RM1960
User's Manual

V3.6

Table of Contents

Enter setup

1 Factory Defaults

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

Restore All Factory Defaults
$>:S010186.<$

2 User Default Settings

The user can set the required configuration according to the use environment, and then scan "Keep Current Settings" to save the current configuration as the user default configuration. If the user default settings have been set before, this operation will replace the original user default settings information. The initial user default configuration can be restored by scanning "Restore User Default Settings"

Keep Current Settings
$>:SVDEF02.<$

Restore User Default Settings
$>:S020286.<$

Exit setup

Enter setup

3 Output Settings

3.1 USB Interface 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.

3.1.1 USB HID

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
$>: S0F0516.<$

Upload Data Delay Setting

Exit setup

Enter setup

No Delay
$>:SC00037.<$
(Default)

Delay (20ms)
$>:SC04037.<$

Delay (40ms)
$>:SC0C037.<$

$>:R0001E2.<$
Delay setting
(Any interval)

The data delay is actually delayed according to the character, and the unit is 1ms (Milliseconds).

Example: Set the delay to 10ms (data code is expressed in hexadecimal)

1) Scan code“Enter Setup”
2) Scan code “Delay setting”
3) Scan Data code “0” “A”（in Appendix）
4) Scan code “Save ”（in Appendix）
5) Scan code “Exit Setup”

3.1.2 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.

Exit setup

Enter setup

USB Virtual Com

$>: S0F0216.<$

Exit setup

Enter setup

3.2 Rs232 Interface Settings

Serial communication interface is a common way to connect scanner and host equipment (such as PC, POS and other equipment). When using the serial communication interface, the scanner and the host device must match the communication parameter configuration completely to ensure smooth communication and correct content.

Rs232

$>: S0F0016.<$

Exit setup

Enter setup

3.2.1 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
$>:S0F0347.<$
（Default）

14400bps
$>:S0F0447.<$
（Not support）

19200bps
$>:S0F0547.<$

38400bps
$>:S0F0647.<$

57600bps
$>:S0F0747.<$

115200bps
$>:S0F0847.<$

3.2.2 Parity

No Parity
$>:S060046.<$
（Default）

Odd Parity
$>:S060446.<$
（Not currently supported）

Exit setup

Even Parity

$>:S060646.<$ （Not currently supported）

3.2.3 Stop Bits

2 Stop Bits

$>:S010146.<$

（Not currently supported）

1 Stop Bit

$>:S010046.<$

（Default）

3.2.4 Data Bits

8 Data Bits

$>:S080846.<$

（Default）

7 Data Bits

$>:S080046.<$

（Not currently supported）

3.2.5 Flow Control

Non

$>:S600016.<$

（Default）

RTS Flow Control

$>:S602016.<$

（Not currently supported）

Enter setup

CTR Flow Control

$>:S604016.<$

（Not currently supported）

CTS&RTS Flow control

$>:S606016.<$

（Not currently supported）

3.3 Keyboard Language

The keyboard (key arrangement, symbols, etc.) corresponding to different national languages are not the same. The scanner can be virtualized into keyboard standards of different countries according to needs, and the default is the US keyboard

** U.S. (English)
Default
$>:S1F001D.<$

Belgium
$>:S1F011D.<$

Brazil
$>:S1F021D.<$

Canada (French)
$>:S1F031D.<$

Czech slovakia
$>:S1F041D.<$

Denmark
$>:S1F051D.<$

Finland (Swedish)
$>:S1F061D.<$

France
$>:S1F071D.<$

Germany/ Austria
$>:S1F081D.<$

Greece_
$>:S1F091D.<$

Exit setup

Enter setup

Hungary
$>:S1F0A1D.<$

Israel (Hebrew)
$>:S1F0B1D.<$

Italy
$>:S1F0C1D.<$

Latin America
$>:S1F0D1D.<$

Netherlands (Dutch)
$>:S1F0E1D.<$

Norway
$>:S1F0F1D.<$

Poland
$>:S1F101D.<$

Portugal
$>:S1F111D.<$

Romania
$>:S1F121D.<$

Russia
$>:S1F131D.<$

Slovakia
$>:S1F151D.<$

Spain
$>:S1F161D.<$

Exit setup

Enter setup

Sweden
$>:S1F171D.<$

Switzerland
$>:S1F181D.<$

Turkey_F
$>:S1F191D.<$

Turkey_Q
$>:S1F1A1D.<$

Exit setup

UK

$>:S1F1B1D.<$

Japan

$>:S1F1C1D.<$

Italy 142

$>:S1F1F1D.<$

Thailand

$>:S203F1D.<$

3.4 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 in **Keyboard Language**, and the

Enter setup

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
$>:SF0100C.<$

Disable Chinese output
$>:SHTCT03.<$

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

3.5 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
$>:S01002A.<$

3.6 Invisible Character Output Control Settings

Invisible character output enable and disable

Enable
$>:S070236.<$

Disable
$>:S070736.<$
（**Default**）

F1-F12 Function Keys Settings

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

Exit setup

Enter setup

Output function keys
$>:S070036.<$
（Default）

Output CTRL key combination
$>:S070136.<$

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

1) Scan code "Enter setup"
2) Scan code "Allow adding custom prefixes"
3) Scan code "Set Custom Prefix"
4) Scan Data code: "1" "D" (in Appendix)
5) Scan code "Save" (in Appendix)
6) Scan code "Output CTRL key combination"
7) Scan code "Exit setup"

3.7 Keyboard Mode Settings

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
$>:S030137.<$

Exit setup

Enter setup

（**Not support**）

Analog numeric keypad

Analog numeric keypad: Before sending the result of scan code , it will first judge whether num lock is turned on. If it is not turned on, then send a

Lock

No Case Conversion

$>:S380037.<$

command to turn it on.

Analog numeric keypad

$>:S040437.<$

Letter case interchange

$>:S380837.<$

NO simulate the numeric keypad

$>:S040037.<$

Default

Convert All to Upper Case

$>:S382037.<$

Convert All to Lower Case

$>:S383037.<$

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 to consistent with the internal code output from the scanner, otherwise it may be garbled. When the keyboard can not output standard ASCII characters, you can choose to use ALT+number instead of output.

Exit setup

Not output the leading 0
$>:S080036.<$

Output leading 0
$>:S080836.<$
（**Default**）

Keyless ASCII is not output
$>:S100036.<$
（**Default**）

ALT+Numbers instead of keyless ASCII
$>:S101036.<$

4 System Settings

4.1 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）

4.2 Scan Mode

4.2.1 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.

Enter setup

*Manual mode(Command+Button)

$>: S03001A.<$ （Default）

4.2.2 Automatic Scanning Mode

In the induction mode, you can activate the scanner to work by pressing a button, sending a command, or auto-sensing.

Automatic Mode(Command+Button+Auto-sensing)

$>: S03011A.<$

4.2.3 Continuous Scanning Mode

Continuous Scanning Mode，when reading success or after the end of single code reading time, will automatically start the next reading. Start or end scanning until the button is pressed and released (buttons and commands can be terminated and reopened)

Continuous Mode (buttons + commands)

$>: S03021A.<$

Exit setup

Enter setup

Decode Session Timeout

Decode Session Timeout
$>: R000302.<$

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

1) Scan code "**Enter setup**"
2) Scan code "Decode Session Timeout"
3) Scan Data code "1" （in Appendix）
4) Scan Data code "F" （in Appendix）
5) Scan Data code "4" （in Appendix）
6) Scan code "**Save**" (in Appdendix)
7) Scan code"**Exit setup**"

Single Reading Time

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

Single reading timeout
$>: R000064.<$

Exit setup

Enter setup

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

1) Scan code "**Enter setup**"
2) Scan code "Single reading timeout"
3) Scan code “F” (in Appdendix)
4) Scan code “A” (in Appdendix)
5) Scan code “0” (in Appdendix)
6) Scan code "**Save**" (in Appdendix)
7) Scan code "**Exit setup**"

Timeout between Decodes (Same Barcode)

The same barcode reading interval can be controlled by setting the same barcode delay

Disable Timeout between Decodes (Same Barcode)

Enable Timeout between Decodes (Same Barcode) $>:S101017.<$

$>:S100017.<$

Same code reading time setting

$>: R000322.<$

Exit 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
$>:S3F3034.<$

4.3 Sleep Settings

4.3.1 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
$>:S202017.<$

Enter setup

4.3.2 Sleep Time Setting

Sleep time

$>:R000012.<$

Sleep duration refers to how long it goes to sleep after no action, or how long to wake up after going to sleep.

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

1) Scan code "**Enter setup**"
2) Scan code “Sleep time”
3) Scan Data code “3” (in Appdendix)
4) Scan Data code “E” (in Appdendix)
5) Scan Data code “8” (in Appdendix)
6) Scan code "**Save**" (in Appdendix)
7) Scan code "**Exit setup**"

4.4 Scan Successfully Setting

4.4.1 Enable /Disable Beep

Enable prompt tone for successful reading (Setting code)

$>:S020229.<$

（Default）

Disable prompt tone for successful reading (Setting Code)$

>:S020029.<$

Exit setup

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

$>:S040429.<$

（Default）

Disable prompt tone for successful reading (not setting code)

$>:S040029.<$

4.4.2 Enable/Disable the Same Code Beep

Enable

$>:S010135.<$

Disable

$>:S010035.<$

（Default）

4.4.3 Beep Frequency

Low

$>:SFFDA27.<$

Medium

$>:SFF4B27.<$

Loud

$>:SFF2527.<$

（Default）

4.4.4 Prompt Tone Duration

40ms (Short)

$>:SFF1F28.<$

80ms(Middle)

$>:SFF3E28.<$

（Default）

120ms (Long)

$>:SFF5D28.<$

4.4.5 Read Tone Sound

Low

$>:S030018.<$

Medium

$>:S030118.<$

Loud

$>:S030218.<$

Enter setup

4.4.6 Enable/Disable the Reminder Light（LED）

Enable the LED
$>:S101029.<$
（Default）

Disable the LED
$>:S100029.<$

4.4.7 Enable /Disable Same Code LED

Enable
$>:S020235.<$

Disable
$>:S020035.<$
（Default）

4.5 Other Sound Settings

4.5.1 Enable/Disable Power tone

* Enable Power tone
$>:S010129.<$
（Default）

Disable Power tone
$>:S010029.<$

Buzzer prompt
$>:S202029.<$
（Default）

Exit setup

Enable unknown character sound
$>:S080829.<$

Disable unknown character beep
$>:S080029.<$

4.5.2 Mute Setting

Disable Mute
$>:S404000.<$

Enable Mute
$>:S400000.<$

4.6 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 setting

4.6.1 Enable Image extension setting

$>:S010123.<$

$>:S010023.<$

Enter setup

Enable Image extension setting

Disable Image extension setting
Disable（Default）

4.6.2 Image sharpening

$>:S020223.<$
Enable Imagesharpening
（Default）

$>:S020023.<$
Disable Image sharpening

4.6.3 Decode Timeout Setting

Decode timeout: Applied 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

1D DecodeTimeout Setting

$>:R001A04.<$
1D decode timeout time

Exit setup

Enter setup

2D DecodeTimeout Setting

$>:S02020B.<$
Enable 2D code timeout
（Default）

$>:S02000B.<$
Disable 2D code timeout

2D Decode Timeout Setting

$>:R001A44.<$
2D Decode timeout time

4.6.4 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）

Exit setup

Enter setup

4.7 Lighting Settings

4.7.1 Illumination

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

Off
$>:S0C0000.<$

Reading On
$>:S0C0400.<$

Always On
$>:S0C0800.<$

4.7.2 Aiming

Off
$>:S300000.<$

Reading On(Lit when reading, Default)
$>:S301000.<$

Always On
$>:S302000.<$

4.7.3 Setting of Automatic Lights for Dark Light

$>:S020021.<$

Enable
(Default)

$>:S020221.<$

Disable

Exit setup

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

$>:R0019E1.<$
Dark light detection threshold setting

Dark light detection time and dark light detection threshold setting steps

1) Scan code [Enter setup]
2) Scan code [dark light detection time setting] or【$>:R0019E1.<$】
3) Scan code [digital code]
4) Scan code [Save]
5) Scan code [Exit setup]

5 Data Editing

In practical applications, we need to edit the 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>

5.1 Prefix/Suffix Setting

Enable all prefixes and suffixes
$>:S80804E.<$
（Default）

Disable all prefixes and suffixes
$>:S80004E.<$

Enter setup

5.2 Prefix Sequence Setting

Custom prefix + Code ID + AIM ID
$>:S01014E.<$

Code ID + Custom prefix + AIM ID
$>:S01004E.<$
（Default）

5.3 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" "；

5.3.1 Enable/Disable Adding Custom Prefix

Enable add custom prefixes
$>:S04044E.<$

Disable add custom prefixes
$>:S04004E.<$
（Default）

5.3.2 Set Custom Prefix

Set custom prefix
$>: R000505.<$

Example: Set custom prefix to“CODE”（The hexadecimal value is 0x43/0x4F/0x44/0x45）

Exit setup

1) Scan code "**Enter setup**"
2) Scan code "**Set Custom Prefix**"
3) Scan Data Code：“4”“3”“4”“F”“4”“4”“4”“5”(in Appdendix)
4) Scan code "**Save** "(in Appdendix)
5) Scan code "**Enable add custom prefixes**"
6) Scan code "**Exit setup**"

5.4 AIM ID Prefix

AIM is the abbreviation 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 add AIM ID
$>:S010082.<$
（Default）

$>:DEFXXC2.<$
All barcode Code ID Restore factory default value

5.5 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.

5.5.1 Allow/Prohibit Adding CODE ID Prefix

Allow to add CODE ID prefix
$>:S02024E.<$

Prohibit add CODE ID prefix
$>:S02004E.<$
（Default）

5.5.2 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 code "Enter setup"
2) Scan code “Set CODE128 CODE ID ”
3) Scan Data code：“7”(in Appdendix)
4) Scan Data code：“0”(in Appdendix)
5) Scan code"**Save**"(in Appdendix)
6) Scan code “Allow to add CODE ID prefix”
7) Scan code "Exit setup"

5.6 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.

5.6.1 Allow / prohibit adding custom suffix

Allow Custom Suffix
$>:S08084E.<$

Prohibit Custom Suffix
$>:S08004E.<$
（Default）

5.6.2 Setting Custom Suffix

Setting Custom Suffix
$>:R0005B5.<$

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

1) Scan code "Enter setup"
2) Scan code “Setting Custom Suffix”
3) Scan Data code：“4”“3”“4”“F”“4”“4”“4”“5” (in Appdendix)
4) Scan code "Save” (in Appdendix) 5) Scan code “Allow Custom Cuffix”
6) Scan code "Exit setup"

5.7 Suffix

The suffix (such as carriage return, line feed) mark the end of a complete data message. The 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.

Enter setup

5.7.1 Enable / Disable Suffix

Enable suffix
$>:S10104E.<$
（Default）

Disable suffix
$>:S10004E.<$

Read the following setting codes, you can quickly set the terminator to 0x0D (carriage return) or 0x0D, 0x0A (carriage Linefeed) 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 "Set 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 code "Enter setup"
2) Scan code “Set suffix”
3) Scan Data code：“0”“A”(in Appdendix)
4) Scan code "Save"(in Appdendix)

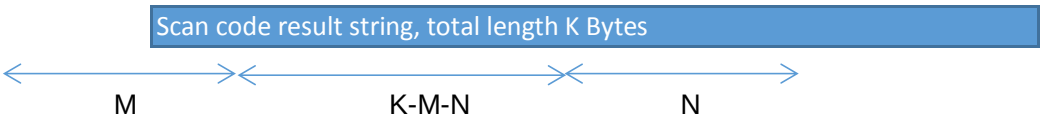
Exit setup

5) Scan code “Enable sufix ”

6) Scan code "Exit setup"

5.8 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 orign

Reserve Front part M bytes setting

Reserve Back part N bytes setting

Reserve K-M-N bytes in the middle section

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

If you want to hide the back bytes, 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）

Keep only the middle section

$>:S181882.<$

Keep orign

$>:S180082.<$

（Default）

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

For example, to set the M bytes to 18, the corresponding ASCII hexadecimal value is 12, first scan the "Front part M bytes setting", then the date "1" and "2" respectively, and then scan code "save".

Front part M bytes setting

$>:R000831.<$

Back part N bytes setting

$>:R000841.<$

5.9 GS Character Conversion

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

5.9.1 Enable/ Disable GS character conversion

Enable GS characters conversion

$>:S010181.<$

Disable GS characters conversion

$>:S010081.<$

（Default）

5.9.2 Set GS Character conversion

Set GS Conversion

$>:R0006A6.<$

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

1) Scan code"Enter setup"
2) Scan code "Set GS conversion "
3) Scan Data code： "2""3""2""3""2""3""2""3"(in Appdendix)
4) Scan code "Save "(in Appdendix)
5) Scan code "Enable GS characters conversion"
6) Scan code "Exit setup"

5.9.3 Quick Setting Code for Special GS Conversion

Enter setup

Including four substitutions:“[GS]”、“(GS)”、“<GS>”“’GS’”

$>:SHTCT04.<$

GS

$>:SHTCT05.<$

<GS>

$>:SHTCT06.<$

(GS)

$>:SHTCT07.<$

[GS]

$>:SHTCT08.<$

‘GS’

$>:SHTCT09.<$

`GS`

$>:SHTCT0A.<$

|

$>:SHTCT0B.<$

?

$>:SHTCT0C.<$

*

$>:SHTCT0D.<$

<0x1D>

5.10 Set NGR Information

After enable send NGR, when the decoding times out, the 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!)

5.10.1 Enable/ Disable Send NGR

Exit setup

Enable Send NGR
$>:S40404E.<$

Disable Send NGR
$>:S40004E.<$
（Default）

5.10.2 Set NGR Information

Set NGR information
$>: R000767.<$

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

1) Scan code"Enter setup"
2) Scan code "Set NGR Information"
3) Scan Data code: "4" "6" "4" "1" "4" "9" "4" "C" (in Appendix)
4) Scan code "Save"(in Appendix))
5) Scan code "Enabel Send NGR
6) Scan code "Exit setup"

6 Barcode Parameter Settings

6.1 Overall Settings

6.1.1 Enable/Disable All Barcodes

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

Enable all barcode
$>:S010187.<$

Disable all barcode
$>:S010087.<$

Enter setup

6.1.2 Enable/Disable Read All 1D Barcodes

Enable all 1D Codes
$>:S020287.<$

Disable all 1D code
$>:S020087.<$

6.1.3 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.

6.1.4 Enable/Disable All 1D/2D Reverse Barcodes

Enable all 1D reverse barcode
$>:S080887.<$

Disable all 1D reverse barcode
$>:S080087.<$

Enable all 2D reverse barcode
$>:S101087.<$
（Default）

Disable all 2D reverse barcode
$>:S100087.<$
（Default）

Exit setup

Enter setup

6.2 Code128/AIM128/EAN128/NL128

6.2.1 Enable/Disable

Enable
$>:S010188.<$
（Default）

Disable
$>:S010088.<$

6.2.2 CODE ID

Set CODE128 CODE ID
$>: R001342.<$

6.2.3 Length Settings

The user can set the maximum and minimum length of barcode reading. If 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.

Exit setup

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 code "Enter setup"
2) Scan code"CODE 128 Minimum decoding length"
3) Scan Data code “8”（in Appendix）
4) Scan code "Save "（in Appendix）
5) Scan code "CODE 128 Maximum decoding length"
6) Scan Data code “C”（in Appendix）
7) Scan code "Save "（in Appendix）
8) Scan code "Exit setup"

6.3 UPC/EAN/ISSN/ISBN

6.3.1 Enable/Disable Scan

Enable
$>:S010189.<$
（Default）

Disable
$>:S010089.<$

Enter setup

6.3.2 CODE ID

Set EAN CODE ID

$>: R001362.<$

6.3.3 Parity Bits Transmission

EAN8 parity output

$>:S0101AA.<$

（Default）

EAN8 no parity output

$>:S0100AA.<$

EAN13 parity output

$>:S0202AA.<$

（Default）

EAN13no parity output

$>:S0200AA.<$

UPCA parity output

$>:S0404AA.<$

（Default）

UPCA no parity output

$>:S0400AA.<$

UPCE parity output

$>:S0808AA.<$

（Default）

UPCE no parity output

$>:S0800AA.<$

6.3.4 Set Whether to Enable Scan Additional Codes

After setting 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

Exit setup

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 common ordinary barcode can still be read. .

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
$>:S080089.<$

6.3.5 Set Whether Additional Code is Required

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

With additional code
$>:S808089.<$

No additional code required
$>: S800089.<$
（Default）

6.3.6 Extended Settings

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

"Barcode information 8 expand to 13", mean expand the Data Bits of the barcode (prefix 0), but the barcode type does not change.

Enter setup

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
$>:S0300A4.<$

Barcode information 8 expand to 13
$>:S600089.<$
（Default）

Barcode information is not expanded
$>:S602089.<$
（Default）

6.4 Codabar

6.4.1 Enable/Disable Scan

Enable
$>:S01018C.<$

Disable
$>:S01008C.<$
（Default）

Exit setup

Enter setup

6.4.2 CODE ID

Set CODABAR CODE ID

$>: R0013E2.<$

6.4.3 Parity

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 "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.

Exit setup

Enter setup

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 and send check digit
$>:S06068C.<$

Check but not send check digit
$>:S06028C.<$

6.4.4 Length Settings

The user can set the maximum and minimum length of barcode reading. If read barcode length does not match the set effective length, the barcode

Exit setup

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: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

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

Enter setup

6.4.5 Send Start/stop character setting

Not Send start/stop character

$>:S08088C.<$

（Default）

Send start/stop character

$>:S08008C.<$

Start/stop character case setting

Start character Uppercaser

$>:S20008C.<$

（Default）

Start character Lowercase

$>:S20208C.<$

6.5 Code 39

6.5.1 Enable/Disable scan

Enable

$>:S01018A.<$

（Default）

Disable

$>:S01008A.<$

6.5.2 CODE ID

Exit setup

Enter setup

Set CODE39 CODE ID
$>: R001382.<$

6.5.3 Parity

The 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 and send check digit
$>:S06068A.<$

Check but not send check digit
$>:S06028A.<$

6.5.4 Expand support

Exit setup

Enter setup

Enablel Expand
$>:S08088A.<$

Disable Expand
$>:S08008A.<$
（Default）

6.5.5 Full ASCII support

Enable full ascii
$>:S20208A.<$
（Default）

Disable full ascii
$>:S20008A.<$

6.5.6 Length Settings

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 39 Minimum decoding length
$>: R000C51.<$

Exit setup

Enter setup

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Scan code "Enter setup"
2) Scancode “CODE 39 Minimum decoding length”
3) Scan Data code “8”（in Appendix）
4) Scan code "Save"（in Appendix）
5) Scan code “CODE 39 Maximum decoding length”
6) Scan Data code “C”（in Appendix）
7) Scan code "Save"（in Appendix）
8) Scan code "Exit setup"

6.5.7 Send PREFIX character （A）

Send PREFIX character（A）
$>:S1010AB.<$

Not send PREFIX Character
$>:S1000AB.<$
（Default）

6.5.8 CODE39 Send leading character（*）

CODE39 Send leading
$>:S2020AB.<$

CODE39 Don’t send Leading
$>:S2000AB.<$
（Default）

Exit setup

Enter setup

6.6 Code 32

6.6.1 Enable/Disable scan

Enable
$>:S0101AB.<$
（Default）

Disable
$>:S0100AB.<$

6.6.2 CODE ID

Set CODE32 CODE ID
$>:R001792.<$

6.6.3 Send PREFIX character （A）

Send PREFIX character （A）
$>:S1010AB.<$

Not send PREFIXcharacter
$>:S1000AB.<$
（Default）

6.6.4 Length Settings

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

Exit setup

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 32Minimum decoding length

$>:R001191.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Scan code "Enter setup"
2) Scan code “CODE 32 Minimum decoding length”
3) Scan Data code “8”（in Appendix）
4) Scan code "Save"（in Appendix）
5) Scan code “CODE 32 Maximum decoding length”
6) Scan Data code “C”（in Appendix）
7) Scan code "Save"（in Appendix）
8) Scan code "Exit setup"

Enter setup

6.7 Code 93

6.7.1 Enable/Disable scan

Enable
$>:S01018D.<$
（Default）

Disable
$>:S01008D.<$

6.7.2 CODE ID

Set CODE93 CODE ID
$>: R001402.<$

6.7.3 Parity

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.

Exit setup

Enter setup

None parity
$>:S02008D.<$
（Default）

Check but not send check digit
$>:S06028D.<$

Check and send check digit
$>:S06068D.<$

6.7.4 Full ASCII support

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）

Disable full ascii
$>:S20008D.<$

Exit setup

Enter setup

6.7.5 Length Settings

The user can set the maximum and minimum length of barcode reading. If 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 93 Minimum decoding length

$>: R000CB1.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

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

Exit setup

Enter setup

6.8 Code 11

6.8.1 Enable/Disable scan

Enable
$>:S01018F.<$

Disable
$>:S01008F.<$
（Default）

6.8.2 CODE ID

Set CODE11 CODE ID
$>: R001442.<$

6.8.3 Parity

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
$>:S08088F.<$

Exit setup

Enter setup

1 parity bit
$>:S08008F.<$

Check but not send check digit
$>:S06028F.<$

Check and send check digit
$>:S06068F.<$

6.8.4 Length Settings

The user can set the maximum and minimum length of barcode reading. If 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 11 Minimum decoding length
$>: R000CF1.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Scan code "Enter setup"
2) Scan code “CODE 11Minimum decoding length”
3) Scan Data code “8”（in Appendix）

Exit setup

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

6.9 ITF-25/ITF-14/ITF-6/ Deutsche12/ Deutsche14

6.9.1 Enable/Disable

Enable
$>:S01018B.<$
（Default）

Disable
$>:S01008B.<$

6.9.2 CODE ID

Set ITF CODE ID
$>: R0013C2.<$

6.9.3 Parity

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 and send check digit
$>:S06068B.<$

Check but not send check digit
$>:S06028B.<$

6.9.4 Length setting

The user can set the maximum and minimum length of barcode reading. If 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
$>: R000C61.<$

ITFMinimum decoding length
$>: R000C71.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Scan code "Enter setup"
2) Scan code “ITF Minimum decoding length”

3) Scan Data code “8”（in Appendix） 4) Scan code "Save"（in Appendix ）

5) Scan code “ITF Maximum decoding length”

6) Scan Data code “C”（in Appendix）

7) Scan code "Save"（in Appendix）

8) Scan code "Exit setup"

6.10 Industrial 25

6.10.1 Enable/Disable scan

Enable
$>:S010193.<$

Disable
$>:S010093.<$
（Default）

6.10.2 CODE ID

Set INDUSTRIAL 25 CODE ID
$>: R0014E2.<$

6.10.3 Parity

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 and send check digit
$>:S060693.<$

Check but not send check digit
$>:S060293.<$

6.10.4 Length Settings

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.

Enter setup

INDUSTRIAL 25 Maximum decoding length

$>: R000D41.<$

INDUSTRIAL 25 Minimum decoding length

$>: R000D51.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

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

6.11 Matrix 25

6.11.1 Enable/Disable scan

Enable

$>:S01018E.<$

Disable

$>:S01008E.<$

（Default）

Exit setup

Enter setup

6.11.2 CODE ID

Set MATRIX25 CODE ID

$>: R001422.<$

6.11.3 Parity

None parity

$>:S02008E.<$

（Default）

Check and send check digit

$>:S06068E.<$

Check but not send check digit

$>:S06028E.<$

6.11.4 Length Settings

The user can set the maximum and minimum length of barcode reading. If 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.

Exit setup

Enter setup

Matrix25 Maximum decoding length
$>: R000CC1.<$

Matrix25 Minimum decoding length
$>: R000CD1.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Scan code "Enter setup"
2) Scan code “Matrix25 Minimum decoding length”
3) Scan Data code “8”（in Appendix）
4) Scan code "Save"（in Appendix）
5) Scan code “Matrix25 Maximum decoding length”
6) Scan Data code “C”（in Appendix）
7) Scan code "Save"（in Appendix）
8) Scan code "Exit setup"

6.12 NEC 25 /Japan Matrix 25

6.12.1 Enable/Disable scan

Enable
$>:S01019E.<$

Disable
$>:S01009E.<$
（Default）

Exit setup

6.12.2 CODE ID

NEC25 CODE ID setting

$>: R001642.<$

6.12.3 Parity

None parity

$>:S02009E.<$

（Default）

Check and send check digit

$>:S06069E.<$

Check but not send check digit

$>:S06029E.<$

6.12.4 Length Settings

The user can set the maximum and minimum length of barcode reading. If 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.

Enter setup

NEC25 Maximum decoding length
$>: R000FE2.<$

NEC25 Minimum decoding length
$>: R001002.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Scan code "Enter setup"
2) Scan code “NEC25 Minimum decoding length”
3) Scan Data code “8”（in Appendix）
4) Scan code "Save"（in Appendix）
5) Scan ccode “NEC25 Maximum decoding length”
6) Scan Data code “C”（in Appendix）
7) Scan code "Save"（in Appendix）
8) Scan code "Exit setup"

6.13 Standard 25

6.13.1 Enable/Disable scan

Enable
$>:S010192.<$

Disable
$>:S010092.<$
（Default）

Exit setup

6.13.2 CODE ID

Set STANDARD 25 CODE ID
$>: R0014A2.<$

6.13.3 Parity

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 and send check digit
$>:S060692.<$

Check but not send check digit
$>:S060292.<$

Enter setup

6.13.4 Length Settings

The user can set the maximum and minimum length of barcode reading. If 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.

STANDARD 25 Maximum decoding length $>: R000D21.<$

STANDARD 25 Minimum decoding length $>: R000D31.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

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

Exit setup

Enter setup

8) Scan code "Exit setup"

6.14 Data Logic 25

6.14.1 Enable/Disable scan

Enable

$>:S01019F.<$

Disable

$>:S01009F.<$

（Default）

6.14.2 CODE ID

Set DataLogic25 CODE ID

$>: R001692.<$

6.14.3 Parity

None parity

$>:S02009F.<$

（Default）

Check and send check digit

$>:S06069F.<$

Check but not send check digit

$>:S06029F.<$

Exit setup

Enter setup

6.14.4 Length Settings

The user can set the maximum and minimum length of barcode reading. If 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 Logic 25 Maximum decoding length $>: R001022.<$

Data Logic 25 Minimum decoding length $>: R001042.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

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

Exit setup

Enter setup

6.15 MSI-Plessey

6.15.1 Enable/Disable

Enable MSI-Plessey
$>:S010191.<$

Disable
$>:S010091.<$
（ Default ）
default

6.15.2 CODE ID

Set MSI PLESSEY ID
$>: R001482.<$

6.15.3 Parity

The check digit is not mandatory in the MSI-Plessey 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 verify whether the data is correct.

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

None parityDisable
$>:S020191.<$

MOD10 One Check Character
$>:S180091.<$
（Default）default

Exit setup

MOD10/11 Check Character

$>:S180891.<$

Not Send MIS-Plessey Check Character

$>:S060291.<$

（Default）Default

MOD10/10 Check Character

$>:S181091.<$

Send and Check MIS-Plessey Check Character

$>:S060691.<$

6.15.4 Lengths settings

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 decoding Length

$>: R000D11.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Scan code "Enter setup"
2) Scan code “MSI_Plessey Minimum decoding Length”
3) Scan Date code “8”（in Appendix）
4) Scan code "Save" （in Appendix）
5) Scan code “MSI_Plessey Maximum decoding length”
6) Scan Data code “C”（in Appendix）

7) Scan code "Save"（in Appendix）

8) Scan code "Exit setup"

6.16 Plessey

6.16.1 Enable/Disable Plessey Scan

Enable Plessey
$>:S0101A0.<$

Disable Plessey
$>:S0100A0.<$
（Default）

6.16.2 CODE ID

Set Plessey CODE ID
$>: R0016F2.<$

6.16.3 Lengths settings

The user can set the maximum and minimum length of barcode reading. If 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.

Enter setup

Plessey Maximum decoding length
$>: R001062.<$

Plessey Minimum decoding length
$>: R001082.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

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

6.17 RSS-EXP /RSS_14/GS1 Data

6.17.1 Enable/Disable RSS-EXP /RSS_14/GS1 Data

Enable RSS14
$>:S010190.<$

Disable RSS14
$>:S010090.<$
（Default）

Exit setup

Enter setup

6.17.2 Enable/Disable RSS14 LIMIT

Enable RSS14 LIMIT
$>:S0101A6.<$

Disable RSS14 LIMIT
$>:S0100A6.<$
（Default）

6.17.3 Enable/Disable RSS14_STACK

Enable RSS14_STACK
$>:S0101A7.<$

Disable RSS14_STACK
$>:S0100A7.<$
（Default）

6.17.4 Enable / Disable RSS EXPANDED

Enable RSS EXPANDED
$>:S0101A8.<$

Disable RSS EXPANDED
$>:S0100A8.<$
(Default)

6.17.5 Enable/Disable RSS EXPANDED STACK

Enable EXPANDED STACK
$>:S0101A9.<$

Disable EXPANDED STACK
$>:S0100A9.<$
(Default)

Exit setup

6.17.6 CODE ID

Set RSS GSICODE ID
$>: R001462.<$

6.18 Telepen

6.18.1 Enable/Disable Telepen

Enable Telepen
$>:S010194.<$

Disable Telepen
$>:S010094.<$
(Default)

6.18.2 CODE ID

Set TELEPEN CODE ID
$>: R0014C2.<$

Enter setup

6.18.3 Lengths settings

The user can set the maximum and minimum length of barcode reading. If 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 length

$>: R000D61.<$

TELEPEN Minimum decoding length

$>: R000D71.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Scan code “Enter Setup”
2) Scan code “Telepen Minimum decoding length”
3) Scan Data code “8”（in Appendix）
4) Scan code "Save" in Appendix）
5) Scan code “Telepen Maximum decoding length”
6) Scan Data code “C”（in Appendix）
7) Scan code "Save"（in Appendix)
8) Scan code "Exit setup"

Exit setup

Enter setup

6.19 Pharma Code One-Track

6.19.1 Enable/Disable Pharma Code One-Track

Enable Pharma-one
$>:S0101A1.<$

Disable Pharma-one
$>:S0100A1.<$
（Default）

6.19.2 CODE ID

Set Pharma_One CODE ID
$>: R001712.<$

6.19.3

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.

Exit setup

Enter setup

Lengths settings

The user

Pharma_One Maximum decoding length $>: R0010A2.<$

Pharma_OneMinimum decoding length $>: R0010C2.<$

Example: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Scan code “Enter Setup”
2) Scan code “Pharma_One Minimum decoding length”
3) Scan Data code “8”（in Appendix）
4) Scan code "Save"（in Appendix）
5) Scan code “Pharma_One Maximum decoding length”
6) Scan Data code “C”（in Appendix）
7) Scan code "Save"（in Appendix）
8) Scan code "Exit setup"

6.20 PharmaCode Two-Track

6.20.1 Enable/Disable PharmaCode Two-Track

Exit setup

Enter setup

Enable
$>:S0101A2.<$

Disable
$>:S0100A2.<$
（Default）

6.20.2 CODE ID setting

Set Pharma_Two CODE ID
$>: R001732.<$

6.20.3

can set the maximum and minimum length of barcode reading. If 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: Limit the scanner to only read barcodes with a minimum of 8 bytes and a maximum of 12 bytes

1) Scan code “ Enter setup”

Exit setup

Enter setup

Lengths settings

The user

2) Scan code “Pharma_Two Minimum decoding length”
3) Scan Data code “8”（in Appendix）
4) Scan code "Save"（in Appendix）
5) Scan code “Pharma_Two Maximum decoding length”
6) Scan Data code “C”（in Appendix）
7) Scan code "Save"（in Appendix）
8) Scan code "Exit setup"

6.21 AZTEC

6.21.1 Enable/Disable AZTEC

Enable AZTEC
$>:S01019A.<$

Disable AZTEC
$>:S01009A.<$
（Default）

6.21.2 Enable/Disable reverse

Exit setup

Enter setup

Disable Reverse
$>:S40009A.<$
（Default）

Enable Reverse
$>:S40409A.<$
（Default）

6.21.3 CODE ID

Set AZTEC CODE ID
$>: R0015E2.<$

6.21.4

can set the maximum and minimum length of barcode reading. If the 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 code "Enter setup"
2) Scan code “AZTEC Minimum decoding length”

Exit setup

Enter setup

Lengths settings

The user

3) Scan Data code “4”（in Appendix）
4) Scan code "Save"（in Appendix)
5) Scan code “AZTEC Maximum decoding length”
6) Scan Data code：“6” “4”（in Appendix)
7) Scan code "Save"（in Appendix)
8) Scan code "Exit setup"

6.22 CODABLOCK A

6.22.1 Enable/Disable CODABLOCK A

Enable
$>:S01019C.<$

Disable
$>:S01009C.<$
（Default）

6.22.2 CODE ID

Set CodaBlock_A CODE ID
$>: R001602.<$

Exit setup

Enter setup

Length Settings

6.22.3

The can set the maximum and minimum length of barcode reading. If user 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 code "Enter setup"
2) Scan code “CodaBlock A Minimum decoding length”
3) Scan Data code “4”（in Appendix）
4) Scan code "Save "（in Appendix）
7) Scan code
8) Scan code "Exit setup"

Exit setup

Enter setup

Length Settings

The can set the maximum and minimum length of barcode reading. If

5) Scan code “CodaBlock A Maximum decoding length” 6) Scan Data code：“6” “4”（in Appendix）

"Save "（in Appendix）

6.23 CODABLOCK F

6.23.1 Enable/Disable CODABLOCK F

Enable
$>:S01019D.<$

Disable
$>:S01009D.<$
（Default）

6.23.2 CODE ID

Set CodaBlock_F CODE ID
$>: R001622.<$

6.23.3

user

7) Scan code "Save" (in Appendix)

8) Scan code "Exit setup"

Exit setup

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 code "Enter setup"
2) Scan code “CodaBlock FMinimum decoding length”
3) Scan Data code “4”（in Appendix）
4) Scan code "Save" (in Appendix)
5) Scan code “CodaBlock F Maximum decoding length”
6) Scan Data code：“6” “4” (in Appendix)

Enter setup

Length Settings

The can set the maximum and minimum length of barcode reading. If

6.24 Data Matrix

6.24.1 Enable/Disable Data Matrix

Enable
$>:S010197.<$
（Default）

Disable
$>:S010097.<$
（Default）

6.24.2 Enable/Disable reverse

Enable
$>:S020297.<$
（Default）

Disable
$>:S020097.<$

6.24.3 CODE ID

Set DATA MATRIX CODE ID
$>: R001582.<$

7) Scan code "Save" (in Appendix)

8) Scan code "Exit setup"

Exit setup

6.24.4

user

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 code "Enter setup"
2) Scan coode “Data Matrix Minimum decoding length”
3) Scan Data code “4” (in Appendix)
4) Scan"Save code" (in Appendix)
5) Scan code “Data Matrix Maximum decoding length”
6) Scan Data code：“6” “4” (in Appendix)

Enter setup

Length Settings

The can set the maximum and minimum length of barcode reading. If

6.25 Maxi Code

6.25.1 Enable/Disable Maxi Code

Enable

$>:S010199.<$

Disable

$>:S010099.<$

（Default）

6.25.2 CODE ID

Set MAXI CODE ID

$>: R0015C2.<$

6.25.3

user

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

7) Scan code "Save" (in Appendix)

8) Scan code "Exit setup"

Exit setup

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 code "Enter setup"
2) Scan code “MAXI Minimum decoding length”
3) Scan Data code “4” (in Appendix)
4) Scan code "Save" (in Appendix)
5) Scan code “MAXI Maximum decoding length”
6) ScanData code “6” “4” (in Appendix)

6.26 PDF417

6.26.1 Enable/Disable PDF417

Enable
$>:S010195.<$
（Default）

Disable
$>:S010095.<$

Enter setup

Length Settings

The can set the maximum and minimum length of barcode reading. If

6.26.2 Enable/Disable reverse

Enable reverse

$>:S020295.<$

（Default）

Disable reverse

$>:S020095.<$

6.26.3 CODE ID

Set PDF417 CODE ID

$>: R001522.<$

7) Scan code "Save" (in Appendix)

8) Scan code "Exit setup"

Exit setup

Enter setup

Length Settings

6.26.4

The can set the maximum and If user minimum length of the barcode scan. 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 code "Enter setup"
2) Scan code “PDF417 Minimum decoding length”
7) Scan code (in Appendix)
8) Scan code "Exit setup"

Exit setup

Enter setup

Length Settings

The can set the maximum and If

3) Scan Data code “4” (in Appendix)

4) Scan code "Save " (in Appendix)

5) Scan code “PDF417 Maximum decoding length” 6) Scan Data code“6” “4” (in Appendix)

"Save "

6.27 Micro PDF

6.27.1 Enable/Disable Micro PDF

Enable
$>:S0101A3.<$

Disable
$>:S0100A3.<$
（Default）

6.27.2 Enable/Disable Reverse

Disable Reverse
$>:S4000A3.<$
（Default）

Enable Reverse
$>:S4040A3.<$

6.27.3 CODE ID

Set Micro_PDF CODE ID
$>: R001752.<$

Exit setup

Enter setup

6.27.4

user minimum length of the barcode scan. 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 code "Enter setup"
2) Scan code “Micro PDF Minimum decoding length”
3) Scan Data code “4” (in Appendix)
4) Scan code "Save" (in Appendix)
5) Scan code “Micro PDF Maximum decoding length”
6) Scan Data code：“6” “4” (in Appendix)
7) Scan code "Save" (in Appendix)

Exit setup

Enter setup

Length Settings

The can set the maximum and If

8) Scan code "Exit setup"

6.28 QR Code

6.28.1 Enable/Disable scan QR Code

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

Fixed on

$>:S010196.<$

6.28.2 Enable/Disable Reverse

Enable Reverse

$>:S020296.<$

（Default）

Disable Reverse

$>:S020096.<$

6.28.3 CODE ID

Set QR CODE ID

$>: R001562.<$

Exit setup

Enter setup

6.28.4

user

the 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
$>: R000DC2.<$

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

Exit setup

Enter setup

Length Settings

The can set the maximum and minimum length of barcode reading. If

6.29 Micro QR

6.29.1 Enable/Disable scan Micro QR

Enable
$>:S010198.<$

Disable
$>:S010098.<$
（Default）

6.29.2 Enable/Disable Reverse

Disable reverse
$>:S400098.<$
（Default）

Enable reverse
$>:S404098.<$

6.29.3 CODE ID

Set MICRO QR CODE ID
$>: R0015A2.<$

6.29.4

user

the 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.

Exit setup

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

6.30 Han Xin Code

6.30.1 Enable/Disable scan Han Xin Code

Enter setup

Length Settings

The can set the maximum and minimum length of barcode reading. If

Enable

$>:S01019B.<$

Disable

$>:S01009B.<$

（Default）

6.30.2 Enable/Disable reverse

Disable Reverse

$>:S02009B.<$

（Default）

Enable Reverse

$>:S02029B.<$

6.30.3 CODE ID

Set Hanxin CODE ID

$>: R001772.<$

6.30.4

user

the 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.

Exit setup

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 code "Enter setup"
2) Scan code “HANXI Mnimum decoding length”
3) Scan Data code“4”(in Appdendix)
4) Scan code "Save"(in Appdendix)
5) Scan code “HANXIN Maximum decoding length”
6) Scan Data code：“6” “4”(in Appdendix)
7) Scan code "Save "(in Appdendix)
8) Scan code "Exit setup"

7 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.


Enter setup

Length Settings

The can set the maximum and minimum length of barcode reading. If

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


Exit setup

Enter setup

The synthetic instructions are as follows：

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

Exit setup

8 Appendix

8.1 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	
On beeper		Enable	
Indicate month		Beeper	
Illumination		Read code on	
Aim light		Read code on	

Enter setup

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		
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	

Exit setup

8.2 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	

Parity	OFF	OFF:According to the bar code content, if the bar code contains check, send check; do not contain check, do not send； 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	

Enter setup

Parameter Name	Default Setting	Remark
Parity	OFF	
Support extension	OFF	
Support Full ASCII	On	
Minimum length	1	
Maximum length	50	
CODE 93		
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	

Exit setup

Maximum length	80	
MATRIX 25		
Enable	OFF	
Parity	OFF	
Minimum length	6	
Maximum length	80	
Japan Matrix 25/NEC25		
Enable	OFF	
Parity	OFF	

Parameter Name	Default Setting	Remark
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	
Maximum length	1024	
MSI_PLESSEY		
Enable	OFF	

Parity	1 Bits Check，MOD10	
Parity character	Not send	
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	
Minimum length	1	
Maximum length	80	
PharmaCode Two-Track		

Enter setup

Parameter Name	Default Setting	Remark
QR		
Enable	OFF	
Minimum length	1	
Maximum length	3000	
AZTEC		
Enable	OFF	
Minimum length	1	
Maximum length	4096	
MICRO QR		
Enable	OFF	
Minimum length	1	
Maximum length	1024	
CODABLOCK A		
Enable	OFF	
Minimum length	1	
Maximum length	35	
HANXIN		
Enable	OFF	
Minimum length	1	
Maximum length	1024	
CODABLOCK F		
Enable	OFF	
Minimum length	1	
Maximum length	1024	
DATA MATRIX		
Enable	On	
Reverse	On	
Minimum length	1	
Maximum length	3116	
MAXI		
Enable	OFF	
Minimum length	1	
Maximum length	1024	

Exit setup

PDF417		
Enable	On	
Reverse	On	
Minimum length	1	
Maximum length	2710	
MICRO PDF		
Enable	OFF	
Minimum length	1	
Maximum length	1024	

8.3 AIM ID List

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
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

Barcode types	AIM ID	Instruction
	]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
	]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
	]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
Barcode types	**AIM ID**	**Instruction**
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
HAN XIN		

8.4 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

8.5 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)
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)

HEX	Decimal base	Character
20	32	SP (Space)
21	33	! (Exclamation Mark)
22	34	" (Double Quote)
23	35	# (Number Sign)
24	36	$ (Dollar Sign)
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (Single Quote)
28	40	((Right / Closing Parenthesis)
29	41	) (Right / Closing Parenthesis)
2a	42	* (Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)
2d	45	- (Minus / Dash)
2e	46	. (Dot)
2f	47	/ (Forward Slash)
30	48	0
31	49	1
32	50	2

33	51	3
34	52	4
35	53	5
36	54	6
37	55	7
38	56	8
39	57	9
3a	58	: (Colon)
3b	59	; (Semi-colon)
3c	60	< (Less Than)
3d	61	= (Equal Sign)
3e	62	> (Greater Than)
3f	63	? (Question Mark)
40	64	@ (AT Symbol)
41	65	A
42	66	B

HEX	Decimal base	Character
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
4e	78	N
4f	79	O
50	80	P
51	81	Q
52	82	R
53	83	S
54	84	T
55	85	U
56	86	V
57	87	W
58	88	X
59	89	Y
5a	90	Z
5b	91	[(Left / Opening Bracket)
5c	92	\ (Back Slash)
5d	93	] (Right / Closing Bracket)
5e	94	^ (Caret / Circumflex)
5f	95	_ (Underscore)
60	96	' (Grave Accent)
61	97	a
62	98	b

63	99	c
64	100	d
65	101	e

HEX	Decimal base	Character
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
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)

8.6 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+ -	

8.7 Data code

0 ~ 9

$>:N000000.<$

0

$>:N000001.<$

1

$>:N000002.<$

2

$>:N000003.<$

3

$>:N000004.<$

4

$>:N000005.<$

5

$>:N000006.<$

$>:N000007.<$

Enter setup

6

$>:N000008.<$

8

7

$>:N000009.<$

9

A ~ F

$>:N00000A.<$

A

$>:N00000B.<$

B

$>:N00000E.<$

E

$>:N00000F.<$

F

Save or Cancel

$>:N00000D.<$

D

$>:N00000C.<$

C

$>:N000012.<$

0X12

$>:N000010.<$

0X10

Save

Exit setup

Enter setup

$>:N000011.<$

0X11

Cancel previous all data

Cancel previous read one data

Exit setup