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1、Product Introduction

Structure Chart

1) Button ①: Up; Button ②: Down; Button ③: Confirm key /scan key.

2)Enter/exit settings: Press and hold the two buttons at thebottom of the screen for 2 seconds to enter or exit settings.

3)Afterentering the settings, the default is the wirelessmode,and the wireless(Wi-Fiicon flashes) mode/Bluetooth HiD mode and Bluetooth BLE mode can beswitched by triggering the button ①/ button ②.

4)Wireless mode: After entering the settings to select thewireless mode,the Wi-Fiicon and the screen will flash,and it is in the state of being paired.Insert the USB receiverinto the USB port of the computer to pair; after the pairingis successful, you will hear a beep, and the screen will beoff blink again.

5)Bluetooth mode: the first Bluetooth icon is HiD keyboardmode,and the second Bluetooth icon is BLE serial portmode;after selecting the HlD mode Bluetooth icon, thescreen will flash and it is in the state of being paired, andthe mobile phone searches for RB Scanner HlD for pairing.

6)Time setting: After entering the setting, press button ①/key ② to select, when the corresponding hour hand isflashing, press button ③ to confirm, and then pressbutton ① or button ② to adjust the time.

 

* 1. **Factory default**
1. End：Enter(\r)。



 Factory default

* 1. **Get device information**



 Obtain the version number

2 Wireless settings

**2.1 Pairing setup code**

①Pair the receiver: Scan the following two barcodes in sequence.And connect the receiver to computer；

  

2.4G MODE Connecting devices

②Pair Bluetooth devices in HID mode: Scan the following two barcodes in sequence, turn on the Bluetooth device to search for RB\_Scanner\_HID connection.

  

HID MODE Connect

**2.2 BLE BLUETOOTH MODE**

Pairing Bluetooth devices: Scan the following two barcodes in sequence, and perform Bluetooth search RB\_Scanner\_BLE on the software that supports BLE

Connect.Note: BLE mode needs to be output on specific software (Bluetooth serial port)

  

 BLE MODE Connect

**2.3 Mode Selection**

  

 Instant upload mode Inventory Mode

 

Over-the-distance storage mode

①Operations in Inventory Mode

  

Upload all data Upload new data (that is, data that has not been uploaded before)

  

 Display saved data Showing unuploaded data

 

Clear all data

**2.4 Set the upload data speed delay**

  

No delay Delay 10ms

 

Delay 20ms

**2.5 Check software version**

  

Check the scanner software version Check the receiving end version number

**2.6 Set sleep time**

X=1yyy(x=1000 means no sleep, sleep time calculation formula: yyy\*10=z seconds)

  

No sleep 60 seconds

  

120 seconds 5 minutes

 

10 minutes

**2.7 USB KBW**

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



USB KBW keyboard

**2.8 USB COM keyboard**

When the scanner is connected to the host using a USB receiver, the receiver virtual serial port output mode can be changed by scanning the USB COM setup code.

 

USB COM

**2.9 Output format**

  

UTF-8 GBK

**2.10 multi-language keyboards**

When the scanner recognizes it as a keyboard input device, different countries have different input characters, so you need to set different national languages. The keyboard defaults to the US language.

 U.S. (default) Belgium (French)

 Brazil (Portuguese)  Canada

 Czech Republic  Denmark

 Finland France

 Germany Italy

 Portugal Spain

 Türkiye-F Türkiye-Q

 U.K.  Japan

 Russia Vietnamese

**2.11 Output forced letter case conversion**

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

**Case conversion**

  

Do not convert Uppercase

  

Lowercase Case conversion

**2.12 Wired Direct Mode**

  

Wired Mode Wireless Mode(default)

InstructionsPlug in the charging cable to connect to thecomputer device,and scan this setting codeto switch to the wirederansmission mode

## Chapter 3 Scanning Mode

### 3.1 Manual Mode

Manual mode is a default scanning module. In manual mode, press the trigger button, the scanning module starts shooting and reading. In the limited duration of "Decode Session Timeout". After successful reading, the scanning module will output the scanned content through the communication interface and stop reading, if you need to one more reading, you need to re-trigger the button. If the reading exceeds the length of a single reading in time duration, the shooting and reading will be stopped.



\*\*Manual Mode

#### 3.1.1 Trigger Conditions

The trigger condition can be selected in the manual mode. The trigger condition defaults to level triggering and level triggering.

☞Edge triggering refers to the detection of the level pulse of the trigger signal, that is, start reading, and the reading is ended when the reading is successful or the decode session timeout condition is reached.

☞ The Level Trigger condition refers to the level at which the trigger signal needs to be held during the start of reading to the end of reading. When the trigger level is cancelled, the reading is successful, or the reading is longer than the single reading duration, the reading is ended.

 

 Edge Trigger \*\*Level Trigger

#### 3.1.2 Decode Session Timeout

Decode Session Timeout is the time allowed to conduct the longest reading after the reading is triggered. When the time is exceeded, it will exit the reading state. The range is from 100ms to 25500ms. Scan the following programming barcode to set the Decode Session Timeout.

 

1000ms 3000ms

 

 \*\*5000ms 10000ms



Infinite

#### 3.1.3 Deep Sleep

The user can set the deep sleep through the following setting code. After deep sleep is turned on, the module will automatically enter deep sleep after idle for a fixed time.

 

 Deep Sleep\_ON \*\*Deep Sleep\_OFF

☞ Note1: After entering the deep sleep mode, you can wake up by pressing the key or serial port command to exit the deep sleep mode.

☞ Note2: The deep sleep function is only effective for manual mode and ttl-232 serial port mode output.

### 3.2 Command Trigger Mode

In the command trigger mode, the scanning module starts shooting and reading after receiving the trigger signal command sent by the host (that is, the bit 0 of the flag bit 0x0002 is written to "1"); within the limited time range of "decode session timeout" If the reading is successful, the scanning module will output the scan content through the communication interface and stop reading. If a new reading is to be booted, the trigger command needs to be resent. If the reading exceeds the length of a single reading in time duration, the reading will be stopped.



Command Trigger Mode

**☞** Note: In the command trigger mode, the serial command of the trigger signal is: 7E 00 08 01 00 02 01 AB CD; After receiving the scan commands, the serial port returns the write success command: 02 00 00 01 00 33 31, the scanning module is booted.

Read the following setting codes to allow and prohibit the trigger command response.

 

Trigger command response disable \*\* Trigger command response allowed

#### 3.2.1 Decode Session Timeout

For the single reading duration setting, please refer to 3.1.2 Decode Session Timeout Code to set.

### 3.3 Continuous Mode

Continuous Mode is a way for the scanning module to continuously capture, scan and output information.

In this mode, it is defaulted to go into the 1000ms reading timeout after successful reading.

In Continuous Mode, you can use the trigger level control to pause continuous reading or continue reading continuously. In continuous reading, it is necessary to maintain the trigger level of 50ms or more and then cancel it, so that the reading will be suspended. When the reading state is suspended, the trigger level of 50ms or more is also maintained and then canceled, and the reading is continued.



Continuous Mode

#### 3.3.1 Timeout Between Decodes

It refers to the timeout between the next reading and the current successful reading. No acquisition is performed during this timeout. Scan the following programming barcode to set timeout between decodes. The setting is from 0ms to 25500ms, and the default duration is 1000ms.

 

 No Timeout 200 ms

 

 500ms \*\*1000ms

 

3000ms 5000ms

#### 3.3.2 Timeout between Decodes (Same Barcode)

In order to avoid the same barcode being continuously scanned for multiple times in continuous mode, Timeout between Decodes (Same Barcode) is required for scanning module in this mode before enabling the same barcode. Timeout between Decodes (Same Barcode) means that the same barcode will not be read if it has been scanned within the set timeout. It can only be read and output beyong the timeout. By default, Timeout between Decodes (Same Barcode) is turned off.

 

ON \*\*OFF

Scan the following programming barcode to set Timeout between Decodes (Same Barcode).

Setting range: 0ms~12700ms.

☞Note: The delay time setting can be set only after the "Timeout between Decodes (Same Barcode)" is turned on.

 

500ms 1000ms

 

3000ms 5000ms



Infinite Delay

#### 3.3.3 Decode Session Timeout

For the decode session timeout, please refer to the programming barcode of Section 3.1.2 Decode Session Timeout.

#### 3.3.4 Continuous mode key pause switch

When "Continuous Mode Key Pause Support" is set, the continuous mode trigger can be suspended by pressing the key for the first time, and the continuous mode trigger can be started by pressing the key again; When "Continuous mode key pause is not supported" is set, the key is invalid for continuous mode.

The user can set the continuous mode key pause switch through the following setting code.

 

 \*\*Continuous mode key pause supports Continuous mode key pause is not

### 3.4 Sense Mode

Sense Mode refers to a working mode in which the scanning module conducts reading by sensing the change in brightness of the surrounding environment. When the scene changes, the scanning module begins to scan. After successful reading and outputing information or the Decode Session Timeout,the scanning module needs to be separated for a certain period(can be set) to re-enter the monitoring state. If the following conditions do not occur, the scanning module will cycle in the above manner: the barcode is not scanned within a Decode Session Timeout, and the scanning module will automatically pause the reading and enter the monitoring state. In the sensing scanning module, the scanning module can also boot reading by pressing the trigger button, and continue to monitor the brightness of the surrounding environment after the reading succeeds in outputting the information or releasing the trigger button.



Sense Mode

#### 3.4.1 Decode Session Timeout

For the setting of decode session timeout, please refer to the programming barcode in Section 3.1.2 Decode Session Timeout to set.

#### 3.4.2 Timeout between Decodes

For the setting of the timeout between decodes, please refer to the programming barcode in Section 3.3.1 Timeout between Decodes to set.

#### 3.4.3 Timeout between Decodes (Same Barcode)

For the setting of the timeout between Decodes (Same Barcode), please refer to the programming barcode in Section 3.3.2 Timeout between Decodes (Same Barcode) to set.

#### 3.4.4 Sensitivity

Sensitivity refers to the degree of changes in the scene detected in the inductive scanning module. When the scanning module meets the requirements in telling the degree of scene changes, it will switch from the monitoring state to the reading state.

 

Low Sensitivity \*\*Medium Sensitivity

 

High Sensitivity Enhanced Sensitivity

#### 3.4.5 Image Stabilization Timeout

Image Stabilization Timeout refers to the period for which the scanning module that detects the scene change needs to wait for the image to stabilize before reading the code in the inductive scanning module. The settting range of image stabilization timeout is 0~25500 ms, and the step size is 100ms. The default image stabilization timeout is 400ms.



\*\*0ms

 

100ms 400ms

 

1000ms 2000ms

## Chapter 4 Filling Light

### 4.1 Fill Light

There is a set of LEDs on the scanning module that are specially equipped for shooting, providing auxiliary fill light, illuminating the light beams on the reading targets, improving the adaptability of recognizing performance and weak ambient light. You can set it according to the actual use:

☞Fill Light - ON when Photographing: The fill light lights up while shooting and goes out if there is no shooting.

☞Fill Light - always ON: The fill light continues to glow after the scanning module is turned on.

☞Fill Light - always OFF : the fill light does not light up in any cases.



\*\*Fill Light - ON when Photographing

 

Fill Light - always ON Fill Light - always OFF

### 4.2 Positioning

The scanning module has an auxiliary device for positioning, which projects a pointing line during shooting to remind users of reading the center of the scene image captured by the module.

☞ Positioning Light - ON when Photographing : the positioning light is lit up during shooting and goes out when there is no shooting.

☞ Positioning light -always ON when Photographing : the positioning light is always on when taking pictures and goes out at other times.

☞ Positioning Light - always ON: the positioning light continues to illuminate after the scanning module is turned on.

☞ Positioning Light - always OFF : the positioning light does not illuminate in any cases.

 

\*\*Positioning Light - ON when Photographing Positioning light -always ON when Photographing

 

Positioning Light - always ON Positioning Light - always OFF

## Chapter 5 Prompt Output

### 5.1 Buzzer Master Switch

Scan the following programming barcode to turn on /off all of the beep sounds.

 

Mute \_ ON \*\*Mute \_ OFF

### 5.2 Buzzer Settings

#### 5.2.1 Passive Buzzer

Scan the following programming barcode to set the buzzer to passive and set the drive frequency of the passive buzzer.



\*\*Passive Buzzer



Passive\_Low Frequency \*\*Passive\_Intermediate Frequency Passive\_High Frequency

#### 5.2.2 Active Buzze

Scan the following programming barcodes to set the buzzer as active one and set the active buzzer's operating level. Scan "High Level", the buzzer is set to active low when idle, and active high level when working; scan "Low Level", the buzzer is set to active high when idle, and active low level when working.



Active Buzzer

 

 \*\*High Level Low Level

### 5.3 Good Read Beep for Programming Barcode

Scan the following programming barcodes to enable/disable the programming barcode beep.

 

\*\*Beep for Programming Barcode\_ON Beep for Programming Barcode \_OFF

**5.4 Startup Beep**

When the scanning module is on after power on, the scanning module can output or turn off the startup beep according to the setting requirements.

 

\*\* Startup Beep\_ON Startup Beep\_OFF

### 5.5 Good Read LED / Beep

After the scanning module is successfully scan the codes, BEEP and DLED prompt signals are output through the 12pin external interface by default, and the external passive buzzer and LED are used for prompting. These signals can be turned off if the user requires to do so.

 

 \*\*Good Read LED\_ON Good Read LED\_OFF

 

 \*\*Good Read Beep\_ON Good Read Beep\_OFF

The user can set the timeout of Good Read Beep, by reading the following programming barcodes.

 

30ms \*\*60ms

 

90ms 120ms

### 5.6 Data Output Encoding Format

Users can set the output format of the scanning module through the following programming barcodes, so that the host can output Chinese data according to the specified encoding format.

☞ Note: GBK format is used for Text., UNICODE format is used for Word and input box of common chat tool.

The Original Data output is used to encrypt the serial output of the data.

 

 \*\*GBK UTF8

 

 Original Data UNICODE

### 5.7 Different Country Keyboard Settings

In order to apply it in different countries, the device can be set as the corresponding "keyboard" of each country by the following programming barcodes.

 

 \*\*US Czech

 

French Germany

 

 Hungary        Italy

 

Japan Spain

 

 Turkey Q Turkey F



Mexico (Latin America)

### 5.8 Virtual keyboard enable

In order to apply it in more regional application environments, the standard/virtual keyboard output settings can be made by reading the following programming barcodes. But that will cause a certain loss in output efficiency. Note that when using a virtual keyboard, you must ensure that the keypad number keys are enabled.

 

 \*\*Standard Keyboard Virtual Keyboard

**1. Virtual keyboard output mode**

In order to adapt to different application scenarios, the virtual keyboard has two different output modes for control characters less than 0x20, and users can switch by scanning the following setting codes.

  

Ctrl Mode Alt Mode \*\*Control Character Output Off

**2. Control character transmission**

ASCII characters between 0x00 and 0x1F can be escaped as a control function key. When the virtual keyboard is enabled (other HID Keyboard of the module is set as default value), the input operation of the control function key is as follows: (Please refer to the control character correspondence table for the corresponding relationship between the specific ASCII value and the control function key)

**(1) Virtual keyboard Ctrl Mode on**

Read the characters whose data is "A < HT > F (HT is an invisible character and is not displayed on the terminal software)" (hexadecimal values are 0x41/0x09/0x46 respectively), and the virtual keyboard operation of the scanning module is as follows:

Enter "A"-press key A;

Enter "Ctrl I"-since the data of 0x09 corresponds to the control function key "I", the virtual keyboard would hold down Ctrl, then press the I key, and finally release the Ctrl key and the I key at the same time;

Enter "F"-press key F.

Since "Ctrl I" corresponds to the function of converting characters into italics in some word processing software, completing the above operation may result in normal characters "A" and italic "F".

At present, in QL1601 small module, the virtual keyboard Ctrl mode "control character output only supports American keyboard layout.

**(2) Virtual keyboard Alt mode**

If the virtual keyboard is turned on and set to "ALT Mode", the output corresponding control character operation is: ALT + "Character corresponds to ASCII decimal value". For example, for "<HT>" characters, the scanning module virtual keyboard operation is as follows:

Enter "Alt 0 9"-the virtual keyboard would hold down Alt, then press "0" and "9" of the numeric keypad, and finally release Alt.

When the standard keyboard outputs, the control character output function is turned off, and ASCII characters less than 0x20 would output the corresponding key value function. (For corresponding functions, please refer to the Control Character Correspondence Table)

**Control character correspondence table**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ASCII Function | ASCII Value(HEX) | Control Character Output Off | Ctrl Mode | CTRL+X Funciton |
| NUL | 0 | Null | Ctrl+@ |  |
| SOH | 1 | KeypadEnter | Ctrl+A | Select all |
| STX | 2 | CapsLock | Ctrl+B | Bold |
| ETX | 3 | ALT | Ctrl+C | Copy |
| EOT | 4 | Null | Ctrl+D | Bookmark |
| ENQ | 5 | CTRL | Ctrl+E | Center |
| ACK | 6 | Null | Ctrl+F | Find |
| BEL | 7 | Enter | Ctrl+G |  |
| BS | 8 | LeftArrow | Ctrl+H | History |
| HT | 9 | Horizontal Tab | Ctrl+I | Italic |
| LF | 0A | DownArrow | Ctrl+J | Justify |
| VT | 0B | Vertical Tab | Ctrl+K | hyperlink |
| FF | 0C | Delete | Ctrl+L | list,left align |
| CR | 0D | Enter | Ctrl+M |  |
| SO | 0E | Insert | Ctrl+N | New |
| SI | 0F | Esc | Ctrl+O | Open |
| DLE | 10 | F11 | Ctrl+P | Print |
| DC1 | 11 | Home | Ctrl+Q | Quit |
| DC2 | 12 | PrintScreen | Ctrl+R |  |
| DC3 | 13 | Backspace | Ctrl+S | Save |
| DC4 | 14 | tab+shift | Ctrl+T |  |
| NAK | 15 | F12 | Ctrl+U |  |
| SYN | 16 | F1 | Ctrl+V | Paste |
| ETB | 17 | F2 | Ctrl+W |  |
| CAN | 18 | F3 | Ctrl+X |  |
| EM | 19 | F4 | Ctrl+Y |  |
| SUB | 1A | F5 | Ctrl+Z |  |
| ESC | 1B | F6 | Ctrl+[ |  |
| FS | 1C | F7 | Ctrl+\ |  |
| GS | 1D | F8 | Ctrl+] |  |
| RS | 1E | F9 | Ctrl+6 |  |
| US | 1F | F10 | Ctrl+- |  |

### 5.9 Chinese output shielding

Enable this function，the device shields Chinese output.The user can read the following setting code to open and close the Chinese output shielding function.

 

 \*\*Chinese output shielding-OFF Chinese output shielding-ON

### 5.10 Analog keypad

#### 5.10.1 Output of numeric function of keypad

If this function is not turned on, all outputs would be output according to the corresponding key value of the large keyboard.

After this function is turned on, only the numbers "0~9" in the decoded data obtained by the reading module are output according to the key values corresponding to the small keyboard, and the rest are output according to the key values corresponding to the large keyboard.

The user can turn on and off the digital output function of the analog keypad by reading the following setting codes.

 

 Keypad Numeric Output-On \*\*Keypad Numeric Output-Off

#### 5.10.2 Output of keypad operator function

If this function is not turned on, all outputs would be output according to the corresponding key value of the large keyboard.

After this function is turned on, only "+""\_""\*""/" in the decoded data obtained by the reading module is output according to the key value corresponding to the small keyboard, and the rest is output according to the key value corresponding to the large keyboard.

The user can turn on and off the output function of analog keypad operators by reading the following setting codes.

 

Keypad Operator Output-On \*\*Keypad Operator Output-Off

### 5.11 Image Mirroring Mode

When there is mirror flip in image, you can boot the mirror flip mode by reading the following programming barcodes.

 

 Image Mirror Flip\_ON \*\*mage Mirror Flip\_OFF

Note: In the mirror flip mode, only the barcode of the mirror flip can be recognized. Please exit the mirror flip mode first before identifying the normal barcode or programming barcode.

### 5.12 Reverse Scanning Module

In some special application scenarios, special barcodes for black and white inversion need to be enabled. The user can enable/disable the reading function of inverse video code by reading the following programming barcodes.

 

\*\*Video Reverse OFF Video Reverse ON

### 5.13 Invoicing mode

In order to facilitate the use of this module in the billing system, users can configure the billing mode by reading the setting code, and realize the format conversion and output of the invoice code. Invoicing modes include local invoicing mode and online invoicing mode. When invoicing mode is enabled, local invoicing mode is used by default.

Users can realize the format conversion and output of invoice codes by reading the following setting codes.

 

\*\*Invoicing Mode Enable Invoicing Mode Disable

After the invoice mode is opened, you can select the invoicing mode by reading the following setting codes.

 

\*\*Local Invoicing Mode Online Invoicing Mode

### 5.14 Read Device Version Information

Users can quickly obtain the current device version information and all the device version information by reading the following setting codes.

 

Read device version information Read all device version information

## Chapter 6 Prefix & Suffix

In practical applications, in order to facilitate data differentiation processing, sometimes it is necessary for the read data to be edited before being output.

**Prefix & Suffix include:**

* Prefix
* Suffix
* Decode data segment interception
* Code ID
* Decoding failure feature output information (RF Information)
* Tails

**Processed output data format:**

【Prefix】【Code ID】【Data】【Suffix】【Tail】

### 6.1 Prefix

Prefix is a string of strings defined by the user before the data is decoded. The user can add and modify the prefixes by reading the following programming barcodes.

 

 Enable Prefixes \*\*Disable Prefixes

Scan the following programming barcode, with the programming barcode of "Digit Barcodes

" and the programming barcode of "save", the user can modify the prefixes.



Modify Prefix

☞ Note: A prefix has 15 characters at most and two hexadecimal values is for a prefix character. Refer to Appendix F for the hexadecimal conversion table of character values.

### 6.2 Suffix

Suffix is a string of strings defined by the user before the data is decoded. The user can add and modify the prefixes by reading the following programming barcodes.

 

 Enable Sufixes \*\*Disable Sufixes

Scan the following programming barcode, with the programming barcode of "Digit Barcodes" and the programming barcode of "save", the user can modify the suffixes.



Modify Suffix

☞ Note: A suffix has 15 characters at most and two hexadecimal values is for a prefix character. Refer to Appendix F for the hexadecimal conversion table of character values.

### 6.3 Code ID

#### 6.3.1 Custom Code ID

Code ID uses one character. Users can customize Code ID by reading the following programming barcodes to identify different barcode types.

 

 Enable Code ID \*\*Disable Code ID

Scan the following programming barcode to restore the default value of Code ID of the barcode. The default list can be found in Appendix E.



Restore Default Code ID

#### 6.3.2 Modify Code ID

Users can modify the Code ID corresponding to each barcode by reading the following programming barcodes.

 

Modify EAN13 Code ID Modify EAN8 Code ID

 

Modify UPC-A Code ID Modify UPC-E0 Code ID

 

Modify UPC-E1 Code ID Modify Code 128 Code ID

 

Modify Code 39 Code ID Modify Code 93 Code ID

 

Modify Codabar Code ID Modify Interleaved 2 of 5 Code ID

 

Modify Industrial 25 Code ID Modify Matrix 2 of 5 Code ID

 

Modify Code11 Code ID Modify MSI Plessey Code ID

 

 Modify RSS-14 Code ID Modify RSS-Limited Code ID

 

 Modify RSS-Expanded Code ID Modify QR Code Code ID

 

 Modify Data Matrix Code ID Modify PDF417 Code ID

 

 Modify Micro QR Code ID Modify Chinese Sensible(HanXin) Code ID

 

Modify Micro PDF417 Code ID Modify Standard 2 of 5 Code ID

 

 Modify Plessey Code ID Modify ChinaPost 25 Code ID

 

Modify Code 16K Code ID Modify Maxi Code Code ID



Modify Aztec Code ID

### 6.4 Tail

 

 Tail OFF \*\*CR Tail (0x0D)

 

 TAB Tail (0x09) CRLF Tail (0x0D 0x0A)

### 6.5 Data Character

#### 6.5.1 Date Character Interception

This function is used in scenarios where the user needs to output partial decoded information.

The decoding information Data consists of three parts:

【Start】【Center】【End】

The user can select some of the information that needs to be output by reading the following programming barcodes.

 

\*\*Transmit all Data Tansmit the Start Data

 

 Tansmit the END Data Tansmit the Center Data

#### 6.5.2 Modify the Length for Data

The user can modify the length of the Start Data and the length of the End Data by reading the following programming barcodes, combined with the programming barcodes of "Digit Barcodes" and "Save" . Both the Start and End segments have up to 255 characters, and both are represented by a hexadecimal character for their length. The characters which are corresponding to the hexadecimal conversion table can be found in Appendix F.

 

 Modify the Length for Start Data Modify the Length for End Data

### 6.6 RF Information

The Scan Fail (RF) information is the output information after the scanning module fails to scan the codes, so that the user or the program can adjust or operate after detecting the information. Users are free to define RF information.

Scan the following programming barcode to enable/disable RF transmitting.

 

Enable Transmitting RF Information \*\*Disable Transmitting RF Information

Scan the following programming barcode, combined with the programming barcode of "Digit Barcodes" and "save", you can modify the RF information by yourself, and two hexadecimal values is for a prefix character, there are 15 characters at most. Refer to Appendix F for the character-to-hexadecimal conversion table.



Modify RF Information

☞Note: When an odd number of hexadecimal values are input, if it is failed to set the last bit, only the first few characters are output.

### 6.7 Output Protocol

The user can decode the output format of result by reading the following programming barcodes to modify the virtual serial port/serial port mode.

The format of the decoding result with the protocol output is: <03><length><decoded data>

☞ Note: The protocol mode must adopt UTF-8 encoding output format. In other output encoding formats, only raw data can be output regardless of whether the output with protocol is selected.

 

\*\*Raw Data With Protocol

### 6.8 GS Character Replacement

GS, as a group separator, was applied to the bar code of the European Food and Drug Administration after the 2012 London Olympics. Because GS characters are invisible in many text display tools, some areas need to replace GS with displayable character output. That is, replace the 0x1D byte in the ASCII code table with the displayable byte in ASCII.

At present, the QR decoding module temporarily supports replacing GS with characters in 0x20-0x7E in ASCII.

The alternative method is as follows:

1. Read the setting code of "GS character replacement enable";
2. Read the setting code of "GS replacement character modification";
3. The characters replaced by GS are represented by two hexadecimal values, and the characters correspond to the hexadecimal conversion table refer to Appendix F
4. Read the "Save" setting code.

 

GS Character Replacement Enable \*\*GS Character Replacement Disable

Read the following setting codes, cooperate with the "data code" setting code and the "save" setting code, and the user can modify GS replacement characters.



GS Alternate Character Modification

### 6.9 Web address code recognition

Read the following setting codes, and you can set the permission and prohibition of the website code reading function

 

\*\*Enable Reading Of Web Address Codes Disable rReading Of Web Address Codes

## Chapter 7 Quick Operation

### 7.1 Fast POS Mode

POS Mode features:

* Scan mode: Command Trigger Mode
* Communication port: Serial Port
* Startup Beep OFF
* Tail OFF

Users can quickly configure the reading device to work in POS Mode by reading the following programming barcode.



Fast POS Mode

### 7.2 Serial Port & Full Codes On Mode

In order to facilitate the quick configuration and switch to the serial port and full codes open mode during the secondary development process, you can realize the quick configuration function by reading the following programming barcodes.



Serial Port & Full Codes ON

## Chapter 8 Symbologies

### 8.1 Global Shortcuts

#### 8.1.1 Global Operations

The user can globally enable/Disable and enable the default reading type for all supported code systems by reading the following programming barcodes. After reading all types of code systems, only the programming barcode is enabled.

 

Enable All Symbologies Disable All Symbologies



\*\*Enable Default Symbologies

#### 8.1.2 Product Barcode Check Digit Output Enable

The user can enable/disable the commodity barcode check digit output by reading the following programming barcode (commodity barcode includes: EAN13/EAN8/UPC-A/UPC-E0/UPC-E1).

 

 \*\*Enable Transmit Check Digit Disable Transmit Check Digit

#### 8.1.3 Enhancement of literacy

Enabling and disabling bar code reading ability enhancement can be carried out by reading the following setting codes. After the ability to read is strengthened and enabled, the ability to read special codes such as defaced bar codes and QR code surfaces can be improved. The strengthening of reading ability and prohibition would improve the decoding speed.

 

 \*\*Enhancement of literacy disable Enhancement of literacy enable

### 8.2 1D Symbologies

#### 8.2.1 EAN 13

**1. Enable or Disable EAN13**

The user can enable and disable the EAN13 barcode reading function by reading the following programming barcodes.

 

\*\*Enable EAN13 Disable EAN13

**2. Enable or Disable Add-On Code**

The user can enable and disable the forced output function of EAN13 add-on code by reading the following programming barcodes.

 

 EAN13 Add-On Code Required \*\*EAN13 Add-On Code Not Required

The user can enable and disable the configuration of the EAN13 add-on code by reading the following programming barcodes.

 

 Enable EAN13-2 Digit Add-On Code \*\*Disable EAN13-2 Digit Add-On Code

 

 Enable EAN13-5 Digit Add-On Code \*\*Disable EAN13-5 Digit Add-On Code

1. **Check bit Output Function Enable and Disable**

 

\*\*Enable Transmission of EAN13 Parity Bits Disable Transmission of EAN13 Parity Bits

#### 8.2.2 EAN 8

**1. Enable or Disable EAN8**

The user can enable and disable the EAN8 barcode reading function by reading the following programming barcodes.

 

 \*\*Enable EAN8 Disable EAN8

1. **Enable or Disable Add-On Code**

The user can enable and disable the forced output function of EAN8 add-on code by reading the following programming barcodes.

 

 EAN8 Add-On Code Required \*\*EAN8 Add-On Code Not Required

The user can enable and disable the configuration of the EAN8 add-on code by reading the following programming barcodes.

 

Enable EAN8-2 Digit Add-On Code \*\*Disable EAN8-2 Digit Add-On Code

 

Enable EAN8-5 Digit Add-On Code \*\*Disable EAN8-5 Digit Add-On Code

1. **Check bit Output Function Enable and Disable**

 

\*\*Enable Transmission of EAN8 Parity Bits Disable Transmission of EAN8 Parity Bits

#### 8.2.3 UPC-A

**1. Enable or Disable UPC-A**

The user can scan and disable the UPC-A barcode reading function by reading the following programming barcodes.

 

\*\*Enable UPC-A Disable UPC-A

1. **Enable or Disable Add-On Code**

The user can enable and disable the forced output function of UPC-A add-on code by reading the following programming barcodes.

 

UPC-A Add-On Code Required \*\*UPC-A Add-On Code Not Required

The user can enable and disable the configuration of the UPC-A add-on code by reading the following programming barcodes.

 

Enable UPC-A-2 Digit Add-On Code \*\*Disable UPC-A-2 Digit Add-On Code

 

Enable UPC-A-5 Digit Add-On Code \*\*Disable UPC-A-5 Digit Add-On Code

1. **Enable Conversion from UPC-A to EAN13**

The user can enable/disable the conversion of UPC-A to EAN13 by reading the following programming barcodes.

 

 Enable UPC-A to EAN13 \*\*Disable UPC-A to EAN13

1. **Check bit Output Function Enable and Disable**

 

\*\*Enable Transmission of UPCA Parity Bits Disable Transmission of UPCA Parity Bits

#### 8.2.4 UPC-E0

**1. Enable or Disable UPC-E0**

The user can scan and disable the UPC-E0 barcode reading function by reading the following programming barcodes.

 

 \*\*Enable UPC-E0 Disable UPC-E0

**2. Enable or Disable Add-On Code**

The user can enable and disable the forced output function of UPC-E0 add-on code by reading the following programming barcodes.

 

 UPC-E0 Add-On Code Required \*\*UPC-E0 Add-On Code Not Required

The user can enable and disable the configuration of the UPC-E0 add-on code by reading the following programming barcodes.

 

Enable UPC-E0-2 Digit Add-On Code \*\*Disable UPC-E0-2 Digit Add-On Code

 

 Enable UPC-E0-5 Digit Add-On Code \*\*Disable UPC-E0-5 Digit Add-On Code

**3.Check bit Output Function Enable and Disable**

 

\*\*Enable Transmission of UPC-E0 Parity Bits Disable Transmission of UPC-E0 Parity Bits

#### 8.2.5 UPC-E1

**1. Enable or Disable UPC-E1**

The user can enable and disable the UPC-E1 barcode reading function by reading the following programming barcodes.

 

 \*\*Enable UPC-E1 Disable UPC-E1

**2. Enable or Disable Add-On Code**

The user can enable and disable the forced output function of UPC-E1 add-on code by reading the following programming barcodes.

 

 UPC-E1 Add-On Code Required \*\*UPC-E1 Add-On Code Not Required

The user can enable and disable the configuration of the UPC-E1 add-on code by reading the following programming barcodes.

 

 Enable UPC-E1-2 Digit Add-On Code \*\*Disable UPC-E1-2 Digit Add-On Code

 

 Enable UPC-E1-5 Digit Add-On Code \*\*Disable UPC-E1-5 Digit Add-On Code

**3. Check bit Output Function Enable and Disable**

 

\*\*Enable Transmission of UPC-E1 Parity Bits Disable Transmission of UPC-E1 Parity Bits

#### 8.2.6 Code128

**1. Enable or Disable Code128**

The user can enable and disable the Code128 barcode reading function by reading the following programming barcodes.

 

 \*\*Enable Code128 Disable Code128

**2. Set Length Range for Code128**

Users can set the minimum and maximum length of Code128 by reading the following programming barcodes.

 

\*\*Set the Minimum Length for Code128 to 0 Set the Minimum Length for Code128 to 4

 

Set the Maximum Length for Code128 to 32 \*\*Set the Maximum Length for Code128 to 255

**3. Code 128 prefixed (11)**

The user can turn on or off the Code128 barcode prefix (11) function by reading the following setting codes.

 

 Code128 Prefix (11)-On \*\*Code128 Prefix (11)-Off

#### 8.2.7 Code39

**1. Enable or Disable Code39**

The user can enable and disable the Code39 barcode reading function by reading the following programming barcodes.

 

 \*\*Enable Code39 Disable Code39

**2. Set Length Range for Code39**

Users can set the minimum and maximum length of Code39 by reading the following programming barcodes.

 

\*\*Set the Minimum Length for Code39 to 0 Set the Minimum Length for Code39 to 4

 

 Set the Maximum Length for Code39 to 32 \*\*Set the Maximum Length for Code39 to 255

**3.Transmit Start/Stop Character**

The user can set the output of Code39 Start/Stop Character by reading the following programming barcodes.

 

 Output of Code39 Start Character \*\*Disable Output of Code39 Stop Character

 

 Output of Code39 Stop Character \*\*Disable Output of Code39 Stop Character

**4. Code32 Mode**

Users can choose whether Code39 supports Code32 mode by reading the following programming barcodes.

 

 Support Code32 Mode \*\*Disable Support Code32 Mode

Users can choose whether Code 32 outputs the prefix A by reading the following programming barcodes.

 

 \*\*the output of Code 32 prefix A Disable output of Code 32 prefix A

**5. FullAsc Mode**

Users can choose whether Code39 supports FullAsc mode by reading the following programming barcodes.

 

 Support FullAsc Mode \*\*Disable Support FullAsc Mode

**6. Proces Verification**

The user can set whether Code39 handles verification by reading the following setting code.

 

 Code 39 Handles Verification \*\*Code 39 Does Not Handle Verification

**7. Parity bit Output**

The user can set whether Code39 outputs check bits by reading the following setting codes.

 

 Code39 Outputs Parity Bits \*\*Code39 Does Not Output Parity Bits

#### 8.2.8 Code93

**1. Enable or Disable Code93**

The user can enable and disable the Code93 barcode reading function by reading the following programming barcodes.

 

 \*\*Enable Code93 Disable Code93

**2. Set Length Range for Code93**

Users can set the minimum and maximum length of Code93 by reading the following programming barcodes.

 

\*\*Set the Minimum Length for Code93 to 0 Set the Minimum Length for Code93 to 4

 

Set the Maximum Length for Code93 to 32 \*\*Set the Maximum Length for Code93 to 255

#### 8.2.9 CodaBar

**1. Enable or Disable CodaBar**

The user can enable and disable the CodaBar barcode reading function by reading the following programming barcodes.

 

 \*\*Enable CodaBar Disable CodaBar

**2. Set Length Range for CodaBar**

Users can set the minimum and maximum length of CodaBar by reading the following programming barcodes.

 

\*\*Set the Minimum Length for CodaBar to 0 Set the Minimum Length for CodaBar to 4

 

Set the Maximum Length for CodaBar to 32 \*\*Set the Maximum Length for CodaBar to 255

**3. Transmit Start/Stop Character**

The user can set the output of CodaBar Start/Stop Character by reading the following programming barcodes.

 

Output of CodaBar Start/Stop Character \*\*Disable Output of CodaBar Start/Stop Character

**4. Verification Processing**

The user can set CodaBar check processing by reading the following setting codes.

 

 \*\*CodaBar Do Not Process Verification CodaBar Mod10 Check

 

 CodaBar Mod16 Check CodaBar Double Check

**5. Parity Bit Output Setting**

The user can set the output of CodaBar check bits by reading the following setting codes.

 

 CodaBar Parity Bit Output \*\*CodaBar Parity Bit Not Output

#### 8.2.10 Interleaved 2 of 5

**1. Enable or Disable Interleaved 2 of 5**

The user can enable and disable the Interleaved 2 of 5 barcode reading function by reading the following programming barcodes.

 

 Enable Interleaved 2 of 5 \*\*Disable Interleaved 2 of 5

**2. Set Length Range for Interleaved 2 of 5**

Users can set the minimum and maximum length of Interleaved 2 of 5 by reading the following programming barcodes.

 

 Set the Minimum Length to 0 \*\*Set the Minimum Length to 4

 

 \*\*Set the Maximum Length to 32 Set the Maximum Length to 255

**3. Verify Format Setting**

The user can set whether Interleaved 2 of 5 processes verification by reading the following setting code.

 

Interleaved 2 of 5 Verification Format Mod10 \*\*Interleaved 2 of 5 Verification Format NONE

**4. Parity Bit Output Setting**

The user can set whether Interleaved 2 of 5 outputs check bits by reading the following setting code.

 

Interleaved 2 of 5 Outputs Parity Bits \*\*Interleaved 2 of 5 Does Not Output Parity Bits

#### 8.2.11 Industrial 25

**1. Enable or Disable Industrial 25**

 The user can enable and disable the Industrial 25 barcode reading function by reading the following programming barcodes.

 

 Enable Industrial 25 \*\*Disable Industrial 25

**2. Set Length Range for Industrial 25**

Users can set the minimum and maximum length of Industrial 25 by reading the following programming barcodes.

 

Set the Minimum Length to 0 \*\*Set the Minimum Length to 4

 

 \*\*Set the Maximum Length to 32 Set the Maximum Length to 255

**3. Verify Format Setting**

The user can set whether Industrial 25 processes verification by reading the following setting code.

 

Industrial 25 Verification Format Mod10 \*\*Industrial 25 Verification Format NONE

**4. Parity Bit Output Setting**

The user can set whether Industrial 25 outputs check bits by reading the following setting code.

 

 Industrial 25 Outputs Parity Bits \*\*Industrial 25 Does Not Output Parity Bits

#### 8.2.12 Matrix 2 of 5

**1. Enable or Disable Matrix 2 of 5**

The user can enable and disable the Matrix 2 of 5 barcode reading function by reading the following programming barcodes.

 

Enable Matrix 2 of 5 \*\*Disable Matrix 2 of 5

**2. Set Length Range for Matrix 2 of 5**

Users can set the minimum and maximum length of Matrix 2 of 5 by reading the following programming barcodes.

 

Set the Minimum Length to 0 \*\*Set the Minimum Length to 4

 

 \*\*Set the Maximum Length to 32 Set the Maximum Length to 255

**3. Verify Format Setting**

The user can set whether Matrix 2 of 5 processes verification by reading the following setting code.

 

 Matrix 2 of 5 Verification Format Mod10 \*\*Matrix 2 of 5 Verification Format NONE

**4. Parity Bit Output Setting**

The user can set whether Matrix 2 of 5 outputs check bits by reading the following setting code.

 

 Matrix 2 of 5 Outputs Parity Bits \*\*Matrix 2 of 5 Does Not Output Parity Bits

#### 8.2.13 Code11

**1. Enable or Disable Code11**

The user can enable and disable the Code11 barcode reading function by reading the following programming barcodes.

 

 Enable Code11 \*\*Disable Code11

**2. Set Length Range for Code11**

Users can set the minimum and maximum length of Code11 by reading the following programming barcodes.

 

Set the Minimum Length for Code11 to 0 \*\*Set the Minimum Length for Code11 to 4

 

\*\*Set the Maximum Length for Code11 to 32 Set the Maximum Length for Code11 to 255

**3. Setting of Check Format**

The user can set the check format of Code11 by reading the following programming barcode.

 

 \*\*Check Code11-1bit Check Code11-2bit

**4. Parity Bit Output Setting**

The user can set whether Code11 outputs check bits by reading the following setting code.

 

 Code11 Outputs Parity Bits \*\*Code11 Does Not Output Parity Bits

#### 8.2.14 MSI Plessey

**1. Enable or Disable MSI Plessey**

 

Enable MSI Plessey \*\*Disable MSI Plessey

**2. Set Length Range for MSI Plessey**

Users can set the minimum and maximum length of MSI Plessey by reading the following programming barcodes.

 

Set the Minimum Length for MSI Plessey to 0 \*\*Set the Minimum Length for MSI Plessey to 4

 

\*\*Set the Maximum Length for MSI Plessey to 32 Set the Maximum Length for MSI Plessey to 255

**3. Verify Format Setting**

The user can set whether MSI Plessey processes verification by reading the following setting code.

 

 Single Mod10 \*\*Double Mod10

**4. Parity Bit Output Setting**

The user can set whether MSI Plessey outputs check bits by reading the following setting code.

 

 MSI Plessey Outputs Parity Bits \*\*MSI Plessey Does Not Output Parity Bits

#### 8.2.15 RSS-14

**1. Enable or Disable RSS-14**

The user can enable and disable the RSS-14 barcode reading function by reading the following programming barcodes.

 

 Enable RSS-14 \*\*Disable RSS-14

**2. AI () output enable and disable**

The user can set whether RSS-14 barcode AI () is output by reading the following setting codes.

 

\*\*RSS-14 AI Output with Parentheses RSS-14 AI Output Without Parentheses

#### 8.2.16 RSS-Limited

**1. Enable or Disable RSS-Limited**

The user can enable and disable the RSS-Limited barcode reading function by reading the following programming barcodes.

 

 Enable RSS-Limited \*\*Disable RSS-Limited

**2. AI () output enable and disable**

The user can set whether RSS-Limited barcode AI () is output by reading the following setting codes.

 

\*\*RSS-Limited AI Output with Parentheses RSS-Limited AI Output Without Parentheses

#### 8.2.17 RSS-Expanded

**1. Enable or Disable RSS-Expanded**

The user can enable and disable the RSS-Expanded barcode reading function by reading the following programming barcodes.

 

Enable RSS-Expanded \*\*Disable RSS-Expanded

**2. Set Length Range for RSS-Expanded**

 

 Set the Minimum Length to 0 \*\*Set the Minimum Length to 4

 

 \*\*Set the Maximum Length to 32 Set the Maximum Length to 255

**3. AI () output enable and disable**

The user can set whether RSS-Expanded barcode AI () is output by reading the following setting codes.

 

\*\*RSS-Expanded AI Output with Parentheses RSS-Expanded AI Output Without Parentheses

#### 8.2.18 Standard 2 of 5

**1. Enable or Disable Standard 2 of 5**

 

Enable Standard 2 of 5 \*\*Disable Standard 2 of 5

**2.Set Length Range for Standard 2 of 5**

Users can set the minimum and maximum length of Standard 2 of 5 by reading the following programming barcodes.

 

Set the Minimum Length to 0 \*\*Set the Minimum Length to 4

 

\*\*Set the Maximum Length to 32 Set the Maximum Length to 255

**3. Verify Format Setting**

The user can set whether Standard 2 of 5 processes verification by reading the following setting code.

 

Verify ON \*\*Verify OFF

**4. Parity Bit Output Setting**

The user can set whether Standard 2 of 5 outputs check bits by reading the following setting code.

 

Standard 2 of 5 Outputs Parity Bits \*\*Standard 2 of 5 Does Not Output Parity Bits

#### 8.2.19 Plessey

**1. Enable or Disable Plessey**

 

 Enable Plessey \*\*Disable Plessey

**2. Set Length Range for Plessey**

Users can set the minimum and maximum length of Plessey by reading the following programming barcodes.

 

Set the Minimum Length to 0 \*\*Set the Minimum Length to 4

 

 \*\*Set the Maximum Length to 32 Set the Maximum Length to 255

**3. Verify Format Setting**

The user can set whether Plessey processes verification by reading the following setting code.

 

Verify ON \*\*Verify OFF

**4. Parity Bit Output Setting**

The user can set whether Plessey outputs check bits by reading the following setting code.

 

 Plessey Outputs Parity Bits \*\*Plessey Does Not Output Parity Bits

#### 8.2.20 ChinaPost 25

**1. Enable or Disable ChinaPost 25**

 

Enable ChinaPost 25 \*\*Disable ChinaPost 25

**2. Set Length Range for ChinaPost 25**

Users can set the minimum and maximum length of ChinaPost 25 by reading the following programming barcodes.

 

Set the Minimum Length to 0 \*\*Set the Minimum Length to 4

 

\*\*Set the Maximum Length to 32 Set the Maximum Length to 255

**3. Verify Format Setting**

The user can set whether ChinaPost 25 processes verification by reading the following setting code.

 

Verify ON \*\*Verify OFF

**4. Parity Bit Output Setting**

The user can set whether ChinaPost 25 outputs check bits by reading the following setting code.

 

ChinaPost 25 Outputs Parity Bits \*\*ChinaPost 25 Does Not Output Parity Bits

### 8.3 Operation of 2D Symbologies

#### 8.3.1 QR Code

**1. Enable or Disable QR Code**

The user can enable and disable the QR Code barcode reading function by reading the following programming barcodes.

 

 \*\*Enable QR Disable QR

**2. Enable or Disable QR Mode1**

The user can enable and disable the QR Mode1 reading function by reading the following programming barcodes.

 

Enable QR Mode1 \*\*Disable QR Mode1

**3. QR Code prefixed (11)**

The user can turn on or off the e QR barcode prefix (11) function by reading the following setting codes.

 

QR Prefix (11)-On \*\*QR Prefix (11)-Off

#### 8.3.2 Data Matrix (DM)

The user can enable and disable the Data Matrix reading function by reading the following programming barcodes.

 

\*\*Enable DM Disable DM

The user can enable and disable simultaneous multiple DM code reading function by reading the following programming barcodes.

 

Enable Multiple DM \*\*Disable Multiple DM

#### 8.3.3 PDF417

The user can enable and disable the PDF417 barcode reading function by reading the following programming barcodes.

 

 \*\*Enable PDF417 Disable PDF417

#### 8.3.4 Mico QR

The user can enable and disable the Mico QR barcode reading function by reading the following programming barcodes.

 

 \*\*Enable Mico QR Disable Mico QR

#### 8.3.5 Chinese Sensible(HanXin) Code

The user can enable and disable the Chinese Sensible(HanXin) Code reading function by reading the following programming barcodes.

 

Enable Chinese Sensible(HanXin) Code \*\*Disable Chinese Sensible(HanXin) Code

#### 8.3.6 Micro PDF 417

The user can enable and disable the Micro PDF 417 barcode reading function by reading the following programming barcodes.

 

 \*\*Enable Micro PDF 417 Disable Micro PDF 417

#### 8.3.7 Code 16K

**1. Enable or Disable Code 16K**

The user can enable and disable the Code 16K barcode reading function by reading the following programming barcodes.

 

 Enable Code 16K \*\*Disable Code 16K

**2. Set Length Range for Code 16K**

 

 Set the Minimum Length to 0 \*\*Set the Minimum Length to 4

 

 \*\*Set the Maximum Length to 32 Set the Maximum Length to 255

#### 8.3.8 Maxi Code

The user can enable and disable the Maxi Code reading function by reading the following programming barcodes.

 

 Enable Maxi Code \*\*Disable Maxi Code

#### 8.3.9 Aztec

The user can enable and disable the Aztec barcode reading function by reading the following programming barcodes.

 

 Enable Aztec \*\*Disable Aztec

## Chapter 9 Save and Cancle

### 9.1 Save

After reading the "Digit Barcodes", you need to read the programming barcode of "Save" to save the data.



 Save

### 9.2 Cancel

When an error occurs in the scanned data, the following programming barcode can be scanned to cancel the current setting, also one bit of data which is previous scanned, and a string of data which is previous scanned.

 

 Cancel the Last Digit Cancel All Digits



 Cancel Current Setting

☞ Note: Cancelling the current setting means cancelling all the Digit Barcodes that were scan, and reset shall be conducted after canceling.

## Appendix

### Appendix A: Digit Barcodes

#### 0 ～ 9

 

0 1

 

2 3

 

4 5

 

6 7

 

8 9

#### A ～ F

 

A B

 

C D

 

E F

### Appendix B: Example of Parameter Settings

* Example 1: Modify the prefix to DATA

 1. Query the character table to obtain the hexadecimal values corresponding to the four characters of "DATA": "44", "41", "54", "41"

2. Scan "Enter Setup"; (If it has been enabled, you can skip this step)

3. Scan the programming barcode of "Modify Prefix"

4. Scan the Digit Barcodess of "4" "4" "4" "1" "5" "4" "4" "1"

5. Scan the programming barcode of "Save"

* Example 2: Modify the suffix to DATA

1. Query the character table to obtain the hexadecimal values corresponding to the four characters of "DATA": "44", "41", "54", "41"

2. Read "Enter Setup"; (If it has been enabled, you can skip this step)

3. Read the the programming barcode of "Modify Suffix" programming barcode

4. Read the Digit Barcodess of "4" "4" "4" "1" "5" "4" "4" "1"

5. Read the programming barcode of "Save"

* Example 3: Modify EAN13 Code ID to "A"

1. Query the character table to obtain the hexadecimal value corresponding to the "A" character: "41"

2. Read "Enter Setup"; (If it has been enabled, you can skip this step)

3. Read the the programming barcode of "Modify EAN13 Code ID"

4. Read the Digit Barcodess of "4" "1" one by one.

5. Read the the programming barcode of "Save"

* Example 4:

[ Tansmit the Start Data ] If the decoding information is "1234567890ABC", the first 10 bytes "1234567890" shall be output.

1. Query the character table to obtain the hexadecimal value corresponding to the "10" character: "0A"

2. Read "Enter Setup"; (If it has been enabled, you can skip this step)

3. Read the programming barcode of " Modify the Length for Start Data"

4. Read the Digit Barcodess of "0" "A" in turn.

5. Read the programming barcode of "Save"

6. Read the programming barcode of "Tansmit the Start Data "

* Example 5:

[Tansmit the End Data ] If the decoding information is "1234567890ABC", the first 10 bytes "1234567890" shall be output.

1. Query the character table to obtain the hexadecimal value corresponding to the "10" character: "0A"

2. Read "Enter Setup"; (If it has been enabled, you can skip this step)

3. Read the programming barcode of " Modify the Length for End Data"

4. Read the Digit Barcodess of "0" "A" in turn.

5. Read the programming barcode of "Save"

6. Read the programming barcode of "Tansmit the End Data"

* Example 6:

[Tansmit the Center Data] If the decoding information is "1234567890ABC1234567890", the middle 3 bytes "ABC" shall be output.

1. Query the character table to obtain the hexadecimal value corresponding to the "10" character: "0A"

2. Read "Enter Setup"; (If it has been enabled, you can skip this step)

3. Read the programming barcode of "Modify the Length for End Data"

4. Read the Digit Barcodess of "0" "A" in turn.

5. Read the programming barcode of "Save"

6. Read the programming barcode of "Modify the Length for Start Data"

7. Read the Digit Barcodess of "0" "A" in sequence.

8. Read the programming barcode of "Save"

9. Read the programming barcode of "Tansmit the Center Data"

* Example7: Modify the RF information to "FAIL"

1. Query the character table to obtain the hexadecimal value corresponding to the "FAIL" character: "46" "41" "49" "4C"

2. Read "Enter Setup"; (If it has been enabled, you can skip this step)

3. Read the programming barcode of "Modify RF Information"

4. Read the Digit Barcodess of "4" "A", "4", "1", "4", "9", "4", "C" in turns

5. Read the programming barcode of "Save"

* Example 8: Modify GS to replace the character with "D"

1. Query the character table to obtain the hexadecimal value corresponding to the "D" character: "44"

2. Read "Enter Setup"; (If it has been enabled, you can skip this step)

3. RRead the programming barcode of "GS Character Replacement Enable"

4. Read the programming barcode of "GS Replacement Character Modification"

5. Read the data codes "4" and "4" in turn

6. Read the programming barcode of "Save"

### Appendix E: Code ID List

|  |  |  |
| --- | --- | --- |
| Barcode Type  | Corresponding Tharacter  | Flag Bit Address |
| EAN-13 | d | 0x91 |
| EAN-8 | d | 0x92 |
| UPC-A | c | 0x93 |
| UPC-E0 | c | 0x94 |
| UPC-E1 | c | 0x95 |
| Code 128 | j | 0x96 |
| Code 39 | b | 0x97 |
| Code 93 | i | 0x98 |
| Codabar | a | 0x99 |
| Interleaved 2 of 5 | e | 0x9A |
| Industrial 2 of 5 | D | 0x9B |
| Matrix 2 of 5 | v | 0x9C |
| Code 11 | H | 0x9D |
| MSI Plessey | m | 0x9E |
| GS1 Databar(RSS-14) | R | 0x9F |
| GS1 Databar(RSS-Limited) | R | 0xA0 |
| GS1 Databar(RSS-Expanded) | R | 0xA1 |
| QR Code | Q | 0xA2 |
| Data Matrix | u | 0xA3 |
| PDF 417 | r | 0xA4 |
| Micro QR | X | 0xA5 |
| Chinese Sensible(HanXin) Code | h | 0xA6 |
| Micro PDF417 | R | 0xA7 |
| Standard 2 of 5 | f | 0xA8 |
| Plessey | n | 0xA9 |
| ChinaPost 25 | X | 0xAA |
| Code 16K | X | 0xAB |
| Code 49 | X | 0xAC |
|  Maxi Code | x | 0xAD |
| Aztec | z | 0xAE |

### Appendix F: ASCII Table

|  |  |  |
| --- | --- | --- |
| Hexadecimal | Decimal | 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) |
| 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 |
| 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 |
| 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) |