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

OK

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: >!0000B4XX. where 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

*Disable

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: >!000103XX. Where 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

OK

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: >!000104XX. Where 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: >!000114XX. where 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.

*Disable

Enable

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: >!000123XX. where 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: >!000124XX. where 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

OK

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: >!000133XX. Where 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

OK

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: >!000134XX. where 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: >!000134920.

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

OK

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: >!0001452.

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

OK

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: >!0001469.

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

OK

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: >!000156<u>12</u>.

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

OK

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: >!000157<u>XX</u>. where <u>XX</u> 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

OK

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: >!0001632.

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

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

OK

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: >!000164XX. where 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.

*Disable

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: >!000173XX. where XX is the setting variable, decimal range 0-255.

For example, if CODE11 minimum length is set to 2, then the code content is: >!000173<u>2</u>.

For example, if CODE11 minimum length is set to 12, then the code content is: >!000173<u>12</u>.

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

OK

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: >!000174<u>XX</u>. where <u>XX</u> is the setting variable, decimal range 0-255.

For example, if CODE11 maximum length is set to 9, then the code content is: >!000174<u>9</u>.

For example: CODE11 maximum length is set to 20, then the set code content is: >!000174<u>20</u>.

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

OK

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: >!000193XX. where 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

OK

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: >!000194XX. where XX 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: >!0001949.

For example, if the maximum length of MSI PLSEEY is set to 20, then the set code content is: >!00019420.

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

OK

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


Enable

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

*Enable

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.

*Disable

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

Enable

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.

*Disable

Enable

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

ECI or not

*Disable

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.

*Disable

Australian

Royal Mail（RM4CSS）

Intelligent Mail Bar

Japanese Post

KIX Post

Planet code

USPS Postnet

13.1.2 Planet code Checksum bit transfer

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

Disable

*Enable

13.1.3 USPS Postnet Checksum bit transfer

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

Enable/Disable transmission.

Disable

*Enable

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.


0


1


2


3


4


5


6


7


8


9


A


B


C


D


E


F


OK


Cancel

Appendix B: CODE ID

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

Appendix C: AIM ID

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

Appendix D: Instruction Set

Parameter Name		Instruction Set
Configuration	Factory Configuration	>!0016000.>;99
	Default Configuration	>!0016001.>;99
	Save the current configuration as the default configuration	>!0016010.>;99
Version Information		>!0006000.>;99
Setup Code Switch	Enable	>!0010211.>;99
	Disable	>!0010210.>;99
Setup code data transmission	Enable	>!0010221.>;99
	Disable	>!0010220.>;99
Communication Interface	USB KBW	>!0010061.>;99
	Serial port	>!0010060.>;99
	USB COM	>!0010062.>;99
	HID POS	>!0010063.>;99
Country Keyboards	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
	Italy	>!00100B13.>;99
	Latin America	>!00100B14.>;99
	Netherlands	>!00100B15.>;99
	Norway	>!00100B16.>;99
	Poland	>!00100B17.>;99
	Portugal	>!00100B18.>;99
	Romania	>!00100B19.>;99
	Russia	>!00100B20.>;99
	Slovakia	>!00100B21.>;99
	Spain	>!00100B22.>;99
	Sweden	>!00100B23.>;99
	Switzerland	>!00100B24.>;99
	Turkey F	>!00100B25.>;99
	Turkey Q	>!00100B26.>;99

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

	GBK	>!00101D1.>;99
	UTF-8	>!00101D2.>;99
Reading mode	Button Hold	>!0010000.>;99
	Single keystroke trigger	>!0010001.>;99
	Continuous Mode	>!0010002.>;99
	Induction mode	>!0010003.>;99
Sensing sensitivity	Extra sensitive	>!0010050.>;99
	High sensitivity	>!0010051.>;99
	Medium sensitivity	>!0010058.>;99
	Low sensitivity	>!00100515.>;99
Induction Steady Image Duration	100ms	>!001004100.>;99
	200ms	>!001004200.>;99
	300ms	>!001004300.>;99
	400ms	>!001004400.>;99
	500ms	>!001004500.>;99
	1000ms	>!0010041000.>;99
Command Trigger	Start decode	>!200000.>;99
	Stop decode	>!200001.>;99
Device Reset	Reset	>!200002.>;99
Same code recognition	0ms	>!0010030.>;99
	100ms	>!001003100.>;99
	300ms	>!001003300.>;99
	500ms	>!001003500.>;99
	1000ms	>!0010031000.>;99
	3000ms	>!0010033000.>;99
Single scan time	0ms（Infinite length）	>!0010010.>;99
	1000ms	>!0010011000.>;99
	2000ms	>!0010012000.>;99
	3000ms	>!0010013000.>;99
	5000ms	>!0010015000.>;99
	10000ms	>!00100110000.>;99
Length of time between scans	0ms（No interval）	>!0010020.>;99
	500ms	>!001002500.>;99
	1000ms	>!0010021000.>;99
	2000ms	>!0010022000.>;99
	5000ms	>!0010025000.>;99
	10000ms	>!00100210000.>;99
Power mode	Dormancy	>!0010251.>;99
	持续电源	>!0010250.>;99
Lighting	Lighting General	>!0010150.>;99
	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
Honeyware Type	Active Buzzer	>!0010111.>;99
	Passive buzzer	>!0010110.>;99
Buzzer Frequency	500Hz	>!001036500.>;99
	1000Hz	>!0010361000.>;99
	1500Hz	>!0010361500.>;99
	2000Hz	>!0010362000.>;99
	2500Hz	>!0010362500.>;99
	2700Hz	>!0010362700.>;99
Volume	Low	>!00101040.>;99
	Medium	>!00101070.>;99
	High	>!001010100.>;99
	Quiet	>!0010100.>;99
Power On Beep	Audible	>!0010120.>;99
	No sound	>!0010121.>;99
Set code beep	Audible	>!0010140.>;99
	No sound	>!0010141.>;99
Decoding beep	No sound	>!0010130.>;99
	Audible	>!0010131.>;99
Decoding beep length	50ms	>!00103750.>;99
	70ms	>!00103770.>;99
	100ms	>!001037100.>;99
	150ms	>!001037150.>;99
	200ms	>!001037200.>;99
	300ms	>!001037300.>;99
Cue light type	Decoding Tips	>!0010170.>;99
	Power Tips	>!0010171.>;99
Decoding success light Switch	Open	>!0010181.>;99
	Close	>!0010180.>;99
Decoding success light control method	Power on long extinguish	>!0010190.>;99
	Power on long light	>!0010191.>;99
Decoding status NR output	Output NR	>!0010241.>;99
	No output NR	>!0010240.>;99
AIM ID	AddAIM ID	>!00101B1.>;99
	Not added AIM ID	>!00101B0.>;99
CODE ID	AddCODE id	>!00101A1.>;99
	Not addedCODE id	>!00101A0.>;99
Terminator	No terminator	>!0010200.>;99
	CRLF	>!0010201.>;99
	CR	>!0010202.>;99
	TAB	>!0010203.>;99

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

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

CODE128Example of maximum length setting	20-bit CODE128	>!000013**20**.>;99
CODE128Security Level	低	>!0000140.>;99
	中	>!0000141.>;99
	高	>!0000142.>;99
GS1-128Bar code switch	Disable	>!0000200.>;99
	Enable	>!0000201.>;99
GS1-128Minimum length setting example	2-bit GS1-128	>!000022**2**.>;99
	11-bit GS1-128	>!000022**11**.>;99
GS1-128Example of maximum length setting	12-bit GS1-128	>!000023**12**.>;99
	20-bit GS1-128	>!000023**20**.>;99
CODE39 Bar code switch	Disable	>!0001400.>;99
	Enable	>!0001401.>;99
CODE39 FULL ASCllSwitch	Disable	>!0001440.>;99
	Enable	>!0001441.>;99
CODE39 Check Bit Verification	Disable	>!0001410.>;99
	Enable	>!0001411.>;99
CODE39 Checksum bit transfer	Disable	>!0001420.>;99
	Enable	>!0001421.>;99
CODE39 Start/end character transfer	Disable	>!0001430.>;99
	Enable	>!0001431.>;99
CODE39Minimum length example	5-bit CODE39	>!000145**5**.>;99
CODE39Maximum length example	12-bit CODE39	>!000146**12**.>;99
CODE32Bar code switch	Disable	>!0001470.>;99
	Enable	>!0001471.>;99
CODE32 Prefix	Disable	>!0001480.>;99
	Enable	>!0001481.>;99
CODE32 Check Bit Verification	Disable	>!0001490.>;99
	Enable	>!0001491.>;99
CODE32 Checksum bit transfer	Disable	>!00014A0.>;99
	Enable	>!00014A1.>;99
EAN13 Bar code switch	Disable	>!0000600.>;99
	Enable	>!0000601.>;99
EAN13 Checksum bit transfer	Disable	>!0000610.>;99
	Enable	>!0000611.>;99
EAN13+2-digit additional code	Disable	>!0000620.>;99
	Enable	>!0000621.>;99
EAN13+5-digit additional code	Disable	>!0000630.>;99
	Enable	>!0000631.>;99
Read-only with additional code EAN13	Disable	>!0000640.>;99
	Enable	>!0000641.>;99

EAN8 Bar code switch	Disable	>!0000500.>;99
	Enable	>!0000501.>;99
EAN8Checksum bit transfer	Disable	>!0000510.>;99
	Enable	>!0000511.>;99
EAN8+2-digit additional code	Disable	>!0000520.>;99
	Enable	>!0000521.>;99
EAN8+5-digit additional code	Disable	>!0000530.>;99
	Enable	>!0000531.>;99
Read-only with additional code EAN8	Disable	>!0000540.>;99
	Enable	>!0000541.>;99
ISSNBar code switch	Disable	>!0000700.>;99
	Enable	>!0000701.>;99
ISBNBar code switch	Disable	>!0000800.>;99
	Enable	>!0000801.>;99
UPC-A Bar code switch	Disable	>!0000A00.>;99
	Enable	>!0000A01.>;99
UPC-AChecksum bit transfer	Disable	>!0000A10.>;99
	Enable	>!0000A11.>;99
UPC-A+2-digit additional code	Disable	>!0000A20.>;99
	Enable	>!0000A21.>;99
UPC-A + 5-digit additional code	Disable	>!0000A30.>;99
	Enable	>!0000A31.>;99
Read-only with additional code UPC-A	Disable	>!0000A40.>;99
	Enable	>!0000A41.>;99
Transmission system character	Disable	>!0000A50.>;99
	Enable	>!0000A51.>;99
UPC-EBar code switch	Disable	>!0000900.>;99
	Enable	>!0000901.>;99
UPC-EChecksum bit transfer	Disable	>!0000910.>;99
	Enable	>!0000911.>;99
UPC-E + 2-digit additional code	Disable	>!0000920.>;99
	Enable	>!0000921.>;99
UPC-E + 5-digit additional code	Disable	>!0000930.>;99
	Enable	>!0000931.>;99
UPC-E to UPC-A	Disable	>!0000940.>;99
	Enable	>!0000941.>;99
UPC-E to UPC-A	Disable	>!0000960.>;99
	Enable	>!0000961.>;99
Transmission system character0	Disable	>!0000950.>;99
	Enable	>!0000951.>;99
UPC-E1Bar code switch	Disable	>!0000970.>;99
	Enable	>!0000971.>;99
CODE93 Bar code switch	Disable	>!0001600.>;99

	Enable	>!0001601.>;99
CODE93Minimum length example	5-bitCODE93	>!000163**5**.>;99
CODE93Maximum length example	12-bitCODE93	>!000164**12**.>;99
CODABAR Bar code switch	Disable	>!0001500.>;99
	Enable	>!0001501.>;99
CODABARCheck Bit Verification	Disable	>!0001510.>;99
	Enable	>!0001511.>;99
CODABARChecksum bit transfer	Disable	>!0001520.>;99
	Enable	>!0001521.>;99
CODABARStart/end character transfer	Disable	>!0001530.>;99
	Enable	>!0001531.>;99
CODABARStart/end character format	ABCD/TN*E Format	>!0001541.>;99
	Common ABCD format	>!0001540.>;99
CODABAR 起始/Case sensitive terminator	Lowercase	>!0001551.>;99
	Capital letters	>!0001550.>;99
CODABARMinimum length example	5-bit CODABAR	>!000156**5**.>;99
CODABARMaximum length example	12-bit CODABAR	>!000157**12**.>;99
ITF25 Bar code switch	Disable	>!0000B00.>;99
	Enable	>!0000B01.>;99
ITF25Check Bit Verification	Disable	>!0000B10.>;99
	Enable	>!0000B11.>;99
ITF25Checksum bit transfer	Disable	>!0000B20.>;99
	Enable	>!0000B21.>;99
ITF25Minimum length example	5-bit ITF25	>!0000B3**5**.>;99
ITF25Maximum length example	12-bit ITF25	>!0000B4**12**.>;99
MATRIX25 Bar code switch	Disable	>!0001100.>;99
	Enable	>!0001101.>;99
MATRIX25Check Bit Verification	Disable	>!0001110.>;99
	Enable	>!0001111.>;99
MATRIX25Checksum bit transfer	Disable	>!0001120.>;99
	Enable	>!0001121.>;99
MATRIX25Minimum length example	5-bit MATRIX25	>!000113**5**.>;99
MATRIX25Maximum length example	12-bit MATRIX25	>!000114**12**.>;99
STD25 Bar code switch	Disable	>!0001300.>;99
	Enable	>!0001301.>;99

STD25Minimum length example	5-bit STD25	>!000133**5**.>;99
STD25Maximum length example	12-bit STD25	>!000134**12**.>;99
IND25 Bar code switch	Disable	>!0001200.>;99
	Enable	>!0001201.>;99
IND25Minimum length example	5-bit IND25	>!000123**5**.>;99
IND25Maximum length example	12-bit IND25	>!000124**12**.>;99
NEC25 Bar code switch	Disable	>!0001000.>;99
	Enable	>!0001001.>;99
NEC25Check Bit Verification	Disable	>!0001010.>;99
	Enable	>!0001011.>;99
NEC25Checksum bit transfer	Disable	>!0001020.>;99
	Enable	>!0001021.>;99
NEC25Minimum length example	5-bit NEC25	>!000103**5**.>;99
NEC25Maximum length example	12-bit NEC25	>!000104**12**.>;99
HK25/ChinaPost/Datalogic25 Bar code switch	Disable	>!0001F90.>;99
	Enable	>!0001F91.>;99
CODE11 Bar code switch	Disable	>!0001700.>;99
	Enable	>!0001710.>;99
CODE11Check Bit Verification	No calibration	>!0001710.>;99
	1-bit checksum	>!0001711.>;99
	2-bit checksum	>!0001712.>;99
CODE11Checksum bit transfer	Disable	>!0001720.>;99
	Enable	>!0001721.>;99
CODE11Minimum length example	5-bit CODE11	>!000173**5**.>;99
CODE11Maximum length example	12-bit CODE11	>!000174**12**.>;99
MSI PLSEEY Bar code switch	Disable	>!0001900.>;99
	Enable	>!0001901.>;99
MSI PLESSYCheck Bit Verification	MOD10 Single character checksum	>!0001911.>;99
	MOD10/MOD10 Double character checksum	>!0001912.>;99
	MOD10/MOD11 Double character checksum	>!0001913.>;99
MSI PLESSYChecksum bit transfer	Disable	>!0001921.>;99
	Enable	>!0001920.>;99

MSIPLESSYMinimum length example	5-bit MSIPLESSY	>!0001935.>;99
MSIPLESSYMaximum length example	12-bit MSIPLESSY	>!00019412.>;99
TELEPEN Switch	Disable	>!0001B90.>;99
	Enable	>!0001B91.>;99
PHARMACODE ONE-TRACK Switch	Disable	>!0001C00.>;99
	Enable	>!0001C01.>;99
Bar code direction	Horizontal	>!0001C10.>;99
	Vertical	>!0001C11.>;99
Data reversal	Disable	>!0001C20.>;99
	Enable	>!0001C21.>;99
TRIOPTIC Code Switch	Disable	>!0001C90.>;99
	Enable	>!0001C91.>;99
Brazilian bank codeBar code switch	Disable	>!0000B60.>;99
	Enable	>!0000B61.>;99
QR Bar code switch	Disable	>!0003100.>;99
	Enable	>!0003101.>;99
QRForward and reverse identification	Read only positive	>!0003120.>;99
	Read only reverse	>!0003121.>;99
	Read only reverseBoth forward and reverse directions	>!0003122.>;99
QRMirror recognition	Disable	>!0003140.>;99
	Enable	>!0003141.>;99
DMBar code switch	Disable	>!0003200.>;99
	Enable	>!0003201.>;99
DMForward and reverse identification	Read only positive	>!0003220.>;99
	Read only reverse	>!0003221.>;99
	Read only reverseBoth forward and reverse directions	>!0003222.>;99
DMMirror recognition	Disable	>!0003240.>;99
	Enable	>!0003241.>;99
PDF417Bar code switch	Disable	>!0003000.>;99
	Enable	>!0003001.>;99
PDF417Forward and reverse identification	Read only positive	>!0003020.>;99
	Read only reverseBoth forward and reverse directions	>!0003022.>;99
AZTEC CODEBar code switch	Disable	>!0003400.>;99
	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 XIN Code ECI Control	No ECI output	>!0003530.>;99
	Output ECI	>!0003531.>;99
MAXI CODE Bar code switch	Disable	>!0003300.>;99
	Enable	>!0003301.>;99
DOTCODE Bar code switch	Disable	>!0003700.>;99
	Enable	>!0003701.>;99
CODABLOCK ABar code switch	Disable	>!0001D00.>;99
	Enable	>!0001D01.>;99
CODABLOCK FBar code switch	Disable	>!0001D90.>;99
	Enable	>!0001D91.>;99
GM code Bar code switch	Disable	>!0003600.>;99
	Enable	>!0003601.>;99
POSTAL CODEBar code switch	Disable	>!0001E00.>;99
	Australian	>!0001E01.>;99
	Royal Mail (RM4CSS)	>!0001E02.>;99
	Intelligent Mail Bar	>!0001E05.>;99
	Japanese Post	>!0001E06.>;99
	KIX Post	>!0001E07.>;99
	Planet code	>!0001E08.>;99
	USPS Postnet	>!0001E09.>;99
Planet codeChecksum bit transfer	Disable	>!0001E10.>;99
	Enable	>!0001E11.>;99
Planet codeChecksum bit transfer	Disable	>!0001E20.>;99
	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 key operation	Keyboard CTRL key combination operation
00h	Null	CTRL 2
01h	Keypad Enter	CTRL A
02h	Caps lock	CTRL B
03h	Right Arrow	CTRL C
04h	Up Arrow	CTRL D
05h	Null	CTRL E
06h	Null	CTRL F
07h	Enter	CTRL G
08h	Left Arrow	CTRL H
09h	Horizontal Tab	CTRL I
0Ah	Down Arrow	CTRL J
0Bh	Vertical Tab	CTRL K
0Ch	Backspace	CTRL L
0Dh	Enter	CTRL M
0Eh	Insert	CTRL N
0Fh	Esc	CTRL O
10h	F11	CTRL P
11h	Home	CTRL Q
12h	Print Screen	CTRL R
13h	Delete	CTRL S
14h	tab+shift	CTRL T
15h	F12	CTRL U
16h	F1	CTRL V
17h	F2	CTRL W
18h	F3	CTRL X
19h	F4	CTRL Y
1Ah	F5	CTRL Z
1Bh	F6	CTRL [
1Ch	F7	CTRL \
1Dh	F8	CTRL]
1Eh	F9	CTRL 6
1Fh	F10	CTRL -
20h	Space	
21h	!	
22h	‘	
23h	#	
24h	$	
25h	%	
26h	&	

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

52h	R
53h	S
54h	T
55h	U
56h	V
57h	W
58h	X
59h	Y
5Ah	Z
5Bh	[
5Ch	\
5Dh	]
5Eh	^
5Fh	_
60h	‘
61h	a
62h	b
63h	c
64h	d
65h	e
66h	f
67h	g
68h	h
69h	i
6Ah	j
6Bh	k
6Ch	l
6Dh	m
6Eh	n
6Fh	o
70h	p
71h	q
72h	r
73h	s
74h	t
75h	u
76h	v
77h	w
78h	x
79h	y
7Ah	z
7Bh	{
7Ch	|

7Dh	}	
7Eh	~	
7Fh		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	0Ah
ITF25	0Bh
IND25	12h
STD25	13h
MATRIX25	11h
NEC25/COOP25	10h
MSI PLSEEY	19h
TELEPEN	1Fh
PHARMACODE ONE-TRACK	23h
TRIOPTIC	22h
QR/MICRO QR	3Dh
PDF 417/MICRO FDF 417	3Ch
DATA MATRIX/DM	3Fh
AZTEC CODE	3Eh
HAN XIN	43h
MAXI CODE	40h
DOTCODE	45h
GM	44h
CODABLOCK A	26h
CODABLOCK F	24h
GS1 DATABAR/RSS	1Ah
POSTAL CODE	25h
OCR	46h
HONG KONG 2 of 5/CHINA POST	20h