
SPACE

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Enter setup

# Factory Defaults

**Factory Defaults**：The communication mode will be restored to HID-KBW. For other default values, please refer to the appendix, "System Default Setting Table", "Barcode Default Setting Table"

Restore All Factory Defaults

$>:S010186.<$

Keep Current Settings

$>:S010086.<$



Exit setup

Enter setup

# Chapter 1: Output Settings

When using USB to connect the scanner and host, users can choose USB HID-KBW, USB virtual serial port or USB HID-POS according to actual needs.

## 1.1.1 USB HID-KBW

**USB HID-KBW：** In keyboard mode, place the mouse cursor on the notepad, etc., and the data will be entered into the notepad after successful decoding.

**USB HID POS：** use HID POS protocol to communicate

USB HID-KBW

$>:S0F0116.<$

(Default)

USB HID POS

$>: S0F0516.<$



Exit setup

### 1.1.2 USB Virtual Com

**USB Virtual Com：** Enumerate into a virtual serial port. At this time, the PC needs to use the serial port assistant to receive data.

USB Virtual Com

$>: S0F0216.<$

Enter setup

# 1.2 Rs232 Interface Settings

When the scanner is connected to the RS-232 port of a host device, the scanner will automatically enable RS-232

communication. However, you need to set communication parameters (including baud rate, parity check, data bit and stop

bit) on the scanner to match the host device so that two devices can communicate with each other.

Rs232

$>: S0F0016.<$



Exit setup

Enter setup

## 1.2.1 Baud rate

Baud rate is the number of bits of data transmitted per second. Set the baud rate to match the host requirements.

1200bps

$>:S0F0047.<$

2400bps

$>:S0F0147.<$

4800bps

$>:S0F0247.<$

9600bps

$>:S0F0347.<$

（默认）

14400bps

$>:S0F0447.<$

（Not support）

19200bps

$>:S0F0547.<$



Exit setup

38400bps

$>:S0F0647.<$

57600bps

$>:S0F0747.<$

115200bps

$>:S0F0847.<$

## 1.2.2 Parity

No Parity

$>:S060046.<$

（Default）

Odd Parity

$>:S060446.<$

（Not currently supported）



Even Parity

$>:S060646.<$

（Not currently supported）

### 1.2.3 Stop Bits

2 Stop Bits

$>:S010146.<$

（Not currently supported）

1 Stop Bit

$>:S010046.<$

（Default）

### 1.2.4 Data Bits

8 Data Bits

$>:S080846.<$

（Default）

7 Data Bits

$>:S080046.<$

（Not currently supported）

Enter setup

## 1.2.5 Flow Control

Non

$>:S600016.<$

（Default）

RTS Flow Control

$>:S602016.<$

（Not currently supported）

CTR Flow Control

$>:S604016.<$

（Not currently supported）

CTS&RTS Flow control

$>:S606016.<$

（Not currently supported）



Exit setup

Enter setup

## 1.3 Keyboard Language

Keyboard layouts vary from country to country. The default setting is U.S. keyboard.

** U.S. (English)

Default

$>:S1F001D.<$

Belgium

$>:S1F011D.<$

Brazil

$>:S1F021D.<$

Canada (French)

$>:S1F031D.<$



Exit setup

Enter setup

Czech slovakia

$>:S1F041D.<$

Denmark

$>:S1F051D.<$

Finland (Swedish)

$>:S1F061D.<$

France

$>:S1F071D.<$



Exit setup

Enter setup

Germany/ Austria

$>:S1F081D.<$

Greece

$>:S1F091D.<$

Hungary

$>:S1F0A1D.<$

Israel (Hebrew)

$>:S1F0B1D.<$



Exit setup

Enter setup

Italy

$>:S1F0C1D.<$

Latin America

$>:S1F0D1D.<$

Netherlands (Dutch)

$>:S1F0E1D.<$

Norway

$>:S1F0F1D.<$



Exit setup

Enter setup

Poland

$>:S1F101D.<$

Portugal

$>:S1F111D.<$

Romania

$>:S1F121D.<$

Russia

$>:S1F131D.<$



Exit setup

Slovakia

$>:S1F151D.<$

Spain

$>:S1F161D.<$

Sweden

$>:S1F171D.<$

Switzerland

$>:S1F181D.<$

Enter setup

Turkey_F

$>:S1F191D.<$

Turkey_Q

$>:S1F1A1D.<$

UK

$>:S1F1B1D.<$

Japan

$>:S1F1C1D.<$



Exit setup

Italy 142

$>:S1F1F1D.<$

## 1.4 Character Encoding

**Original data transmission:**The original decoded data adopts decimal encoding.

**Transfer to internal code to send**: According to the keyboard language settings of different countries, the decoded data will be converted into the corresponding national internal code and sent; please accord with the "keyboard format setting HID-KBW" setting.

Send Original data

$>:S070019.<$

（Default）

Convert to internal code to send

$>:S070319.<$

Convert to UNICODE

$>:S070519.<$

## Encoding preset

**Example:** If the barcode binary code is SHIFT JIS and the content is Russian, at this time, turn off the Chinese output first, select RUSSIA for the national language keyboard layout, and the HID input code is preset to SHIFT JIS, converted to internal code and sent, it will be output correctly Russian.

When HID transmission mode-original data transmission, HID input code preset-invalid! ! !

Auto

$>:SF0000C.<$

（**Default**）

GBK2312

$>:SF0100C.<$



Enter setup

UTF-8

$>:SF0200C.<$

BIG-5

$>:SF0300C.<$

SHIFT JIS

$>:SF0400C.<$

## Chinese output quick settings

You can set Chinese output to TXT or WORD.

Chinese output to TXT

$>:SHTCT01.<$

Chinese output to WORD

$>:SHTCT02.<$



Exit setup

Enter setup

Disable Chinese output

$>:SHTCT03.<$



Exit setup

Enter setup

## 1.5 Invoice scan mode

The QR content format of different invoices is different. After enabling this function, the decoded result will be analyzed and reorganized according to certain rules. Only the national tax is supported.

**National tax regulations:** Start character $+version number 01+base64 (name</>taxpayer identification number</>address telephone</>account opening bank and account number</>CRC)+terminator $.

Disable

$>:S0F002A.<$

Default

National tax

$>:S01002A.<$



Exit setup

Enter setup

# 1.6 Ctrl+Function keys Mode

Function keys refer to F1-F12. To output Enter, you also need to set "output function keys"

Output function keys

$>:S070036.<$

（Default）

Output CTRL key combination

$>:S070136.<$

**Example: Set the prefix to "F8" (hexadecimal value is 0x1D)**

1) Scan "Enter setup" barcode
2) Read the code "Allow adding custom prefixes"
3) Read the "Set Custom Prefix" code
4) Read the following data codes: "1" "D" (in Appendix)
5) Scan"Save code" barcode（in Appendix)）
6) Scan "output CTRL key combination" barcode
7) Scan"Exit setup" barcode”



Exit setup

Enter setup

# 1.7 Keyboard mode setting

## Keyboard input mode

Standard keyboard input mode

$>:S030037.<$

Virtual keyboard input mode ALT+NUM

$>:S030337.<$

Keyboard emulation input character mode

$>:S030237.<$

（**Not support**）

Keyboard Simulation Input Control Character Mode

$>:S030137.<$

（**Not support**）



Exit setup

Enter setup

## Caps Lock

No Case Conversion

$>:S380037.<$

Letter case interchange

$>:S380837.<$

Convert All to Upper Case

$>:S382037.<$

Convert All to Lower Case

$>:S383037.<$



Exit setup

Enter setup

## ALT+ Num Special settings

**When outputting internal code,** if use alt+Num model,, the first number is 0, then the received input method needs to set the corresponding national keyboard, otherwise it may be garbled; if the first digit does not add zero, the received system code needs It is consistent with the internal code output from the scanner, otherwise garbled codes may appear.

When the keyboard can not output standard ASCII characters, you can choose to use ALT+number instead of output.

Not output the leading 0

$>:S080036.<$

Output leading 0

$>:S080836.<$

（**Default**）

Keyless ASCII is not output

$>:S100036.<$

（**Default**）

ALT+Numbers instead of keyless ASCII

$>:S101036.<$



Exit setup

# 3.System settings

## 3.1 Enter setup and Exit setup

Scanning the **Enter Setup** barcode can enable the scanner to enter the setup mode. Then you can scan a number of programming barcodes to configure your scanner.

To exit the setup mode, scan the **Exit Setup** barcode or a nonprogramming barcode, or reboot the scanner.

Enter setup

$>:S01010F.<$

Exit setup

$>:S01000F.<$

（Default）

Enter setup

## 3.2 Scan Mode

**3.2.1 Manual Mode** press the button to trigger the reading, and release the button to end the reading. If the reading time is successful or the reading time exceeds the single reading time, the reading will end.

*Manual mode

$>: S03001A.<$

（Default）



Exit setup

**3.2.2 Automatic Scanning Mode** In the induction mode, you can activate the scanner to work by pressing a button, sending a command, or automatically sensing.

Automatic Mode

$>: S03011A.<$

### 3.3.3 Continuous Scanning Mode

Continuous Scanning Mode，no manual trigger required, When reading success or after the end of single code reading time，will automatically start the next reading.（Continuous scanning period can switch to manual mode by press the button temporary.）

Continuous Mode

$>: S03021A.<$

Enter setup

## Decode Session Timeout

Decode Session Timeout

$>: R000302.<$

**Example: Set the reading interval to 500ms (data code expressed in hexadecimal)**

1) Scan "**Enter setup**" barcode
2) Scan "Decode Session Timeout" barcode
3) Scan “1” （in Appendix)）
4) Scan “F” （in Appendix)）
5) Scan “4” （in Appendix)）
6) Scan "**Save**" barcode （in Appendix)）
7) Scan"**Exit setup**" barcode”



Exit setup

Enter setup

## Single reading time

Enabling the reading till the reading turned off automatically when the timeout is reached

Single reading timeout

$>: R000064.<$

**Example: Set the single reading time 4000ms(The data code is expressed in hexadecimal)**

1) Scan "**Enter setup**" barcode
2) Scan the "single reading timeout " code
3) Scan “F” （in Appendix)）
4) Scan “A” （in Appendix)）



Exit setup

5) Scan “0” （in Appendix)）

6) Scan "**Save** " barcode （in Appendix)）

7) Scan"**Exit setup**" barcode

Enter setup

## Timeout between Decodes (Same Barcode)

Timeout between Decodes (Same Barcode) can avoid undesired rereading of same barcode in a given period of time. This

feature is only applicable to the Sense and Continuous modes.

Disable Timeout between Decodes (Same Barcode)

$>:S100017.<$

Enable Timeout between Decodes (Same Barcode)

$>:S101017.<$

Same code reading time setting

$>: R000322.<$



Exit setup

Enter setup

## Sensitivity

Sensitivity specifies the degree of acuteness of the scanner’s response to changes in images captured. The higher the sensitivity, the lower requirement in image change to trigger the scanner. You can select an appropriate degree of sensitivity that fits the application environment. The feature is only applicable to the Sense mode.

Enhanced Sensitivity

$>:S3F0034.<$

（Default）

High Sensitivity

$>:S3F0534.<$

Medium Sensitivity

$>:S3F1034.<$

Low Sensitivity

$>:S3F3034.<$



Exit setup

Enter setup

# 3.3 Sleep settings

## 3.3.1 Enable/Disable sleep

**Sleep mode: Refers to the sleep mode when there is no operation for a period of time, and some resources will be shut down.**

Disable automatic sleep

$>:S200017.<$

（Default）

Enable automatic sleep

$>:S202017.<$

## 3.3.2 Sleep tme setting

Sleep time

$>:R000012.<$

**Example: Set the sleep time 1000ms (The data code is expressed in hexadecimal)**



Exit setup

Enter setup

1) Scan "**Enter setup**" barcode

2) Scan “Sleep time”barcode

3) Scan “3”（in Appendix)）

4) Scan “E”（in Appendix)）

5) Scan “8”（in Appendix)）

6) Scan "**Save** " barcode（in Appendix)）

7) Scan"Exit setup" barcode”



Exit setup

Enter setup

# 3.4 Scan successfully setting

## 3.4.1 Enable /Disable beep

Enable prompt tone for successful reading

(Setting code)

$>:S020229.<$

（Default）

Disable prompt tone for successful reading

(Setting Code)$

>:S020029.<$

Enable the prompt tone for successful reading (not setting code)

$>:S040429.<$

（Default）

Disable prompt tone for successful reading (not setting code)

$>:S040029.<$



Exit setup

### 3.4.2 Enable/Disable the same code beep

Enable

$>:S010135.<$

Disable

$>:S010035.<$

（Default）

### 3.4.3 Beep Frequency

Low

$>:SFFDA27.<$

Medium

$>:SFF4B27.<$

Loud

$>:SFF2527.<$

（Default）

Enter setup

### 3.4.4 Good Read Beep time

40ms (Short)

$>:SFF1F28.<$

80ms(Middle)

$>:SFF3E28.<$

（Default）

120ms (Long)

$>:SFF5D28.<$

### 3.4.5 Read Tone sound

Low

$>:S030018.<$

Medium

$>:S030118.<$



Exit setup

Enter setup

Loud

$>:S030218.<$



Exit setup

Enter setup

## 3.4.6 Enable/Disable the reminder light（LED）

Enable the LED

$>:S101029.<$

（Default）

Disable the LED

$>:S100029.<$

## 3.4.7 Enable /Disable same code LED

Enable

$>:S020235.<$

Disable

$>:S020035.<$

（Default）



Exit setup

Enter setup

# 3.5 Other sound setting

## 3.5.1 Enable/Disable Power tone

* Enable Power tone

$>:S010129.<$

（Default）

Disable Power tone

$>:S010029.<$

Buzzer prompt

$>:S202029.<$

（Default）

Enable unknown character sound

$>:S080829.<$

Disable unknown character beep

$>:S080029.<$



Exit setup

## 3.5.2 Mute setting

Disable Mute

$>:S404000.<$

Enable Mute

$>:S400000.<$

# 3.6 Image property settings

In some application scenarios, the default image may not meet the decoding needs. At this time, you can turn on/off certain image properties (such as Image sharpening) to meet the decoding needs in special scenarios.

The basic steps of image attribute setting are as follows:

- Enable setting code
- Set on/off image properties
- Enable image extension settings

For example, Disable Image Sharpening, follow the setting steps as follows:

1) Scan code:Enter setup
2) Scan code: Disable Image sharpening
3) Scan code: Enable Image extension settings

## 3.6.1 Enable Image extension setting

$>:S010123.<$

Enable Image extension setting

$>:S010023.<$

Disable Image extension setting

Disable（Default）

Enter setup

## 3.6.2 Image sharpening

$>:S020223.<$

Enable Imagesharpening

（Default）

$>:S020023.<$

Disable Image sharpening

## 3.6.3 Decode timeout setting

**Decode timeout:** used to control the decoder to exit the decoding of the current image with the set timeout time and proceed to the decoding of the next image when the decoding fails.

## 1D Decoding timeout setting

$>:S01010B.<$

Enable 1D code timeout

（Default）

$>:S01000B.<$

Disable 1D code timeout



Exit setup

Enter setup

## 1D decode timeout time setting

$>:R001A04.<$

1D decode timeout time

## 2D Decode timeout setting

$>:S02020B.<$

Enable 2D code timeout

（Default）

$>:S02000B.<$

Disable 2D code timeout

## 2D decode timeout time setting

$>:R001A44.<$

2D Decode timeout time



Exit setup

## 3.6.4 Vertical scan

**Function description:** When this setting is turned on, the decoding will increase the vertical scanning to improve the success rate of the decoding, but if the decoding fails, the decoding time will increase

$>:S010122.<$

Enable

$>:S010022.<$

Disable

（Default）

Enter setup

# 3.7 Lighting settings

## 3.7.1 Illumination

Illumination action one: the environment when take the picture;action two: prompt of decoding completion

Off

$>:S0C0000.<$

Reading On

$>:S0C0400.<$

Always On

$>:S0C0800.<$



Exit setup

Enter setup

### 3.7.2 Aiming

Off

$>:S300000.<$

Reading On

$>:S301000.<$

Always On

$>:S302000.<$



Exit setup

## 3.7.3 Setting of Automatic Lights for Dark Light

$>:S020021.<$

Enable

(Default)

$>:S020221.<$

Disable

When the dark light environment is enabled, the decoder detects the image according to the set [Detection Time], and judges it in a dark light environment according to the [Detection Threshold]. When the detected value is less than the set threshold. Then the decoder automatically turns on the light.

$>:R0019C2.<$

Dark light detection time setting

Dark light detection threshold setting

$>:R0019E1.<$

**Dark light detection time and dark light detection threshold setting setting steps**

1) Scan code [EnterSetup]

2) Scan code [dark light detection time setting] or【$>:R0019E1.<$】

Enter setup

3) Scan code [digital code]

4) Scan code [save]

5) Scan code Exit Setup



Exit setup

Enter setup

# 4. Data editing

In practical applications, we sometimes need to edit the read data before outputting it to facilitate data differentiation and processing.

Data editing includes: adding prefix, adding suffix, decoding information, adding terminator

The default output sequence of processed data is as follows: <prefix> <barcode data><suffix><terminator>

## 1.8 Prefix/Suffix Setting

All types of prefixes and suffixes are allowed

$>:S80804E.<$

（Default）

Do not add any prefixes and suffixes

$>:S80004E.<$



Exit setup

Enter setup

# 1.9 Prefix order setting

Custom prefix + Code ID + AIM ID

$>:S01014E.<$

Code ID + Custom prefix + AIM ID

$>:S01004E.<$

（Default）



Exit setup

Enter setup

# 1.10 Custom prefix

**Custom prefix：** The custom prefix adds a user-defined string before the decoded information. For example, it is allowed to add a custom prefix and set the prefix to the character string "AB". After reading the barcode with the data "123", the scanner adds the character string "AB" before the character string "123", and the host receives "AB123" "；

## 1.10.1 Enable/Disable adding custom prefix

Allow adding custom prefixes

$>:S04044E.<$

Do not add custom prefixes

$>:S04004E.<$

（Default）

## 1.10.2 Set custom prefix

Set custom prefix

$>: R000505.<$



Exit setup

Enter setup

**Example: Set custom prefix to“CODE”（The hexadecimal value is0x43/0x4F/0x44/0x45）**

8) Scan "Enter setup" barcode

9) Read the "Set Custom Prefix" code

10) Scan data code：“4”“3”“4”“F”“4”“4”“4”“5”（in Appendix)）

11) Scan"Save code" barcode（in Appendix)）

12) Read the code "Allow adding custom prefixes"

13) Scan"Exit setup" barcode”

# 1.11 AIM ID Prefix

AIM is the abbreviation of Automatic Identification Manufacturers (Association of Automatic Identification Manufacturers). AIM defines identification codes for various standard bar codes, which are defined in Appendix). The scanner can add this identification code before the barcode data after decoding, that is, the AIM ID prefix.

Allow add AIM ID

$>:S010182.<$

Prohibit addAIM ID

$>:S010082.<$

（Default）



Exit setup

Enter setup

$>:DEFXXC2.<$

all barcodeCode IDRestore factory default value



Exit setup

Enter setup

# 1.12 CODE ID prefix

In addition to the AIM ID prefix can be used to identify different bar code types, users can also use the Code ID prefix to identify bar code types. Unlike the AIM ID prefix, the Code ID prefix corresponding to each barcode type can be customized. The CodeID of all barcodes is 1 or 2 characters, and must be letters, and cannot be set as numbers, invisible characters, or punctuation marks, etc.

## 1.12.1 Allow/prohibit addingCODE ID prefix

Allow to addCODE ID prefix

$>:S02024E.<$

Prohibit add CODE ID prefix

$>:S02004E.<$

（Default）

## 1.12.2 Setting CODE ID prefix

Please refer to the following example for the method of modifying Code ID.

**Example: Modify the Code ID of Code 128 to "p" (the hexadecimal value is 0x70)**

1) Scan "Enter setup" barcode



Exit setup

2) Scan“CODE128 CODE ID setting”code

3) Scan data code：“7”（in Appendix)）

4) Scan data code：“0”（in Appendix)）

5) Scan"Save code" barcode（in Appendix)）

6) Scan“Allow to addCODE ID prefix”code

7) Scan"Exit setup" barcode”

Enter setup

# 1.13 Custom suffix

**Custom suffix：** The custom suffix is to add a user-defined string after decoding the information. For example, it is allowed to add a custom suffix and set the suffix to the character string "AB". After reading the barcode with the data as "123", the scanner adds the character string "AB" after the character string "123", and the host receives "123AB" ".

**Note: The total length of the custom suffix string cannot exceed 5 characters.**

## 1.13.1 Allow/prohibit addingCustom suffix

Allow to addCustom suffix

$>:S08084E.<$

Prohibit addCustom suffix

$>:S08004E.<$

（Default）

## 1.13.2 Setting Custom suffix

Setting Custom suffix



Exit setup

Enter setup

$>:R0005B5.<$

**Example: Setting custom prefix is "CODE" (hexadecimal value is 0x43/0x4F/0x44/0x45)**

1) Scan "Enter setup" barcode
2) Scan“Setting Custom suffix”code
3) Scan below data code：“4”“3”“4”“F”“4”“4”“4”“5”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）
5) Scan“Allow to addCustom suffix”code
6) Scan"Exit setup" barcode”

Enter setup

# 1.14 Suffix

The terminator suffix (such as carriage return, line feed) is used to mark the end of a complete data message. The terminator suffix must be the last content when a piece of data is sent, and there will be no additional data after that.

Note: The total length of the terminator suffix string cannot exceed 5 characters.

## 1.14.1 Enable / Disable Suffix

Enable suffix

$>:S10104E.<$

（Default）

Disable suffix

$>:S10004E.<$



Exit setup

Enter setup

Read the following setting codes, you can quickly set the terminator to 0x0D (carriage return) or 0x0D, 0x0A (carriage return) or 0x09 (Tab), and allow adding terminator to send.

Set suffix

$>:R000655.<$

Set suffix 0x0D

$>:DEFXXC3.<$

（Default）

Set suffix 0x0D,0x0A

$>:DEFXXC4.<$

Set suffix 0x09

$>:DEFXXC5.<$

Users can also customize the terminator suffix: first read "Setting terminator suffix", then read the hexadecimal value of the terminator suffix to be set in sequence, and finally read "Save".

Note: The total length of the terminator suffix string cannot exceed 5

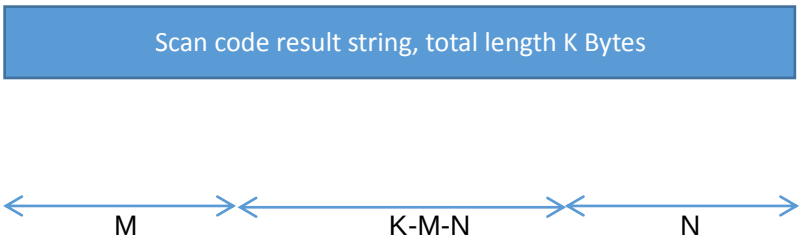
characters.

**Example：Setting Custom suffix is 0x0A**

1) Scan "Enter setup" barcode
2) Scan“Set suffix”code
3) Scan below data code：“0”“A”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）
5) Scan“Enable sufix ”code
6) Scan"Exit setup" barcode”

# 1.15 Field interception

Field interception refers to the secondary editing of the scan code result. Assuming that the scan code result data contains a total length of K bytes, the first segment is M bytes and the latter segment is N bytes. The value range of M and N is 0-255.




Interception method and effect

Keep as it is

Reserve the first M bytes

Reserve N bytes in the back section

Reserve K-M-N bytes in the middle section

If you want to hide the previous data, N is set to 0, keep the middle, that is, K-M-0

If you want to hide the later data, set M to 0 and keep the middle, ie K-0-N

Keep only the front part

$>:S180882.<$

Keep only the back part

$>:S181082.<$

（Default）

Enter setup

Keep only the middle section

$>:S181882.<$

Keep orign

$>:S180082.<$

（Default）

For the setting of the M value in the front section and the N value in the back section, the set length is 0-255, that is, 0x00-0xFF.

For example, to set the M value to 18, the corresponding ASCII hexadecimal value is 12, first scan the "previous M value setting", then the numbers "1" and "2" respectively, and then scan the "save".

Front M value setting

$>:R000831.<$

N value setting in the back section

$>:R000841.<$



Exit setup

Enter setup

# 1.16 GS character conversion

GS character conversion refers to replacing the 0x1D contained in the content with the specified ASCII character.

## 1.16.1 Enable/ Disable GS character conversion

Enable GS characters conversion

$>:S010181.<$

Disable GS characters conversion

$>:S010081.<$

（Default）

## 1.16.2 Set GS Character conversion

Set GS Conversion

$>:R0006A6.<$

**Example:** Set the GS conversion to "####"（The hexadecimal value is 0x23/0x23/0x23/0x23）

1) Scan "Enter setup" code



Exit setup

Enter setup

2) Scan“Set GS CONVERSION ”code

3) Scan：“2”“3”“2”“3”“2”“3”“2”“3”（in Appendix)）

4) Scan "Save "（in Appendix)）

5) Read the code "Enable GS characters Conversion"

6) Scan"Exit setup"

## 1.16.3 Quick setting code for special GS Conversion

Including replace with“[GS]”、“(GS)”、“<GS>”“’GS’”Four kinds

$>:SHTCT04.<$

GS

$>:SHTCT05.<$

<GS>

$>:SHTCT06.<$

(GS)

$>:SHTCT07.<$

[GS]



Exit setup

Enter setup

$>:SHTCT08.<$

‘GS’

$>:SHTCT09.<$

`GS`

$>:SHTCT0A.<$

|

$>:SHTCT0B.<$

?

$>:SHTCT0C.<$

*

$>:SHTCT0D.<$

<0x1D>

## 1.17 Set NGR information

After enable send NGR function code, when the decoding times out, the



Exit setup

Enter setup

scanner will send user-defined NGR information to the host to determine the reading failure; users can set their own customized content by setting the NGR information. (NGR Maxi 7 characters!)

## 1.17.1 Enable/ Disable send NGR

Enable Send NGR

$>:S40404E.<$

Disable send NGR

$>:S40004E.<$

（Default）

## 1.17.2 Set NGR information

Set NGR information

$>: R000767.<$

**Example: Set NGR information to "FAIL" (hexadecimal value is 0x46/0x41/0x49/0x4C)**

1) Scan "Enter setup"
2) Scan the "Set NGR Information"
3) Scan the following data code: "4" "6" "4" "1" "4" "9" "4" "C" (in Appendix)



Exit setup

4) Scan "Save"(in Appendix))

5) Read the "Enabel send NGR

6) Scan"Exit setup" barcode”

# 2 Barcode parameter setting

## 2.1 Global Setting

### 2.1.1 Enable/Disable all barcode

Set "Disable all barcode", the scanne cannot read other codes except the setting code

Enable all barcode

$>:S010187.<$

Disable all barcode

$>:S010087.<$

### 2.1.2 Enable/Disable read all 1D barcodes

Enable all 1D Codes

$>:S020287.<$

Disable all 1D code

$>:S020087.<$

Enter setup

## 2.1.3 Enable/Disable read all 2D barcodes

Enable all 2D codes

$>:S040487.<$

Disable all 2D codes

$>:S040087.<$

**Note: CODE128 and QR barcodes are enable, all setting codes cannot disable both of them.**



Exit setup

Enter setup

## 2.1.4 Enable/Disable all 1D/2D Reverse barcode

Enable all 1D reverse barcode

$>:S080887.<$

Disable all 1D reverse barcode

$>:S080087.<$

（Default）

Enable all 2D reverse barcode

$>:S101087.<$

Disable all 2D reverse barcode

$>:S100087.<$

（Default）



Exit setup

Enter setup

# 2.2 Code128/AIM128/EAN128/NL128

## 2.2.1 Enable/Disable

Enable

$>:S010188.<$

（Default）

Disable

$>:S010088.<$

## 2.2.2 CODE ID

Set CODE128 CODE ID

$>: R001342.<$



Exit setup

### 2.2.3 Read barcode length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the data to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODE 128 Maximum decoding length

$>: R000C21.<$

CODE 128 Minimum decoding length

$>: R000C31.<$

**Example: Limited the scanner only read minimum 8 characters and maximum 12 characters**

1) Scan "Enter setup"

2) Read"CODE 128 minimum decoding length"

Enter setup

3) Scan 数据码“8”（in Appendix)）

4) Scan"Save " （in Appendix)）

5) Scan the "CODE 128 maximum decoding length"

6) Scan 数据码“C”（in Appendix)）

7) Scan"Save " barcode（in Appendix)）

8) Scan"Exit setup" barcode”

# 2.3 UPC/EAN/ISSN/ISBN

## 2.3.1 Enable/Disable scan

Enable

$>:S010189.<$

（Default）

Disable

$>:S010089.<$



Exit setup

Enter setup

## 2.3.2 CODE ID setting

Set EAN CODE ID

$>: R001362.<$



Exit setup

Enter setup

## 2.3.3 Parity Bits transmission

EAN8 parity output

$>:S0101AA.<$

（Default）

EAN8 not parity output

$>:S0100AA.<$

EAN13parity output

$>:S0202AA.<$

（Default）

EAN13not parity output

$>:S0200AA.<$



Exit setup

Enter setup

UPCA parity output

$>:S0404AA.<$

（Default）

UPCA not parity output

$>:S0400AA.<$

UPCE parity output

$>:S0808AA.<$

（Default）

UPCE not parity output

$>:S0800AA.<$



Exit setup

Enter setup

## 2.3.4 Set whether to enable scan additional codes

After setting it to "Read 2 digits additional code" or "Read 5 digits additional code", the scanner can read new barcodes composed of ordinary barcodes and additional codes, as well as ordinary barcodes without additional codes. After setting to "not read 2-digit additional code" or " not read 5-digit additional code", the part of the additional code in the new barcode composed of ordinary barcode and additional code will not be read, and the part of the ordinary barcode can still be read. Common sense reading.

Read 2-digit additional code

$>:S101089.<$

（Default）

Not read 2-digit additional code$>:S100089.<$

Read 5-digit additional code

$>:S080889.<$

（Default）

Not read 2-digit additional code

$>:S080089.<$



Exit setup

## 2.3.5 Set whether additional code is required

This parameter is only valid when the scanner has been set to read "2-digit additional code" or "read 5-digit additional code".

With additional code

$>:S808089.<$

No additional code required

$>: S800089.<$

（Default）

## 2.3.6 Extended settings

“Barcode information is not extended", mean keep all original types and data bits

"Extend the barcode information to 13 bits", mean expand the Data Bits of the barcode (prefix 0), but the barcode type does not change.

ENA8 to ENA13 OPEN

$>:S600089.<$

ENA8 to ENA13 CLOSE

$>:S602089.<$

（Default）

UPCE to UPCA OPEN

$>:S1010A4.<$

UPCE to UPCA CLOSE

$>:S1000A4.<$

（Default）

UPCA to EAN13 OPEN

$>:S0301A4.<$

UPCA to EAN13 CLOSE

$>:S0300A4.<$

（Default）

Barcode information 8 extension13

$>:S600089.<$

Barcode information is not expanded

$>:S602089.<$

（Default）

# 2.4 Codabar

## 2.4.1 Enable/Disable

Enable

$>:S01018C.<$

Disable

$>:S01008C.<$

（Default）

## 2.4.2 CODE ID

Set CODABAR CODE ID

$>: R0013E2.<$

### 2.4.3 Parity settings

The check digit is not mandatory in the Codabar barcode data. If there is a check digit, it is the last character of the data. The check digit is a value calculated based on all data to check whether the data is correct.

Set to "No Check", the scanner will transmit all barcode data normally.

Set to "Check but not send check digit", the scanner will check according to the last 1 digit of the barcode. If the check is passed, it will transmit normal data except the check digit. If the check fails, it will prompt the barcode reading failure.

Set to "Check and send check digit", the scanner will check the last 1 digit of the barcode. If the check is passed, the check digit will be transmitted as the last 1 digit of normal data. If the check fails, it will be prompted to read the code. failure.

None parity

$>:S02008C.<$

（Default）

Check but not send check digit

$>:S06028C.<$

Enter setup

Check and send check digit

$>:S06068C.<$



Exit setup

Enter setup

## 2.4.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODABAR Maximum decoding length

$>: R000C81.<$

CODABAR Minimum decoding length

$>: R000C91.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup"
2) Scan“CODABARM aximum decoding length



Exit setup

Enter setup

3) Scan data code “8”（in Appendix)）
4) Scan"Save " （in Appendix)）
5) Scan“CODABAR Maximum decoding length”
6) Scan data code “C”（in Appendix)）
7) Scan"Save" （in Appendix)）
8) Scan"Exit setup"

## 2.4.5 Send Start/stop character setting

Not Send start/stop character

$>:S08088C.<$

（Default）

Send start/stop character

$>:S08008C.<$

Start/stop character case setting

Start character upper caser

$>:S20008C.<$

（Default）

Start character Lower case

$>:S20208C.<$



Exit setup

# 2.5 Code 39

## 2.5.1 Enable/Disable scan

Allow reading

$>:S01018A.<$

（Default）

Prohibit scan

$>:S01008A.<$

## 2.5.2 CODE ID setting

CODE39 CODE ID setting

$>: R001382.<$

### 2.5.3 Parity settings

CThe check digit is not mandatory in the ode 39 barcode data. If there is a check digit, it is the last character of the data. The check digit is a value calculated based on all data to check whether the data is correct.

Set to "None parity", the scanner will transmit all barcode data normally.

Set to "Check but not send check digit", the scanner will check according to the last 1 digit of the barcode. If the check is passed, it will transmit normal data except the check digit. If the check fails, it will prompt the barcode reading failure.

Set to "Check and send check digit", the scanner will check the last 1 digit of the barcode. If the check is passed, the check digit will be transmitted as the last 1 digit of normal data. If the check fails, it will be prompted to read the code. failure.

None parity

$>:S02008A.<$

（Default）

Check but not send check digit

$>:S06028A.<$

Check and send check digit

$>:S06068A.<$



## 2.5.4 Expandsupport

Enablel Expand

$>:S08088A.<$

Disable Expand

$>:S08008A.<$

（Default）

## 2.5.5 Full ASCIIsupport

Enable full ascii

$>:S20208A.<$

（Default）

Disable full ascii

$>:S20008A.<$

Enter setup

## 2.5.6 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODE 39 Maximum decoding length

$>: R000C41.<$

CODE 39Maximum decoding length

$>: R000C51.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcode



Exit setup

2) Scan“CODE 39Maximum decoding length”barcode
3) Scan data code “8”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）
5) Scan“CODE 39 Maximum decoding length”barcode
6) Scan data code “C”（in Appendix)）
7) Scan"Save code" barcode（in Appendix)）
8) Scan"Exit setup" barcode”

## 2.5.7 Send PREFIX character （A）

Send PREFIX character（A）

$>:S1010AB.<$

Not send PREFIX Character

$>:S1000AB.<$

（Default）

## 2.5.8 CODE39 Send Leading character（*）

CODE39 Send leading

$>:S2020AB.<$

CODE39 Don’t send Leading

$>:S2000AB.<$

（Default）

Enter setup

# 2.6 Code32

## 2.6.1 Enable/Disable scan

Enable

$>:S0101AB.<$

（Default）

Disable

$>:S0100AB.<$

## 2.6.2 CODE ID setting

CODE32 CODE ID setting

$>:R001792.<$



Exit setup

## 2.6.3 Send PREFIX character （A）

Send PREFIX character （A）

$>:S1010AB.<$

Not send PREFIXcharacter

$>:S1000AB.<$

（Default）

Enter setup

## 2.6.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODE 32 Maximum decoding length

$>:R001181.<$

CODE 32Maximum decoding length

$>:R001191.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcode
2) Scan“CODE 32Maximum decoding length”barcode
3) Scan data code “8”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）



Exit setup

5) Scan“CODE 32 Maximum decoding length”barcode
6) Scan data code “C”（in Appendix)）
7) Scan"Save code" barcode（in Appendix)）
8) Scan"Exit setup" barcode”

# 2.7 Code 93

## 2.7.1 Enable/Disable scan

Enable

$>:S01018D.<$

（Default）

Disable

$>:S01008D.<$

## 2.7.2 CODE ID setting

CODE93 CODE ID setting

$>: R001402.<$

### 2.7.3 Parity settings

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

Set to "None parity", the scanner will transmit all barcode data normally.

Set to "Check but not send check digit", the scanner will check according to the last 2 digits of the barcode. If the check is passed, it will transmit normal data except the check digit. If the check fails, it will prompt the barcode reading failure.

Set to "Check and send check digit", the scanner will check according to the last 2 digits of the bar code. If the check is passed, the check digit will be transmitted together as the last 2 digits of normal data. If the check fails, it will be prompted to read the code. failure.

None parity

$>:S02008D.<$

（Default）

Check but not send check digit

$>:S06028D.<$

Enter setup

Check and send check digit

$>:S06068D.<$



Exit setup

Enter setup

## 2.7.4 Full ASCIIsupport

**Full ASCII:** The encoding method of Code 39 can include the representation of all ASCII characters. By setting, the scanner can support barcodes containing the full ASCII character set.

Enable full ascii

$>:S20208D.<$

（Default）

Disablefull ascii

$>:S20008D.<$



Exit setup

Enter setup

## 2.7.5 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODE 93 Maximum decoding length

$>: R000CA1.<$

CODE 93Maximum decoding length

$>: R000CB1.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcode



Exit setup

Enter setup

2) Scan“CODE 93Maximum decoding length”barcode
3) Scan data code “8”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）
5) Scan“CODE 93 Maximum decoding length”barcode
6) Scan data code “C”（in Appendix)）
7) Scan"Save code" barcode（in Appendix)）
8) Scan"Exit setup" barcode”



Exit setup

Enter setup

# 2.8 Code 11

## 2.8.1 Enable/Disable scan

Enable

$>:S01018F.<$

Disable

$>:S01008F.<$

（Default）

## 2.8.2 CODE ID setting

CODE11 CODE ID setting

$>: R001442.<$



Exit setup

### 2.8.3 Parity settings

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

Set to "None parity", the scanner will transmit all barcode data normally.

None parity

$>:S02008F.<$

（Default）

2 parity bits

$>:S08088F.<$

1parity bit

$>:S08008F.<$

Check but not send check digit

$>:S06028F.<$

Enter setup

Check and send check digit

$>:S06068F.<$



Exit setup

Enter setup

## 2.8.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CODE 11 Maximum decoding length

$>: R000CE1.<$

CODE 11Maximum decoding length

$>: R000CF1.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcode
2) Scan“CODE 11Maximum decoding length”barcode
3) Scan data code “8”（in Appendix)）



Exit setup

4) Scan"Save code" barcode（in Appendix)）
5) Scan“CODE 11 Maximum decoding length”barcode
6) Scan data code “C”（in Appendix)）
7) Scan"Save code" barcode（in Appendix)）
8) Scan"Exit setup" barcode”

Enter setup

# 2.9 ITF-25/ITF-14/ITF-6/ Deutsche12/ Deutsche14

## 2.9.1 Enable/Disable

Enable

$>:S01018B.<$

（Default）

Disable

$>:S01008B.<$

## 2.9.2 CODE ID setting

ITF CODE ID setting

$>: R0013C2.<$



Exit setup

### 2.9.3 Parity settings

Interleaved 2 of 5 barcode data is not mandatory to include a check digit. If there is a check digit, it is the last character of the data. The check digit is a value calculated based on all data to verify whether the data is correct.

Set to "None parity", the scanner will transmit all barcode data normally.

Set to "Check but not send check digit", the scanner will check the last 1 digit of the barcode. If the check is passed, it will transmit normal data except the check digit. If the check fails, it will prompt the barcode reading failure.

Set to "Check and send check digit", the scanner will check the last 1 digit of the barcode. If the check is passed, the check digit will be transmitted as the last 1 digit of normal data. If the check fails, it will be prompted to read the code. failure.

None parity

$>:S02008B.<$

（Default）

Check but not send check digit

$>:S06028B.<$

Check and send check digit

$>:S06068B.<$

Enter setup

## 2.9.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

ITF Maximum decoding length

$>: R000C61.<$

ITFMaximum decoding length

$>: R000C71.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcode
2) Scan“ITFMaximum decoding length”barcode
3) Scan data code “8”（in Appendix)）



Exit setup

4) Scan"Save code" barcode（in Appendix)）
5) Scan“ITF Maximum decoding length”barcode
6) Scan data code “C”（in Appendix)）
7) Scan"Save code" barcode（in Appendix)）
8) Scan"Exit setup" barcode”

# 2.10 Industrial 25

## 2.10.1 Enable/Disable scan

Enable

$>:S010193.<$

Disable

$>:S010093.<$

（Default）

## 2.10.2 CODE ID setting

INDUSTRIAL25 CODE ID setting

$>: R0014E2.<$

Enter setup

## 2.10.3 Parity settings

The check digit is not mandatory in the Industrial 25 barcode data. If there is a check digit, it is the last character of the data. The check digit is a value calculated based on all data to check whether the data is correct.

Set to "None parity", the scanner will transmit all barcode data normally.

Set to "Check but not send check digit", the scanner will check according to the last 1 digit of the barcode. If the check is passed, it will transmit normal data except the check digit. If the check fails, it will prompt the barcode reading failure.

Set to "Check and send check digit", the scanner will check the last 1 digit of the barcode. If the check is passed, the check digit will be transmitted as the last 1 digit of normal data. If the check fails, it will be prompted to read the code. failure.

None parity

$>:S020093.<$

（Default）

Check but not send check digit

$>:S060293.<$



Exit setup

Enter setup

Check and send check digit

$>:S060693.<$



Exit setup

## 2.10.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

INDUSTRIAL 25 Maximum decoding length

$>: R000D41.<$

INDUSTRIAL 25Maximum decoding length

$>: R000D51.<$

Enter setup

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcode
2) Scan“INDUSTRIAL 25Maximum decoding length”barcode
3) Scan data code “8”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）
5) Scan“INDUSTRIAL 25 Maximum decoding length”barcode
6) Scan data code “C”（in Appendix)）
7) Scan"Save code" barcode（in Appendix)）
8) Scan"Exit setup" barcode”



Exit setup

# 2.11 Matrix 25

## 2.11.1 Enable/Disable scan

Enable

$>:S01018E.<$

Disable

$>:S01008E.<$

（Default）

## 2.11.2 CODE ID setting

MATRIX25 CODE ID setting

$>: R001422.<$

Enter setup

## 2.11.3 Parity settings

None parity

$>:S02008E.<$

（Default）

Check but not send check digit

$>:S06028E.<$

Check and send check digit

$>:S06068E.<$



Exit setup

## 2.11.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

Matrix25 Maximum decoding length

$>: R000CC1.<$

Matrix25Maximum decoding length

$>: R000CD1.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcode
2) Scan“Matrix25Maximum decoding length”barcode
3) Scan data code “8”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）

Enter setup

5) Scan“Matrix25 Maximum decoding length”barcode
6) Scan data code “C”（in Appendix)）
7) Scan"Save code" barcode（in Appendix)）
8) Scan"Exit setup" barcode”

# 2.12 NEC 25 /Japan Matrix 25

## 2.12.1 Enable/Disable scan

Enable

$>:S01019E.<$

Disable

$>:S01009E.<$

（Default）

## 2.12.2 CODE ID setting

NEC25 CODE ID setting

$>: R001642.<$



Exit setup

Enter setup

## 2.12.3 Parity settings

None parity

$>:S02009E.<$

（Default）

Check but not send check digit

$>:S06029E.<$

Check and send check digit

$>:S06069E.<$



Exit setup

Enter setup

## 2.12.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

NEC25 Maximum decoding length

$>: R000FE2.<$

NEC25Maximum decoding length

$>: R001002.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcode
2) Scan“NEC25Maximum decoding length”barcode
3) Scan data code “8”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）



Exit setup

5) Scan“NEC25 Maximum decoding length”barcode
6) Scan data code “C”（in Appendix)）
7) Scan"Save code" barcode（in Appendix)）
8) Scan"Exit setup" barcode”

# 2.13 Standard 25

## 2.13.1 Enable/Disable scan

Enable

$>:S010192.<$

Disable

$>:S010092.<$

（Default）

## 2.13.2 CODE ID setting

STANDARD25 CODE ID setting

$>: R0014A2.<$

### 2.13.3 Parity settings

Standard 25 barcode data is not mandatory to include a check digit. If there is a check digit, it is the last character of the data. The check digit is a value calculated based on all data to check whether the data is correct.

Set to "None parity", the scanner will transmit all barcode data normally.

Set to "Check but not send check digit", the scanner will check according to the last 1 digit of the barcode. If the check is passed, it will transmit normal data except the check digit. If the check fails, it will prompt the barcode reading failure.

Set to "Check and send check digit", the scanner will check the last 1 digit of the barcode. If the check is passed, the check digit will be transmitted as the last 1 digit of normal data. If the check fails, it will be prompted to read the code. failure.

None parity

$>:S020092.<$

（Default）

Check but not send check digit

$>:S060292.<$

Check and send check digit

$>:S060692.<$

## 2.13.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, the barcode only recognizes the two lengths of Scan. If the maximum length is equal to the minimum length, only this length is supported.

Enter setup

STANDARD 25 Maximum decoding length

$>: R000D21.<$

STANDARD 25Maximum decoding length

$>: R000D31.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcode
2) Scan“STANDARD 25Maximum decoding length”barcode
3) Scan data code “8”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）
5) Scan“STANDARD 25 Maximum decoding length”barcode
6) Scan data code “C”（in Appendix)）
7) Scan"Save code" barcode（in Appendix)）
8) Scan"Exit setup" barcode”



Exit setup

Enter setup

# 2.14 DataLogic 25

## 2.14.1 Enable/Disable scan

Enable

$>:S01019F.<$

Disable

$>:S01009F.<$

（Default）

## 2.14.2 CODE ID setting

DataLogic25 CODE ID setting

$>: R001692.<$



Exit setup

Enter setup

## 2.14.3 Parity settings

None parity

$>:S02009F.<$

（Default）

Check but not send check digit

$>:S06029F.<$

Check and send check digit

$>:S06069F.<$



Exit setup

Enter setup

## 2.14.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

DataLogic25 Maximum decoding length

$>: R001022.<$

DataLogic25Maximum decoding length

$>: R001042.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcode
2) Scan“DataLogic 25Maximum decoding length”barcode
3) Scan data code “8”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）



Exit setup

5) Scan“DataLogic 25 Maximum decoding length”barcode

6) Scan data code “C”（in Appendix)）

7) Scan"Save code" barcode（in Appendix)）

8) Scan"Exit setup" barcode”

Enter setup

# 2.15 MSI-Plessey

## 2.15.1 Enable/Disable

Enable MSI-Plessey

$>:S010191.<$

Disable

$>:S010091.<$

（Default）default

## 2.15.2 CODE ID

Set MSI PLESSEY ID

$>: R001482.<$



Exit setup

## 2.15.3 Check Character Verification

MSI-Plessey

The check digit is not mandatory in the barcode data. If there is a Check Character, it is the last 1 or 2 characters of the data. The check digit is a value calculated based on all data to check whether the data is correct.

Set to "Disable None Parity ", the reader will transmit all barcode data normally.

None parityDisable

$>:S020191.<$

MOD10 One Check Character

$>:S180091.<$

（Default）default

MOD10/11Two Check Character

$>:S180891.<$

MOD10/10 校验 Two Check Character

$>:S181091.<$

Enter setup

Do Not Transmit MIS-Plessey Check Character

$>:S060291.<$

（Default）Default

Transmit MIS-Plessey Check Character

$>:S060691.<$



Exit setup

Enter setup

## 2.15.4 Set Lengths for MIS-Plessey

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

MSI_Plessey Maximum decoding length

$>: R000D01.<$

MSI_Plessey Minimum Length

$>: R000D11.<$

**Example: To decode MIS-Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup"
2) Scan“MSI_Plessey Minimum length
3) Scan “8”（in Appendix)）
4) Scan"Save code" （in Appendix)）
5) Scan“MSI_Plessey Maximum decoding length
6) Scan the MIS-Plessey Any Lenghts Barcode
7) Scan data “C”（in Appendix)）
8) Scan"Save code" barcode（in Appendix)）
9) Scan"Exit setup"



Exit setup

Enter setup

# 2.16 Plessey

## 2.16.1 Enable/Disable scan Enable/Disable Plessey

Enable Plessey

$>:S0101A0.<$

Disable Plessey

$>:S0100A0.<$

（Default）Default

## 2.16.2 CODE ID setting

Plessey CODE ID setting

$>: R0016F2.<$



Exit setup

## 2.16.3 Set Lengths for Plessey

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

Plessey Maximum decoding lengthAny Lengths

$>: R001062.<$

Plessey Minimum Decoding Length

$>: R001082.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan "Enter setup" barcodeScan
2) Plessey Minimum Decoding Length
3) Scan“8”（in Appendix)）
4) Scan"Save code"（in Appendix)）

Enter setup

5) Scan“Plessey Maximum decoding length”

6) Scan number barcodes “C”(in Appendix )

7) Scan"Save" barcode（in Appendix)）

8) Scan"Exit setup" barcode”



Exit setup

Enter setup

# 2.17 RSS-EXP /RSS_14/GS1 Data

## 2.17.1 RSS14Enable/Disable scan Enable/Disable

Enable RSS14

$>:S010190.<$

Disable RSS14

$>:S010090.<$

（Default）Default

## 2.17.2 RSS14 LIMIT Enable/Disable

Enable RSS14 LIMIT

$>:S0101A6.<$

Disable RSS14 LIMIT

$>:S0100A6.<$

（Default）



Exit setup

Enter setup

## 2.17.3 RSS14_STACK Enable/Disable

Enable RSS14_STACK

$>:S0101A7.<$

Disable RSS14_STACK

$>:S0100A7.<$

（Default）Default

## 2.17.4 Enable / Disable RSS EXPANDED

Enable RSS EXPANDED

$>:S0101A8.<$

Disable RSS EXPANDED

$>:S0100A8.<$

（Default）Default



Exit setup

## 2.17.5 RSS EXPANDED STACK Enable/Disable

Enable EXPANDED STACK

$>:S0101A9.<$

Disable EXPANDED STACK

$>:S0100A9.<$

（Default）Default

## 2.17.6 CODE ID setting

RSS GSICODE ID setting

$>: R001462.<$

Enter setup

# 2.18 Telepen

## 2.18.1 Enable/Disable

Enable Telepen

$>:S010194.<$

Disable Telepen

$>:S010094.<$

（Default）Defauly

## 2.18.2 CODE ID setting

TELEPEN CODE ID setting

$>: R0014C2.<$



Exit setup

Enter setup

# 2.19 Set Lengths for Telepen

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

TELEPEN Maximum decoding lengthAny Lengths

$>: R000D61.<$

TELEPENMaximum decoding lengthLengths Within Range

$>: R000D71.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan the Enter Setup

2) Scan“TelepenMaximum decoding length”

3) Scan “8”（in Appendix)）



Exit setup

Enter setup

4) Scan"Save " in Appendix)）

5) Scan“Telepen Maximum decoding length”

6) Scan “C”（in Appendix)）

7) Scan"Save code" barcode（in Appendix)

8) Scan"Exit setup"

# 2.20 Pharma Code One-Track

## 2.20.1 Enable/Disable

Enable Pharma-one

$>:S0101A1.<$

Disable Pharma-one

$>:S0100A1.<$

（Default）



Exit setup

## 2.20.2 CODE ID setting

Pharma_One CODE ID setting

$>: R001712.<$

Enter setup

## 2.20.3 Set Lengths for PharmaCode One-Track

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

Pharma_One Maximum decoding length

$>: R0010A2.<$

Pharma_OneMinimum decoding length

$>: R0010C2.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan the Enter Setup barcode
2) Scan“Pharma_OneMaximum decoding length
3) Scan “8”（in Appendix)）
4) Scan"Save " barcode（in Appendix)）
5) Scan“Pharma_One Maximum decoding length”
6) Scan the Pharma_One Any Lenghts Barcode
7) Scan “C”（in Appendix)）
8) Scan"Save " barcode（in Appendix)）
9) Scan"Exit setup"



Exit setup

Enter setup

# 2.21 PharmaCode Two-Track

## 2.21.1 Enable/Disable

Enable Pharma-Two

$>:S0101A2.<$

Disable Pharma-Two

$>:S0100A2.<$

（Default）

## 2.21.2 CODE ID setting

Pharma_Two CODE ID setting

$>: R001732.<$



Exit setup

Enter setup

## 2.21.3 Set Lengths for Pharma-Two

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

Pharma_Two Maximum decoding length

$>: R0010E2.<$

Pharma_Two Minimum decoding length

$>: R001102.<$

**Example: To decode Plessey Symbols Containing between 8 and 12 Characters**

1) Scan“ Enter setup”
2) Scan“Pharma_TwoMaximum decoding length”
3) Scan “8”（in Appendix)）
4) Scan"Save" （in Appendix)）
5) Scan“Pharma_Two Maximum decoding length
6) Scan “C”（in Appendix)）
7) Scan"Save "
8) Scan"Exit setup"



Exit setup

Enter setup

# 2.22 AZTEC

## 2.22.1 Enable/Disable

Enable AZTEC

$>:S01019A.<$

Disable AZTEC

$>:S01009A.<$

（Default）

## 2.22.2 Enable/Disable reverse

Disable Reverse

$>:S40009A.<$

（Default）

Enable Reverse

$>:S40409A.<$

（Default）



Exit setup

## 2.22.3 CODE ID setting

AZTEC CODE ID setting

$>: R0015E2.<$

## 2.22.4 Set Lengths for AZTEC

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported

AZTEC Maximum decoding length

$>: R000ED2.<$

AZTEC Minimum decoding length

$>: R000F02.<$

**Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes**

1) Scan "Enter setup" barcode
2) Scan“AZTEC Maximum decoding length”
3) Scan data code “4”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)
5) Scan“AZTEC Minimum decoding length”
6) Scan data code：“6” “4”（in Appendix)
7) Scan"Save" （in Appendix)
8) Scan"Exit setup"

Enter setup

# 2.23 CODABLOCK A

## 2.23.1 Enable/Disable

Enable

$>:S01019C.<$

Disable

$>:S01009C.<$

（Default）

## 2.23.2 CODE ID setting

CodaBlock_A CODE ID setting

$>: R001602.<$



Exit setup

Enter setup

## 2.23.3 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CodaBlock A Maximum decoding length

$>: R000F62.<$

CodaBlock A Minimum decoding length

$>: R000F82.<$

**Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes**

1) Scan "Enter setup"



Exit setup

Enter setup

2) Scan“CodaBlock A Minimum decoding length”

3) Scan “4”（in Appendix)）

4) Scan"Save " （in Appendix)）

5) Scan “CodaBlock A Maximum decoding length”barcode

6) Scan data code：“6” “4”（in Appendix)）

7) Scan"Save " （in Appendix)）

8) Scan"Exit setup"



Exit setup

# 2.24 CODABLOCK F

## 2.24.1 Enable/Disable

Enable

$>:S01019D.<$

Disable

$>:S01009D.<$

（Default）

## 2.24.2 CODE ID

CodaBlock_F CODE ID setting

$>: R001622.<$

### 2.24.3 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

CodaBlock F Maximum decoding length

$>: R000FA2.<$

CodaBlock F Minimum decoding length

$>: R000FC2.<$

**Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes**

1) Scan "Enter setup"

Enter setup

2) Scan“CodaBlock FMinimum decoding length”

3) Scan “4”（in Appendix)）

4) Scan"Save" in Appendix)）

5) Scan“CodaBlock F Maximum decoding length”barcode

6) Scan data code：“6” “4”（in Appendix)）

7) Scan"Save" （in Appendix)）

8) Scan"Exit setup" barcode”

# 2.25 Data Matrix

## 2.25.1 Enable/Disable

Enable

$>:S010197.<$

（Default）

Disable

$>:S010097.<$

（Default）



Exit setup

## 2.25.2 Enable/Disable reverse

Enable

$>:S020297.<$

（Default）

Disable

$>:S020097.<$

## 2.25.3 CODE ID setting

DATA MATRIX CODE ID setting

$>: R001582.<$

Enter setup

## 2.25.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

Data Matrix Maximum decoding length

$>: R000E12.<$

Data Matrix Minimum decoding length

$>: R000E32.<$

**Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes**

1) Scan "Enter setup"



Exit setup

2) Scan“Data Matrix Minimum decoding length”

3) Scan “4”（in Appendix)）

4) Scan"Save code" （in Appendix)）

5) Scan“Data Matrix Maximum decoding length

6) Scan data code：“6” “4”（in Appendix)）

7) Scan"Save code"（in Appendix)）

8) Scan"Exit setup"

Enter setup

# 2.26 MaxiCode

## 2.26.1 Enable/Disable

Enable

$>:S010199.<$

Disable

$>:S010099.<$

（Default）

## 2.26.2 CODE ID setting

MAXI CODE ID setting

$>: R0015C2.<$



Exit setup

Enter setup

## 2.26.3 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

MAXI Maximum decoding length

$>: R000E92.<$

MAXI minimum decoding length

$>: R000EB2.<$

**Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes**

1) Scan "Enter setup"



Exit setup

Enter setup

2) Scan“MAXI minimum decoding length”

3) Scan “4”（in Appendix)）

4) Scan"Save" （in Appendix)）

5) Scan“MAXI Maximum decoding length”

6) Scan：“6” “4”（in Appendix)）

7) Scan"Save" （in Appendix)）

8) Scan"Exit setup"



Exit setup

Enter setup

# 2.27 PDF417

## 2.27.1 Enable/Disable

Enable

$>:S010195.<$

（Default）

Disable

$>:S010095.<$

## 2.27.2 Enable/Disable reverse

Enable reverse

$>:S020295.<$

（Default）

Disable reverse

$>:S020095.<$



Exit setup

## 2.27.3 Setting CODE ID

PDF417 CODE ID setting

$>: R001522.<$

Enter setup

## 2.27.4 Set reading length limit

The user can set the maximum and minimum length of the barcode scan. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

PDF417 Maximum decoding length

$>: R000D82.<$

PDF417 Minimum decoding length

$>: R000DA2.<$

**Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes**

1) Scan "Enter setup"

2) Scan“PDF417Minimum decoding length”

3) Scan “4”（in Appendix)）

4) Scan"Save "（in Appendix)）

5) Scan“PDF417 Maximum decoding length”

6) Scan“6” “4”（in Appendix)）

7) Scan"Save " （in Appendix)）

8) Scan"Exit setup" barcode”

Enter setup

# 2.28 Micro PDF

## 2.28.1 Enable/Disable

Enable

$>:S0101A3.<$

Disable

$>:S0100A3.<$

（Default）

## 2.28.2 Enable/Disable Reverse

Disable Reverse

$>:S4000A3.<$

（Default）

Enable Reverse

$>:S4040A3.<$



Exit setup

## 2.28.3 Setting CODE ID

Micro_PDF CODE ID setting

$>: R001752.<$

Enter setup

## 2.28.4 Scan length setting

The user can set the maximum and minimum length of the barcode scan. If the length of the barcode taken by Scan does not match the effective length set, the Scan code is unsuccessful, and the scanner will not send the content of the barcode to the host.

Scan barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, the barcode only recognizes the two lengths of Scan. If the maximum length is equal to the minimum length, only this length is supported.

Micro PDF Maximum decoding length

$>: R001122.<$

Micro PDF Minimum decoding length

$>: R001142.<$

**Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes**

1) Scan "Enter setup" barcode
2) Scan“Micro PDF Minimum decoding length”barcode
3) Scan data code “4”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）



Exit setup

Enter setup

5) Scan“Micro PDF Maximum decoding length”barcode

6) Scan data code：“6” “4”（in Appendix)）

7) Scan"Save code" barcode（in Appendix)）

8) Scan"Exit setup" barcode”



Exit setup

Enter setup

# 2.29 QR Code

## 2.29.1 Enable/Disable scan

QR CODE Default Fixed open, so reading is without enable or disable

Fixed on

$>:S010196.<$

## 2.29.2 Enable/Disable Reverse

Enable Reverse

$>:S020296.<$

（Default）

Disable Reverse

$>:S020096.<$



Exit setup

## 2.29.3 CODE ID setting

QR CODE ID setting

$>: R001562.<$

## 2.29.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

QR Maximum decoding length

$>: R000DC2.<$

QRMaximum decoding length

$>: R000DF2.<$

**Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes**

1) Scan "Enter setup" barcode
2) Scan“QRMaximum decoding length”barcode
3) Scan data code “4”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）

Enter setup

5) Scan“QR Maximum decoding length”barcode

6) Scan data code：“6” “4”（in Appendix)）

7) Scan"Save code" barcode（in Appendix)）

8) Scan"Exit setup" barcode”

# 2.30 Micro QR

## 2.30.1 Enable/Disable scan

Enable

$>:S010198.<$

Disable

$>:S010098.<$

（Default）



Exit setup

Enter setup

## 2.30.2 Enable/Disable Reverse

Disable reverse

$>:S400098.<$

（Default）

Enable reverse

$>:S404098.<$

## 2.30.3 CODE ID setting

MICRO QR CODE ID setting

$>: R0015A2.<$



Exit setup

Enter setup

## 2.30.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

MICRO QR Maximum decoding length

$>: R000E52.<$

MICRO QR Minimum decoding length

$>: R000E72.<$

**Example: restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 20 bytes**

1) Scan "Enter setup"
2) Scan“Micro QR Minimum decoding length”
3) Scan data code “4”（in Appendix)）
4) Scan"Save code" barcode（in Appendix)）
5) Scan“Micro QR Maximum decoding length”
6) Scan ：“1” “4”（in Appendix)）
7) Scan"Save" （in Appendix)）
8) Scan"Exit setup"

Enter setup

# 2.31 Han Xin Code

## 2.31.1 Enable/Disable scan

Enable

$>:S01019B.<$

Disable

$>:S01009B.<$

（Default）

## 2.31.2 Enable/Disable reverse

Disable Reverse

$>:S02009B.<$

（Default）

Enable Reverse

$>:S02029B.<$



Exit setup

## 2.31.3 Setting CODE ID

Hanxin CODE ID setting

$>: R001772.<$

Enter setup

## 2.31.4 Scan length setting

The user can set the maximum and minimum length of barcode reading. If the read barcode length does not match the set effective length, the barcode reading is unsuccessful, and the scanner will not send the barcode content to the host.

The barcode length is composed of "minimum length" and "maximum length". If the maximum length is less than the minimum length, only barcodes of these two lengths can be read. If the maximum length is equal to the minimum length, only this length is supported.

HANXIN Maximum decoding length

$>: R000F22.<$

HANXIN Minimum decoding length

$>: R000F42.<$

**Example: Restrict the scanner to only read barcodes with a minimum of 4 bytes and a maximum of 100 bytes**

1) Scan "Enter setup"
2) Scan“HANXI Mnimum decoding length”
3) Scan “4”（in Appendix)）



Exit setup

4) Scan"Save code" （in Appendix)）

5) Scan“HANXIN Maximum decoding length”

6) Scan ：“6” “4”（in Appendix)）

7) Scan"Save " （in Appendix)）

8) Scan"Exit setup" barcode”

# 3 Batch processing

When multiple settings are required to read the device, it may be cumbersome to set one by one. At this time, we can save all the information that needs to be set as a barcode information, and the device can complete multiple settings after reading the barcode.

The following are the guidelines for batch processing:

1. The format of each command in the batch command is command + parameter.

2. The command ends with a semicolon. Note that there can be no spaces between each command.

3. Make the command into a QR code in the coding software.

4. The batch command starts with $>:BATCHST.<$ and starts with $>:BATCHET.<$

**Note：**

The batch instruction cannot contain data code. Where data codes are

needed, specify them by command + parameters.

For example: Set [Set Custom Prefix] to [A], it will be expressed as follows in batch processing: $>:R000505.<$41;

| classification | instruction | parameter | =CONCATENATE(B3,C3) | Do you have to |
|---|---|---|---|---|
| Start instruction | $>:BATCHST.<$ | | $>:BATCHST.<$ | Must indicate that the batch instruction starts |
| Open barcode | $>:S01010F.<$ | | $>:S01010F.<$; | |
| All types of prefixes and suffixes are allowed | $>:S80804E.<$ | | $>:S80804E.<$; | |
| Allow adding custom prefixes | $>:S04044E.<$ | | $>:S04044E.<$; | |
| Set custom prefix | $>:R000505.<$ | 41 | $>:R000505.<$41; | |
| Close barcode | $>:S01000F.<$ | | $>:S01000F.<$; | |
| End of instruction | $>:BATCHET.<$ | | $>:BATCHET.<$; | Must indicate that the batch instruction End |

The synthetic instructions are as follows：

**$>:BATCHST.<$$>:S01010F.<$;$>:S80804E.<$;$>:S04044E.<$;$>:R000505.<$41;$>:S01000F.<$;$>:BATCHET.<$;**

# 4 Appendix

## 4.1 System default setting table

| Parameter Name | | Default setting | Remark |
|---|---|---|---|
| **System settings** | | | |
| Barcode function | | Off | |
| Barcode information | | Not send | |
| Scan mode | | Single mode | |
| Single mode | Single read time | 3000ms | |
| Continuous mode | Single read time | 3000ms | |
| | Read interval time | 1000ms | |
| Trigger mode | | Default (Command +Key） | Commands and keys are always on |
| Sensitivity mode | | High | |
| Sleep mode | | Disable | |
| Sleep time | | 5000ms | |
| Reading Success Tips | | Enable | |
| Reading success VF | | Medium | |
| Reading success tips time | | 80ms | |
| Reading success LED | | Enable | |

Enter setup

| | | |
|---|---|---|
| On beeper | Enable | |
| Indicate month | Beeper | |
| Illumination | Read code on | |
| Aim light | Read code on | |

| Parameter Name | Default setting | Remark |
|---|---|---|
| **Interface setting** | | |
| Interface | USB HID-KBW | |

| | | | |
|---|---|---|---|
| USB | Button delay time | Button not delay time | |
| | Country/keyboard language | U.S.A keyboard | |
| | HID Send Mode | Send Original data | |
| **Rs232** | Baud rate | 9600 | |
| | Parity Bit | None parity | |
| | Data Bits | 8bits | |

| Parameter Name | Default setting | Remark |
|---|---|---|
| **Data format setting** | | |



Exit setup

| | | |
|---|---|---|
| Enable all Prefix and Suffix | ON | |
| Set Prefix steps | CODEID+Custom +AIMID | |
| Add custom prefix | Off | Up to prefix 5 characters |
| Add AIMID prefix | Off | ]Cm |
| Add CODE ID prefix | Off | 1or2 characters, uppercase or lowercase |
| Add Custom suffix | Off | Max suffix 5 characters |
| Add End suffix | On--0x0D | Enable ， Enter |
| NGR Information | Not send | |
| Scan code customization | Non | |

# 4.2 Barcode default setting table

| Parameter Name | Default Setting | Remark |
|---|---|---|
| All reverse code | Disable | |
| All reverse 2D code | Enable | |
| ***Code128/AIM128/EAN128/NL128*** | | |
| Enable | On | |
| Minimum length | 2 | |
| Maximum length | 80 | |
| ***UPC/EAN/ISSN/ISBN*** | | |
| Enable | On | |
| 2 bits additional code | read | |
| 5 bits additional code | Read | |
| Must have additional code | Not required | |
| Extended to 13 bits | Not extended | |
| ***CODABAR*** | | |
| Enable | On | |

| Parameter Name | Default Setting | Remark |
|---|---|---|
| Parity | OFF | OFF:According to the bar code content, if the bar code contains check, send check; do not contain check, do not send；<br>ON：At this point, the check bit will be used to check the decoded data, send or not according to the sending switch decision |
| Minimum length | 5 | |
| Maximum length | 60 | |
| ***CODE39*** | | |
| Enable | On | |
| Parity | OFF | |
| Support extension | OFF | |
| Support Full ASCII | On | |
| Minimum length | 1 | |
| Maximum length | 50 | |
| ***CODE 93*** | | |

| Parameter Name | Default Setting | Remark |
|---|---|---|
| Enable | On | |
| Parity | OFF | |
| Minimum length | 5 | |
| Maximum length | 60 | |
| ***CODE 11*** | | |
| Enable | OFF | |
| Parity | OFF | |
| Minimum length | 1 | |
| Maximum length | 80 | |
| ***ITF-25/ITF-14/ITF-6/ Deutsche12/ Deutsche14*** | | |
| Enable | On | |
| Parity | OFF | |
| Minimum length | 6 | |
| Maximum length | 100 | |
| ***INDUSTRIAL 25*** | | |
| Enable | OFF | |
| Parity | OFF | |
| Minimum length | 1 | |
| Maximum length | 80 | |

| Parameter Name | Default Setting | Remark |
|---|---|---|
| ***MATRIX 25*** | | |
| Enable | OFF | |
| Parity | OFF | |
| Minimum length | 6 | |
| Maximum length | 80 | |
| ***Japan Matrix 25/NEC25*** | | |
| Enable | OFF | |
| Parity | OFF | |
| Minimum length | 1 | |
| Maximum length | 80 | |
| ***STANDARD 25*** | | |
| Enable | OFF | |
| Parity | OFF | |
| Minimum length | 1 | |
| Maximum length | 80 | |
| ***DATALOGIC 25*** | | |
| Enable | OFF | |
| Parity | OFF | |
| Minimum length | 1 | |

| Parameter Name | Default Setting | Remark |
|---|---|---|
| Maximum length | 1024 | |
| ***MSI_PLESSEY*** | | |
| Enable | OFF | |
| Parity | 一位校验，MOD10 | |
| Parity character | 不发送 | |
| Minimum length | 1 | |
| Maximum length | 80 | |
| ***PLESSEY*** | | |
| Enable | OFF | |
| Minimum length | 1 | |
| Maximum length | 80 | |
| ***RSS-EXP/RSS_14/GS1 Data*** | | |
| Enable | OFF | |
| ***TELEPEN*** | | |
| Enable | OFF | |
| Minimum length | 1 | |
| Maximum length | 80 | |
| ***PharmaCode One-Track*** | | |
| Enable | OFF | |

| Parameter Name | Default Setting | Remark |
|---|---|---|
| Minimum length | 1 | |
| Maximum length | 80 | |
| ***PharmaCode Two-Track*** | | |
| Enable | OFF | |
| Minimum length | 1 | |
| Maximum length | 80 | |
| ***AZTEC*** | | |
| Enable | OFF | |
| Minimum length | 1 | |
| Maximum length | 1024 | |
| ***CODABLOCK A*** | | |
| Enable | OFF | |
| Minimum length | 1 | |
| Maximum length | 1024 | |
| ***CODABLOCK F*** | | |
| Enable | OFF | |
| Minimum length | 1 | |
| Maximum length | 1024 | |
| ***DATA MATRIX*** | | |

| Parameter Name | Default Setting | Remark |
|---|---|---|
| Enable | On | |
| Reverse | On | |
| Minimum length | 1 | |
| Maximum length | 3116 | |
| ***MAXI*** | | |
| Enable | OFF | |
| Minimum length | 1 | |
| Maximum length | 1024 | |
| ***PDF417*** | | |
| Enable | On | |
| Reverse | On | |
| Minimum length | 1 | |
| Maximum length | 2710 | |
| ***MICRO PDF*** | | |
| Enable | OFF | |
| Minimum length | 1 | |
| Maximum length | 1024 | |
| ***QR*** | | |
| Enable | On | |

| Parameter Name | Default Setting | Remark |
|---|---|---|
| Reverse | On | |
| Minimum length | 1 | |
| Maximum length | 4096 | |
| ***MICRO QR*** | | |
| Enable | OFF | |
| Minimum length | 1 | |
| Maximum length | 35 | |
| ***HANXIN*** | | |
| Enable | OFF | |
| Minimum length | 1 | |
| Maximum length | 1024 | |

# 4.3 AIM IDlist

| Barcode types | AIM ID | Instruction |
|---|---|---|
| Code128/AIM128/EAN128/NL128 | ]C0 | Common Code 128 |
| UPC/EAN/ISSN/ISBN | ]E0 | Common EAN data |
| | ]E1 | EAN data to add 2 bit additional code |
| | ]E2 | EAN data to add 5 bits addition code |
| Codabar | ]F0 | Standard data packets, no special processing |
| | ]F1 | Used in the management of blood centers in the United States |
| | ]F2 | Check and send check characters |
| | ]F4 | Check, but do not send check characters |
| Code 39 | ]A0 | None parity，no Full ASCII expansion. All data sent |
| | ]A1 | MOD 43Check， send check characters |
| | ]A3 | MOD 43 Check, but do not send check characters |
| | ]A4 | Full ASCII expansion，but None parity |
| | ]A5 | Expansion， MOD43check ， send check characters |
| | ]A7 | Expansion，MOD43Check ，but do not send check characters |

| Barcode types | AIM ID | Instruction |
|---|---|---|
| CODE 93 | ]G0 | Common data |
| Code11 | ]H0 | MOD11Single Character Check, send check characters |
| | ]H1 | MOD11/MOD11 double character check, and send check characters |
| | ]H3 | Check, but do not send check characters |
| | ]H9 | 不校验 |
| ITF-25/ITF-14/ITF-6/ Deutsche12/ Deutsche14 | ]I0 | None parity |
| | ]I1 | Check and send check characters |
| | ]I3 | Check, but do not send check characters |
| Industrial 2 of 5 | ]S0 | NON |
| Matrix 25 | ]X0 | Product specific definitions |
| | ]X1 | None parity |
| | ]X2 | MOD10Check, send check characters |
| | ]X3 | MOD11Check, send check characters |
| Japan Matrix25/NEC25 | ]Z0 | Common data |
| Standard 25 | ]Z0 | Common data |
| Datalogic 25 | ]Z0 | Common data |
| MSI-Plessey | ]M0 | MOD10Check, send check characters |

| Barcode types | AIM ID | Instruction |
|---|---|---|
| | ]M1 | MOD10Check, but do not send check characters |
| | ]M8 | Tow parity |
| | ]M9 | Non Parity |
| Plessey | ]P0 | Common data |
| RSS-EXP /RSS_14/GS1 | ]e0 | Common data |
| Telepen | ]B0, ]B1,]B2,]B4 | Common data |
| PharmaCode One-Track | | |
| PharmaCode Two-Track | | |
| AZTEC | ]z0-9,A-C | Common data |
| CodaBlock A | ]Z0 | Common data |
| CodaBlock F | ]Z0 | Common data |
| Data Matrix | ]d0 | ECC00 to ECC140 version |
| | ]d1 | ECC200 common version |
| | ]d2 | ECC200，FNC1 in No.1 or No.5 |
| | ]d3 | ECC200，FNC1 in No.2 or No.6 |
| | ]d4 | ECC200，included ECI data |

| Barcode types | AIM ID | Instruction |
|---|---|---|
| | ]d5 | ECC200，FNC in No.1 or No.5, or included ECI data. |
| | ]d6 | ECC200，FNC1 in No.2 or No.5 orr Included ECI data |
| MaxiCode | ]U0 | Common data |
| | ]U1 | Common data |
| | ]U2 | Common data |
| | ]U3 | Common data |
| PDF417 | ]L0 | 1994PDF417 standard |
| Micro PDF417 | | |
| QR | ]Q0 | Model 1version |
| | ]Q1 | 2005standard version ， no ECI data |
| | ]Q2 | 2005 standard version ， have ECI data |
| | ]Q3 | 2005standard version ， no ECI data，FNC1 in No.1 |
| | ]Q4 | 2005Standard version,have ECI data，FNC1in No.2 |
| | ]Q5 | 2005Standard version ， no ECI data，FNC1 in No.1 |
| | ]Q6 | 2005standard，have ECI data，FNC1in No.2 |
| Micro QR | ]Z0 | Common data |

| Barcode types | AIM ID | Instruction |
|---|---|---|
| HAN XIN | | |

## 4.4 Code ID list

| Barcode type | Code ID |
|---|---|
| Code128/AIM128/EAN128/NL128 | j |
| UPC/EAN/ISSN/ISBN | d |
| CODABAR | a |
| CODE 39 | b |
| CODE 93 | i |
| CODE 11 | H |
| ITF-25/ITF-14/ITF-6/ Deutsche12/ Deutsche14 | e |
| Industrial 25 | D |
| MATRIX25 | v |
| Japan Matrix 25/NEC 25 | q |
| Standard 25 | s |
| Datalogic 25 | w |
| MSI-Plessey | m |
| Plessey | p |

| | |
|---|---|
| RSS-EXP /RSS_14/GS1 Data | y |
| Telepen | t |
| Pharma_One | y |
| Pharma_Two | Y |
| AZTEC | Z |
| Codablock A | h |
| Codablock F | k |
| Data Matrix | u |
| Maxi CODE | x |
| PDF417 | r |
| Micro PDF | R |
| QR code | s |
| Micro QR | S |
| HAN XIN | g |

# 4.5 ASCII code

| HEX | Decimal base | Character |
|---|---|---|
| 00 | 0 | NUL (Null char.) |
| 01 | 1 | SOH (Start of Header) |
| 02 | 2 | STX (Start of Text) |
| 03 | 3 | ETX (End of Text) |
| 04 | 4 | EOT (End of Transmission) |
| 05 | 5 | ENQ (Enquiry) |
| 06 | 6 | ACK (Acknowledgment) |
| 07 | 7 | BEL (Bell) |
| 08 | 8 | BS (Backspace) |
| 09 | 9 | HT (Horizontal Tab) |
| 0a | 10 | LF (Line Feed) |
| 0b | 11 | VT (Vertical Tab) |
| 0c | 12 | FF (Form Feed) |
| 0d | 13 | CR (Carriage Return) |
| 0e | 14 | SO (Shift Out) |
| 0f | 15 | SI (Shift In) |
| 10 | 16 | DLE (Data Link Escape) |
| 11 | 17 | DC1 (XON) (Device Control 1) |

| HEX | Decimal base | Character |
|---|---|---|
| 12 | 18 | DC2 (Device Control 2) |
| 13 | 19 | DC3 (XOFF) (Device Control 3) |
| 14 | 20 | DC4 (Device Control 4) |
| 15 | 21 | NAK (Negative Acknowledgment) |
| 16 | 22 | SYN (Synchronous Idle) |
| 17 | 23 | ETB (End of Trans. Block) |
| 18 | 24 | CAN (Cancel) |
| 19 | 25 | EM (End of Medium) |
| 1a | 26 | SUB (Substitute) |
| 1b | 27 | ESC (Escape) |
| 1c | 28 | FS (File Separator) |
| 1d | 29 | GS (Group Separator) |
| 1e | 30 | RS (Request to Send) |
| 1f | 31 | US (Unit Separator) |
| 20 | 32 | SP (Space) |
| 21 | 33 | ! (Exclamation Mark) |
| 22 | 34 | " (Double Quote) |
| 23 | 35 | # (Number Sign) |
| 24 | 36 | $ (Dollar Sign) |
| 25 | 37 | % (Percent) |

| HEX | Decimal base | Character |
|---|---|---|
| 26 | 38 | & (Ampersand) |
| 27 | 39 | ` (Single Quote) |
| 28 | 40 | ( (Right / Closing Parenthesis) |
| 29 | 41 | ) (Right / Closing Parenthesis) |
| 2a | 42 | * (Asterisk) |
| 2b | 43 | + (Plus) |
| 2c | 44 | , (Comma) |
| 2d | 45 | - (Minus / Dash) |
| 2e | 46 | . (Dot) |
| 2f | 47 | / (Forward Slash) |
| 30 | 48 | 0 |
| 31 | 49 | 1 |
| 32 | 50 | 2 |
| 33 | 51 | 3 |
| 34 | 52 | 4 |
| 35 | 53 | 5 |
| 36 | 54 | 6 |
| 37 | 55 | 7 |
| 38 | 56 | 8 |
| 39 | 57 | 9 |

| HEX | Decimal base | Character |
|---|---|---|
| 3a | 58 | : (Colon) |
| 3b | 59 | ; (Semi-colon) |
| 3c | 60 | < (Less Than) |
| 3d | 61 | = (Equal Sign) |
| 3e | 62 | > (Greater Than) |
| 3f | 63 | ? (Question Mark) |
| 40 | 64 | @ (AT Symbol) |
| 41 | 65 | A |
| 42 | 66 | B |
| 43 | 67 | C |
| 44 | 68 | D |
| 45 | 69 | E |
| 46 | 70 | F |
| 47 | 71 | G |
| 48 | 72 | H |
| 49 | 73 | I |
| 4a | 74 | J |
| 4b | 75 | K |
| 4c | 76 | L |
| 4d | 77 | M |

| HEX | Decimal base | Character |
|---|---|---|
| 4e | 78 | N |
| 4f | 79 | O |
| 50 | 80 | P |
| 51 | 81 | Q |
| 52 | 82 | R |
| 53 | 83 | S |
| 54 | 84 | T |
| 55 | 85 | U |
| 56 | 86 | V |
| 57 | 87 | W |
| 58 | 88 | X |
| 59 | 89 | Y |
| 5a | 90 | Z |
| 5b | 91 | [ (Left / Opening Bracket) |
| 5c | 92 | \ (Back Slash) |
| 5d | 93 | ] (Right / Closing Bracket) |
| 5e | 94 | ^ (Caret / Circumflex) |
| 5f | 95 | _ (Underscore) |
| 60 | 96 | ' (Grave Accent) |
| 61 | 97 | a |

| HEX | Decimal base | Character |
|---|---|---|
| 62 | 98 | b |
| 63 | 99 | c |
| 64 | 100 | d |
| 65 | 101 | e |
| 66 | 102 | f |
| 67 | 103 | g |
| 68 | 104 | h |
| 69 | 105 | i |
| 6a | 106 | j |
| 6b | 107 | k |
| 6c | 108 | l |
| 6d | 109 | m |
| 6e | 110 | n |
| 6f | 111 | o |
| 70 | 112 | p |
| 71 | 113 | q |
| 72 | 114 | r |
| 73 | 115 | s |
| 74 | 116 | t |
| 75 | 117 | u |
| 76 | 118 | v |

| HEX | Decimal base | Character |
|---|---|---|
| 77 | 119 | w |
| 78 | 120 | x |
| 79 | 121 | y |
| 7a | 122 | z |
| 7b | 123 | { (Left/ Opening Brace) |
| 7c | 124 | \| (Vertical Bar) |
| 7d | 125 | } (Right/Closing Brace) |
| 7e | 126 | ~ (Tilde) |
| 7f | 127 | DEL (Delete) |

# 4.6 CTRL+mode output

| Non-printable ASCII control characters | | | Keyboard Control + ASCII (CTRL+X) Mode | | |
|---|---|---|---|---|---|
| DEC | HEX | Char | Control + X Mode Off | Windows Mode Control + X Mode On | |
| | | | | CTRL + X | CTRL + X function |
| 0 | 00 | NUL | NULL | CTRL+ @ | |
| 1 | 01 | SOH | NP Enter | CTRL+ A | Select all |
| 2 | 02 | STX | Caps Lock | CTRL+ B | Bold |
| 3 | 03 | ETX | Right Arrow | CTRL+ C | Copy |
| 4 | 04 | EOT | Up Arrow | CTRL+ D | Bookmark |
| 5 | 05 | ENQ | NULL | CTRL+ E | Center |
| 6 | 06 | ACK | NULL | CTRL+ F | Find |
| 7 | 07 | BEL | Enter | CTRL+ G | |
| 8 | 08 | BS | Left Arrow | CTRL+ H | History |
| 9 | 09 | HT | Tab | CTRL+ I | Italic |
| 10 | 0A | LF | Down Arrow | CTRL+ J | Justify |
| 11 | 0B | VT | Tab | CTRL+ K | hyperlink |
| 12 | 0C | FF | Backspace | CTRL+ L | list, left align |
| 13 | 0D | CR | Enter / Ret | CTRL+ M | |
| 14 | 0E | SO | Insert | CTRL+ N | New |
| 15 | 0F | SI | ESC | CTRL+ O | Open |
| 16 | 10 | DLE | F11 | CTRL+ P | Print |
| 17 | 11 | DC1 | Home | CTRL+ Q | Quit |
| 18 | 12 | DC2 | PrtScn | CTRL+ R | |

| | | | | | |
|---|---|---|---|---|---|
| 19 | 13 | DC3 | Delete | CTRL+ S | Save |
| 20 | 14 | DC4 | Tab+shift | CTRL+ T | |
| 21 | 15 | NAK | F12 | CTRL+ U | |
| 22 | 16 | SYN | F1 | CTRL+ V | Paste |
| 23 | 17 | ETB | F2 | CTRL+ W | |
| 24 | 18 | CAN | F3 | CTRL+ X | |
| 25 | 19 | EM | F4 | CTRL+ Y | |
| 26 | 1A | SUB | F5 | CTRL+ Z | |
| 27 | 1B | ESC | F6 | CTRL+ [ | |
| 28 | 1C | FS | F7 | CTRL+ \ | |
| 29 | 1D | GS | F8 | CTRL+ ] | |
| 30 | 1E | RS | F9 | CTRL+ ^ | |
| 31 | 1F | US | F10 | CTRL+ - | |

# 4.7 Data code

## 0 ~ 9

**$>:N000000.<$**

**0**

**$>:N000001.<$**

**1**

Enter setup

$>:N000002.<$

2

$>:N000003.<$

3

$>:N000004.<$

4

$>:N000005.<$

5

$>:N000006.<$

6

$>:N000007.<$

7



Exit setup

**$>:N000008.<$**

**8**

**$>:N000009.<$**

**9**

## A ~ F

**$>:N00000A.<$**

**A**

**$>:N00000B.<$**

**B**



Enter setup

**$>:N00000C.<$**

**C**

**$>:N00000D.<$**

**D**

**$>:N00000E.<$**

**E**

**$>:N00000F.<$**

**F**



Exit setup

## Save or Cancel

$>:N000012.<$

0X12

Save

$>:N000010.<$

0X10

Cancel previous read one data

$>:N000011.<$

0X11

Cancel previous all data