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1. **User settings manual**

# Basic Information

## Factory Default

1. way of communication：USB KBW
2. Trigger mode：Button hold

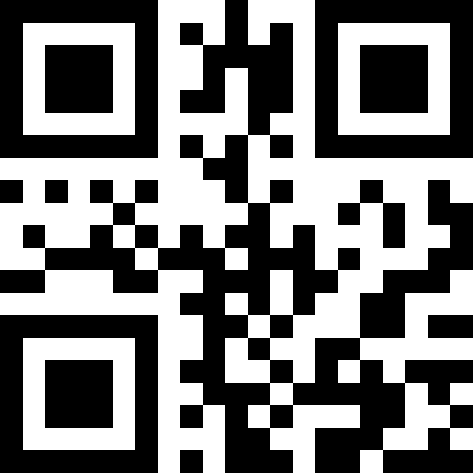
Terminator：Enter(\r)。



Factory Default

## Save current configuration as default configuration

1. Users can set the configuration as required according to the usage environment.Then scan saves the current configuration as the default configuration, and the settings become the default settings (customer configuration)



1. Save current configuration as factory default

## Default configuration(customer configuration)

1. When the user sets the default settings (customer configuration),scan the default configuration (customer configuration), all can be restored to the original customer configuration



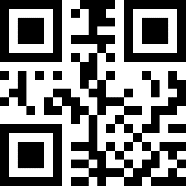
## Default configuration(customer configuration)

## Setting code switch

**\* ON OFF**

## Product information



# Wireless part setting

## Bluetooth pairing setting code

**R&B4.0 wireless scanning gun is compatible with 2.4g, bluetooth BLE4.0 communication, the engine and host through TTL/RS232 communication docking, the engine head communication mode needs to be set to serial communication (wireless setting), baud rate is 15200bps (bluetooth setting).**



TTL/RS232（Wireless Setting）

****

**115200bps（Bluetooth Setting）**

1. 2.4g communication was used when R&B4.0 wireless scanning gun was connected with the supporting u-disk receiver; It can also be paired with any bluetooth mobile device. The pairing is as follows：

①When the R&B scanner gun is connected to the matching u-disk receiver, plug in the receiver, and when the blue light is flashing: scan the pairing code I and II for pairing:

The pairing code I



disconnect

The pairing code II

connect

②When R&B scanner gun is connected to bluetooth device: scan the pairing code I and II for pairing:

(after scanning the pairing code, open the bluetooth device for bluetooth search and connection)

The pairing code I



disconnect

The pairing code II



connect

# 2. Show and hide keyboard (for apple devices only)



## Show or hide the keyboard

## 3. Mode selection



Instant upload mode



Inventorymode 

Hyperspace storage mode

①Operation in stocktaking mode



Upload all data



Upload new data



Show saved data



Show upload data



Clear all the data

## 4. Singlechip restore factory setup



Set upload data delay (valid when connecting to cell phone)



No delay



delayed

1. Query software version



Query scanner sofeware version



Query the receiving end version number

1. Set the sleep time

X=1yyy (xxx1000 is non-dormant, sleep time formula: yyy\*10=z seconds)



non-dormant



60 seconds



120 seconds



5 minutes



10 minutes

**Set bluetooth broadcast time**

X=2yyy(Broadcast formula：yyy\*5=z s）

Note: the minimum broadcast time is 30 seconds



30s



60s



120s

## 9.USB KBW

When the reading mode is connected to the host using the USB cable, the reading mode can be configured as a standard keyboard by scanning the USB KBW setting code.

。



**USB KBW keyboard**

## 10.USB COM keyboard

When the reading mode is connected to the host using the USB cable, the reading mode can be configured as a virtual serial port output mode by scanning the USB COM setting code



**USB COM**

## Chinese Settings



Chinese is not supported



Support Chinese

## Transmission speed selection



Don't delay



Delay 5 ms



Delay 10 ms



Delay 15 ms



Delay 20 ms



Delay 25 ms



Delay 30 ms



Delay 35 ms



Delay 40 ms



Delay 45 ms

# Reading mode

## Manual mode

### （1）Button hold mode

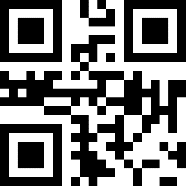
Set to the button hold mode, press the button to trigger the reading, release the button to end the reading. The reading is successful if the reading is successful or the reading time exceeds the single reading time



**\* Manual mode-button hold mode**

### （2）Button trigger mode

Set to the button trigger mode, press the button to start reading, release the button to read will not stop, read successfully or read more than a single reading time to stop reading



**\* Manual mode-button trigger**

## Continuous mode

1. Set to continuous mode, no triggering is required, the reading mode immediately starts reading the code, the reading is successful or the reading time exceeds the single reading time to end the reading, and the next reading is automatically triggered



**Continuous mode**

## （1）Reading interval length

The interval between two readings in continuous mode. Regardless of the success or failure of the last reading, it will automatically enter the next reading after that time.

Default：500ms，unit：100ms，range：0-9900ms

Set the reading interval by scanning the barcode,for example：

Setting 0.5ms,scan the barcode below first, then scan the barcode “0” and “5” of the digital setting code.



**Reading interval length**

## Auto-sensing Mode

1. In the auto-sensing mode, the recognition engine detects the brightness of the surrounding environment. When the brightness changes, it triggers the reading, the read success or the recognition time exceeds the single reading time to finish the reading. Whether successful or failed in the last reading, re-enter the detection of the brightness of the surrounding environment



**Auto-sensing Mode**

## （1）Stable Induction Time

Stable time before entering the test environment, default: 500ms, unit: 100ms, range: 0-9900ms

You can set a stable induction time by scanning a bar code, example:

for 200ms，to scan following code, then scan numeric code “0”and”2”

for 1500ms，to scan following code, then scan numeric code “1”and”5”

****

**Stable Induction Time**

## （2）Sensitivity rating setting

There are three levels of sensitivity to choose, default: high sensitivity

****

**\* High**

****

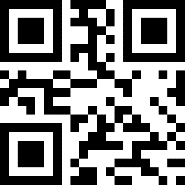
**Middle**

****

**low**

## Host Mode

Through instruction trigger reading engine read, you can finish reading by instruction, or you can finish reading if you read successfully or more than one read.。



Host mode

## Single Scanning Duration

1. This parameter is the duration of a single decode, with a setting range of 0.5 to 25.5 seconds and a step of 0.1 seconds. The default duration is 3 seconds. If you want to set it to a different length, you can scan the bar code below. Scan the 3 digit settings code in the appendix to set the required time, less than 3 bits are offset with 0.
2. ou can set a stable induction time by scanning a bar code, example:
3. For 0.5s，to scan following code,then scan numeric code “0” and “5”.
4. For 10.5s，to scan following code,then scan numeric code “1”,”0” and “5”.



## Single Scanning Time

## Same Read Time Interval

The same reading time interval refers to read a bar code, within a set period of time, refuse to read the same bar code. Only after more than the length of time, you can read and output. Default: 500ms, step: 100ms, range: 0-9900ms, mainly for continuous mode and automatic induction mode.

You can set the same read time interval by scanning the bar code. Example:

For 0.5s，to scan following code,then scan numeric code “0” and “5”。



**Same Read Time Interval**

## Same code read shortcut setting

No delay delay 1s  delay 3s

delay 5s delay 7s Infinite delay

# Lighting and aiming

## Lighting

Lighting could provide supplementary lighting for shooting to read, when light beam illuminate reading aim,to improve reading ability and adaptability in weak ligh. The user could set it to one of the following states according to the application.

**Normal**（Factory Default） ：The light is on when shooting to read, off in other time.

**Always light**：The lights keep glowing after reading module is on.

**No Light**：The lights don’t light up in any cases。



**\* Normal**



**Always light**



**No Light**

## aiming

Aiming beam could help users to find the best reading distance when shooting to read. The user could choose one of the following states according to the application. **Normal**（Factory Default） ：Reading module project aiming beam when shooting to read

**Always Light**：After reading module power on, always project aiming beam

**No Light**：Aiming beam is off in any case

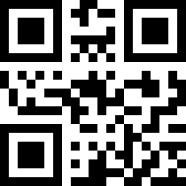
**Flicker：**Aiming beam flicker when projecting aiming beam

**No Flicker：**The aiming beam does not flicker when projecting the aiming beam

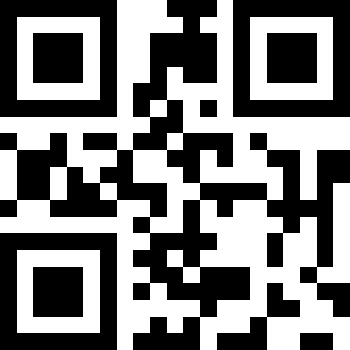
**Note:** Flicker and no Flicker functions only work when aiming LED is set to Normal or always light. After LED is set to no light, if you need to set LED Flicker function, please first set aiming LED to normal or always light.



**\* Normal**

**Always light NO light**

**Flicker No Flicker**

# 五、Output Instruction

## Keyboard

## Multinational keyboard

When the engine is recognized as a keyboard input device, some of the input characters vary from country to country, and different languages are required. The keyboard defaults to USA English.



**\* USA**



**Belgium**



**Finland**



**France**



**Germany**



**Italy**



**Sweden**



**UK**



**Denmark**



**Norway**



**Spanish**

  **Portugal**



**Turkey F**



**Turkey Q**



**Japan**



**Brazil**



**Czech**



**Canada**



**Hungary**



**Netherlands**



**Poland**



**Slovakia**



**Slovenia**



**Switzerland-French**



**Switzerland-German**

## Keyboard type

When the virtual keyboard is enabled, the correct data can be output in any keyboard language mode. When using a virtual keyboard, you must ensure that the keypad number keys are enabled.

\*Standard keyboard virtual keyboard

## Keyboard output character time interval

Keyboard output character interval, range 0-1000ms, unit: 5ms, default: 5ms

0ms 10ms

## Keyboard Ctrl key combination

When this function is enabled, the ASCII control character between 0x00~0x1F becomes the output Ctrl combination control key. The combination key details reference attachment



**\*Disable**

**(0x00)**



**Enable**

**(0x01)**

## Beeper Sound Settings

## Silent mode

Turn off or disable all beeps, scan the corresponding bar code below

****

**Turn off**

****

**\*disable turn off**

## Volume level

There are three levels of volume level to choose from, default: high

****

**\*High**

****

**Middle**

****

**Low**

## Decoding successful tone

****

**\*turn on**

****

**Turn off**

## Boot Prompt Tone

****

**\*On**

****

**Off**

## Setting code prompt tone

****

**\*On**

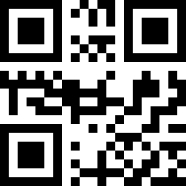
****

**Off**

## Decoding status prompt

Before the trigger button is released, if the barcode cannot be decoded within the timeout period, a message of "no read" is allowed to be sent. Any feasible prefix or suffix can be attached to this message

When this feature is disabled, no message can be sent to the host even if the barcode cannot be decoded.

****

**\*disable send NR**

****

**Enable send NR**

## Output forced letter case conversion

Keyboard alphabetic conversion. When you output a bar code with letter content, you can configure the output to be all uppercase or lowercase. For example, if the bar code is: ab123de, if "converted to uppercase" bar code, output result is: AB123DE; if sweep "convert to lowercase" bar code, output result is: abc123de; default keyboard is case-insensitive.



**\*Disable**



**Uppercase**



**Lowercase**



**Case Reverse**

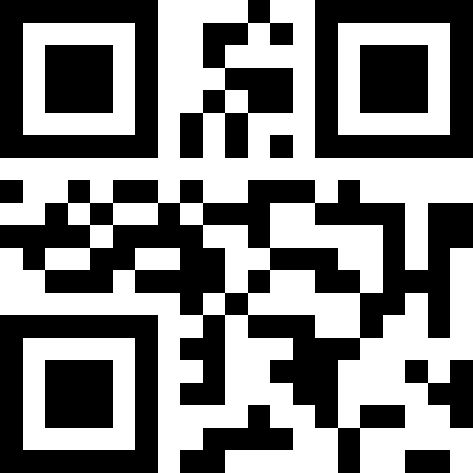
## 3.Data Coding Format

In order to enable the host to print Chinese data in the specified encoding format, it can be set by reading the data encoding format.

0:Primitive Type,

1:GBK(GB2312),suitable for notepad excel and other software display.

2:UNICODE,,suitable for WORD,QQa and othe software display.



**Primititive Type**



**\*GBK Data Coding Format**

****

**Unicode**

## Value added tax invoice automatic identification output function



**On**



**\*Off**

# 六、Data Edition

## Code ID

Users can use code id to identify different barcode types, each barcode type corresponding to the code id using a character for identification, see appendix 3.



**\*No-permitted Transmitting ID**



**Permit Transmitting ID**

## Ending Character

The terminated character is to add the character format after decoding data: Decoding Data+Character Terminated。



**\*No Ending Character**



**# &CR LF**

****

**%CR**

****

**TAB**



**CR CR**



**CR LF CR LF**

## Prefix&Suffix

（1）Setting Code

Peffix Suffix一 Suffix二

（2）Define Preffix and Suffix Content

A prefix or two suffixes can be attached to the scanned data for data editing. Set these values to scan a four-digit number (ie four barcodes) corresponding to the ASCII value.

Example: The letter A corresponds to a value of 1065, which scans the digital code 1 0 6 5 in sequence. See Appendix 4: Character Comparison Table and Appendix 1: Digital Setting Code.

1. Scan the following settings code to set the expected data transfer cell



**\*Initial Data**

****

**Prefix+data**



Data+Suffix1

****

**Prefix+data+Suffix 1**



Data+Suffix 1+Suffix 2

****

**Prefix+Data+Suffix 1+Suffix 2**

## Add Multiple Suffix

* **Prefix**

1. **To scan this code below**



Continunous Setting of Multiple Suffix

1. **Scan the numeric settings code in turn, with one successful tone for every four**
2. **Scan “ Finish Setting multiple Prefix&suffix” setting code, ending the settings**



**Finish Setting multiple Prefix&suffix**

* **Suffix(similar to a prefix, if you need LF, you can add it on the suffix)**

**（1）to scan”Multiple Suffix Setting Code”**



**Multiple Suffix Setting Code**

**（2）setting Prefix&suffi**

**（3）Scan “ Finish Setting multiple Prefix&suffix” setting code, ending the settings**



**Finish Setting multiple Prefix&suffix**

* **Prefix&suffix Effective**



**\*Only** **output decoded data**



**Output multiple suffix**



**Output multiple prefix**

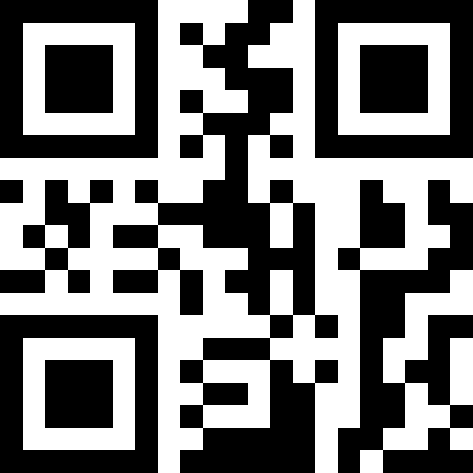


**Output multiple prefix&suffix**

## Hidden characters

## Hidden head data

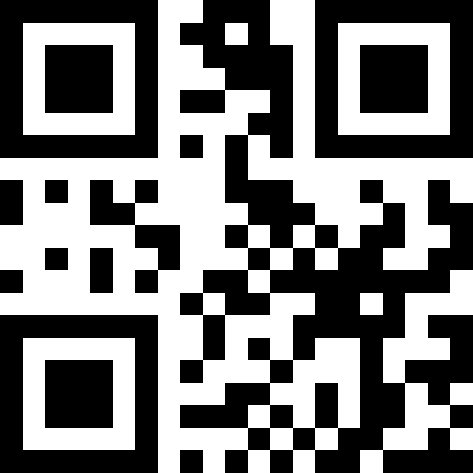
The decoded data can be used to hide the head data, which can be configured to hide any length. If the configured length exceeds the length of the barcode data, all the content of the current barcode can be hidden

**\*Prohibit Enable**

**Setting head data hiding bits**

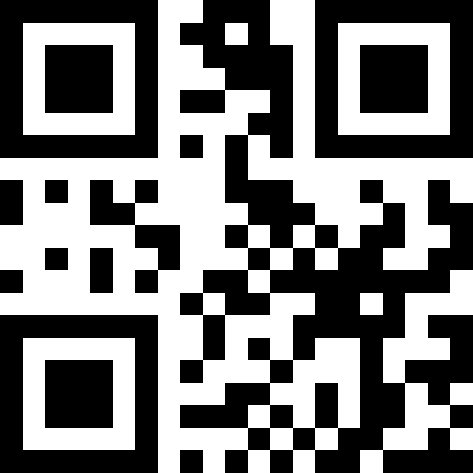
Setting head data hiding bits, range 1-255. Scan the current bar code and then scan the numeric setup code. For example, if you need to hide 16 characters, then scan the sequence number setting code: 0 1 6.



**Head data hidden bits**

## Middle data hiding

The decoded output data is hidden in the middle part, and can be configured at any starting position and length. If the configuration start position exceeds the bar code data length, then the current bar code is not hidden. The length of the configuration exceeds the length of the remaining bar code data, then all bar code data after the start position is hidden



**\*Prohibit Enable**

**Set the beginning position of hidden middle data.**

Set the beginning position of hidden middle data, range 1-255。scan the current bar code and then scan the digital setup code，For example, to hide data after the third character (the fourth character begins to hide), scan sequentially the number setup code: 0 0 3



**Middle data hiding starting bit**

**Setting hidden the middle data length**

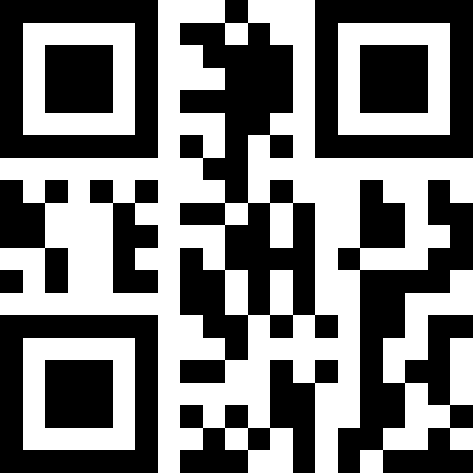
Configure the length of hidden middle part data, ranging 1 -255. Scan the current bar code and then scan the numeric setup code. For example, if you need to hide 16 characters, then scan the sequence number setting code: 0 1 6.



**Middle data hiding length**

## hiding tail data

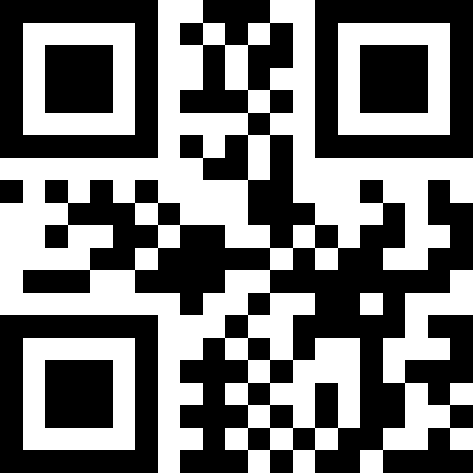
The data output from decoding is tail data hiding, which can be configured to hide any length of data. If the length of data is longer than the bar code, the current bar code content can be hidden.

\***Prohibit Enable**

**Setting tail data hiding bits**

Set tail data hidden bits, range 1-255. Scan the current bar code and then scan the numeric setup code. For example, if you need to hide 16 characters, then scan the sequence number setting code: 0 1 6.



**Tail data hidden bits**

## STX and EXT setting

Prohibit STX Prefix

ETX Suffix1 STX(Prefix)+ETX(Suffix1)

# 七、Bar code type enable / disable configuration

## One-dimensional code global enable switch

**Enable** **Prohibit**

## Two-dimensional code global enable switch

**Enable** **Prohibit**

## 3.One dimensional code forward and backward reading

** **

**Enable** **Prohibit**

## 4.One dimensional code and multi-code identification



**Enable** **Prohibit**

## 5.UPC-A



**\*Enable**

****

**Prohibit**



**Do not transmit UPC-A check bits**



**\*Transmission UPC-A check bit**

## 6.UPC-A additional code

### UPC-A 2-bit additional code



**Enable**



**\*Prohibit**

### UPC-A 5-bit additional code



**Enable**



\***Prohibit**

### UPC-A Additional code must be identified



**Enable**



\***Prohibit**

## 7.UPC-E

****

**\*Enable**

****

**Prohibit**



**Do not transmit UPC-e check bits**

****

**\*Transmission UPC-e check bit**

## 8.UPC-E Additional code

### UPC-E Two-bit additional code



**Enable**



\***Prohibit**

### UPC-E 5-bit additional code



**Enable**



\***Prohibit**

### UPC-E 必Additional code must be identified.



**Enable**



\***Prohibit**

## 9.UPC-E to UPC-A



**Enable**



**\* Prohibit**

## 10.UPC-A to EAN-13



**Enable**



**\*Prohibit**

## 11.EAN-8

****

**\*Enable**

****

**\*Prohibit**

## 12.EAN-8 Additional code

### EAN-8 2 bit additional code



**Enable**



**\* Prohibit**

### EAN-8 5 bit additional code



**Enable**

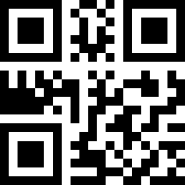


**\* Prohibit**

### EAN-8 Additional codes must be identified



**Enable**



**\* Prohibit**

## 12.EAN-13

****

**\*Enable**

****

**Prohibit**

## 13.EAN-13 additional code

### EAN-13 2 bit additional code



**Enable**



**\*Prohibit**

### EAN-13 5bit additional code



Enable



**\*Prohibit**

### EAN-13 Additional codes must be identified



Enable



\***Prohibit**

## 14.CODE 128



**\*Enable**



**Prohibit**

## 15.GS1-128



**\* Enable**



**Prohbit**

## 16.ISBT-128



**\* Enable**



**Prohibit**

## 17.Interleaved 2 of

### （1）I 2 of 5 enable

****

**\*Enable**

****

**Prohibit**

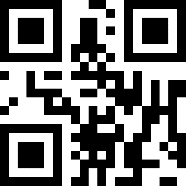
### （2）Interleaved 2 of 5Recognition length

The user can set up decoding Interleaved 2 of 5 in a specific length range，

Example: setup can only be decoded by Interleaved 2 of 5 in the 4-20 bit length range. First scan the following code，Then scan the 0 / 4 / 2 / 0 bar code of the digital setting code in turn，Change the selection or cancel an incorrect input setting and scan the cancel bar code in the appendix.

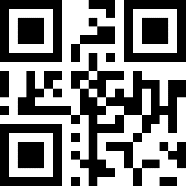
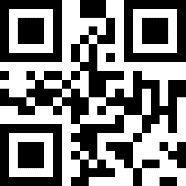


Interleaved 2 of 5 with specific length range



Interleaved 2 of 5 of arbitrary length

### （3）Transfer Interleaved 2 of 5 check bit

Enable \*Prohibit

## 18.Matrix 2 of 5

### （1）Matrix 2 of 5 Enable/ Prohibit

****

**Enable**

****

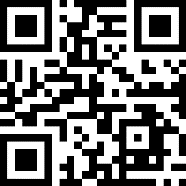
**\*Prohibit**

### （2）Matrix 2 of 5recognition length

The user can set up decoding the Matrix 2 of 5 in a specific length range. Example: the Matrix 2 of 5 in the 4-20 bit length range can only be decoded to scan the following code first, and then scan the 0,4,2,0 bar code of the digital setting code in turn. Change the selection or cancel an incorrect input setting and scan the cancel bar code in the appendix

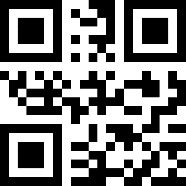
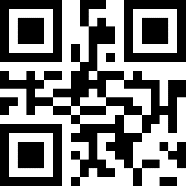


**Matrix 2 of 5 in a specific length range**



**Matrix 2 of 5 in arbitrary length range**

### （3）Matrix 2 of 5 parity check transmission

Enable \*Prohibit

## 19.Industrial 2 of 5

### （1）Industrial 2 of 5 Enable/Prohibit

****

**Enable**

****

**\*Prohibit**

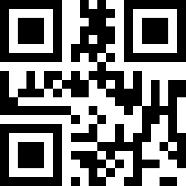
### （2）Industrial 2 of 5 Recognition length

The user can set up decoding Interleaved 2 of 5 in a specific length range，

Example: setup can only be decoded by Interleaved 2 of 5 in the 4-20 bit length range. First scan the following code，Then scan the 0 / 4 / 2 / 0 bar code of the digital setting code in turn，Change the selection or cancel an incorrect input setting and scan the cancel bar code in the appendix.



Interleaved 2 of 5 with specific length range



Interleaved 2 of 5 of arbitrary length

## Standard 2 of 5

### （1）Standard 2 of 5 Enable/Disable

****

**Enable**

****

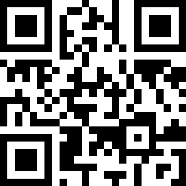
**\*Disable**

### （2）Standard 2 of 5 Recognition length

The user can set up decoding the Standard 2 of 5 in a specific length range. Example: the Standard 2 of 5 in the 4-20 bit length range can only be decoded to scan the following code first, and then scan the 0 / 4/2 / 0 bar code of the digital setting code in turn. Change the selection or cancel an incorrect input setting, scan the cancel bar code in the appendix。

****

**Standard 2 of 5** with specific length range



Standard 2 of 5 with arbitrary length

### （3）Standard 2 of 5 check bit transmission

### 

Enable \*Disable

## Code 39

### code39 Enable/Disable

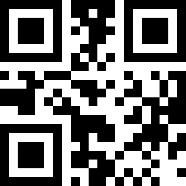
****

**\*Enable**

****

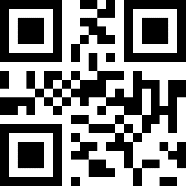
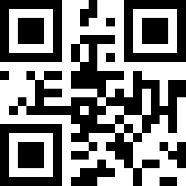
**Disable**

### Code39 length

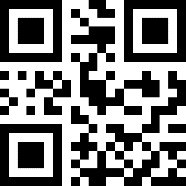
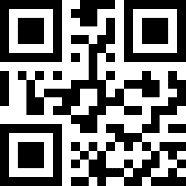
****

1. Solvable arbitrary length code39

### Code39 check bit

 Transmission check bit \*Non-transmission check bit

### Code 39 transfer initiator and Terminator

\*Disable Enable

## Code 39 Full ASCII

****

**Enable**

****

**\*Disable**

## Code 32

### code32 Enable/Disable



Enable

****

**\* Disable**

### code32 Prefix A



Enable

****

**\* Disable**

## Code 93

****

**Enable**

****

**\* Disable**

## Code 11

### （1） code11 Enable/Disable

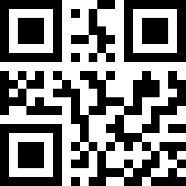
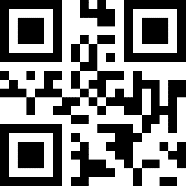
****

**Enable**

****

**\* Disable**

### （2） Check Bit Transmission

Enable  **\* Disable**

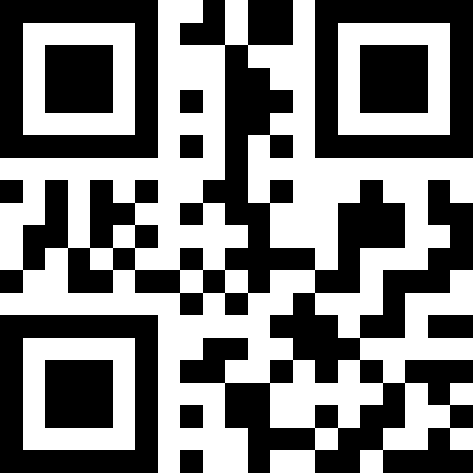
## Codabar

****

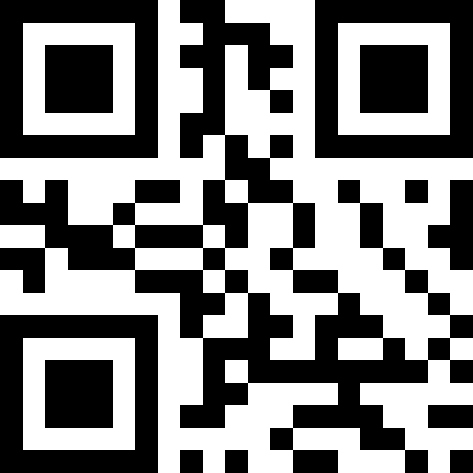
**Enable**

****

**\* Disable**

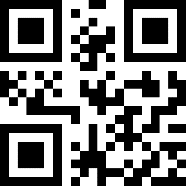


Remove start and stop characters

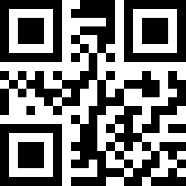


**\* Allow start and stop characters**

## PLESSEY



Enable



\*Disable

## MSI

### MSI Enable/Disable

****

**Enable**

****

**\* Disable**

### Length Setting



Readable to any length

## GS1-Databar



**Enable**



**\* Disable**

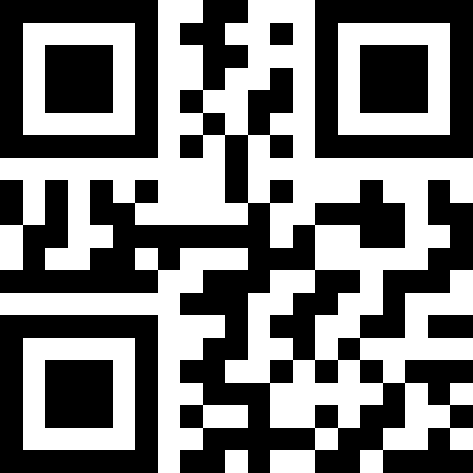
## ITF14



Enable



**\* Disable**

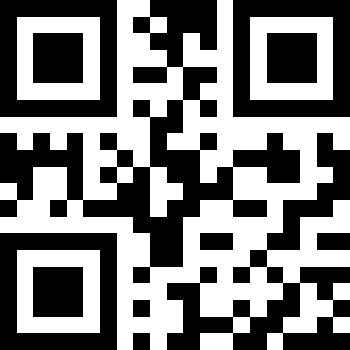


Transmission Check Bit

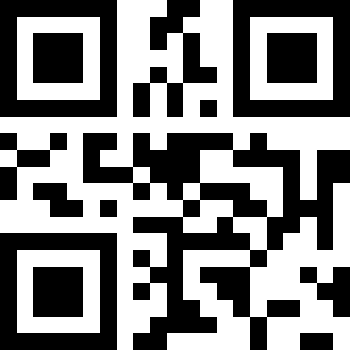


**\* No-transmission Check Bit**

## GS1 composite code



Enable



**\* Disable**

## QR Code

### QR code Enable/Disable

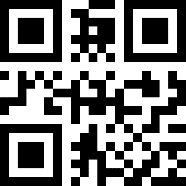
****

**\* Enable**

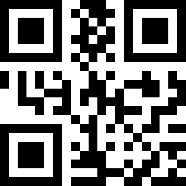
****

**Disable**

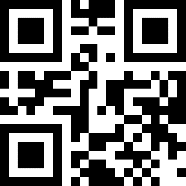
### QR code Multi-code reading



Read only a single code



Read only double code

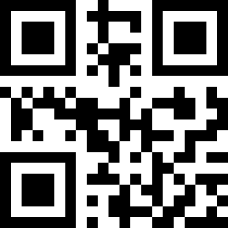


Recognizable single and double code

### QR code Normal and Reverse Reading



\*Only-read normal

****

**Normal and Reverse Reading**

## Data Matrix

### Data Matrix Enable/Disable

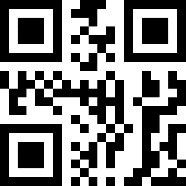
****

**\* Enable**

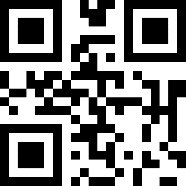
****

**Disable**

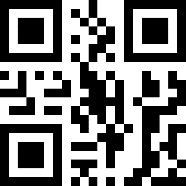
### Data Matrix multi-code reading



Read only a single code



Read only double code



Recognizable single and double code

### Data Matrix Normal and Reversing Reading



Only-read normal



Only-read reverse



**Normal and Reverse Reading**

## PDF 417

### PDF417 Enable/Disable

****

**\* Enable**

****

**Disable**

### PDF417 Multi-code reading



Read only a single code

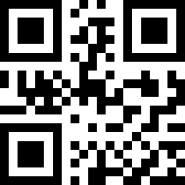
****

Read only double code



Recognizable single and double code

### PDF417 Normal and Reversing Reading



Only-read normal

****

Only-read reverse



**Normal and Reverse Reading**

## Aztec code

****

**Enable**

****

**\*Disable**

## Maxi code

****

**Enable**

****

**\*Disable**

## Han xin code

****

**Enable**

****

**\*Disable**

## Brazilian bank code



**Enable**



**\*Disable**

# Appendix1：Digital setting code

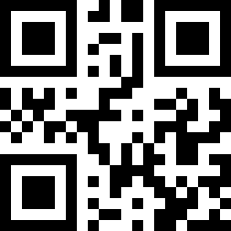
The parameter requires the exact value. Scan the appropriate digital setting code.



**0**



**1**



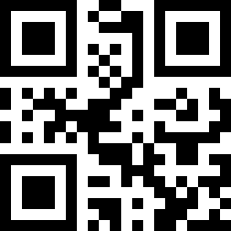
**2**



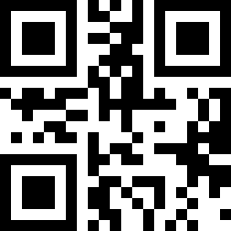
**3**



**4**



**5**



**6**



**7**



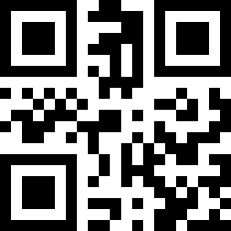
**8**



**9**

Appendix 2：Cancel barcode

To change the selection or cancel an incorrect input, scan the barcode below.



**Cancel**

# Appendix 3：Code ID

|  |  |
| --- | --- |
| **Code character** | **Type of the barcode** |
| A | UPC-A, UPC-E, EAN-8, EAN-13 |
| B | Code 39, Code 32 |
| C | Codabar |
| D | Code 128, ISBT 128 |
| E | Code 93 |
| F | Interleaved 2 of 5/ITF, ITF14 |
| G | Industrial 2 of 5, Standard 2 of 5 |
| H | CODE11 |
| J | MSI, MSI/Plessey |
| K | UCC/EAN-128/GS1-128 |
| L | Bookland EAN/ISBN，ISSN |
| R | GS1 DataBar-14, GS1 DataBar Limited, GS1 DataBar Expanded, RSS |
| V | Matrix 25 |
| r | PDF417 |
| u | DataMatrix(DM) |
| q | QR |
| a | Aztec Code |
| x | Maxi Code |
| c | HanXin |

# 

# Appendix 4：Character comparison table

|  |  |  |  |
| --- | --- | --- | --- |
| ScanValue | **hexadecimal value** | **Keyboard function key operation** | **Keyboard ctrl key combination operation** |
| 1000 | 00h | Null | CTRL 2 |
| 1001 | 01h | Keypad Enter | CTRL A |
| 1002 | 02h | Caps lock | CTRL B |
| 1003 | 03h | Right Arrow | CTRL C |
| 1004 | 04h | Up Arrow | CTRL D |
| 1005 | 05h | Null | CTRL E |
| 1006 | 06h | Null | CTRL F |
| 1007 | 07h | Enter | CTRL G |
| 1008 | 08h | Left Arrow | CTRL H |
| 1009 | 09h | Horizontal Tab | CTRL I |
| 1010 | 0Ah | Down Arrow | CTRL J |
| 1011 | 0Bh | Vertical Tab | CTRL K |
| 1012 | 0Ch | Backspace | CTRL L |
| 1013 | 0Dh | Enter | CTRL M |
| 1014 | 0Eh | Insert | CTRL N |
| 1015 | 0Fh | Esc | CTRL O |
| 1016 | 10h | F11 | CTRL P |
| 1017 | 11h | Home | CTRL Q |
| 1018 | 12h | Print Screen | CTRL R |
| 1019 | 13h | Delete | CTRL S |
| 1020 | 14h | tab+shift | CTRL T |
| 1021 | 15h | F12 | CTRL U |
| 1022 | 16h | F1 | CTRL V |
| 1023 | 17h | F2 | CTRL W |
| 1024 | 18h | F3 | CTRL X |
| 1025 | 19h | F4 | CTRL Y |
| 1026 | 1Ah | F5 | CTRL Z |
| 1027 | 1Bh | F6 | CTRL [ |
| 1028 | 1Ch | F7 | CTRL \ |
| 1029 | 1Dh | F8 | CTRL ] |
| 1030 | 1Eh | F9 | CTRL 6 |
| 1031 | 1Fh | F10 | CTRL - |
| 1032 | 20h | Space | Space |
| 1033 | 21h | /A | ! |
| 1034 | 22h | /B | ‘ |
| 1035 | 23h | /C | # |
| 1036 | 24h | /D | $ |
| 1037 | 25h | /E | % |
| 1038 | 26h | /F | & |
| 1039 | 27h | /G | ‘ |
| 1040 | 28h | /H | ( |
| 1041 | 29h | /I | ) |
| 1042 | 2Ah | /J | \* |
| 1043 | 2Bh | /K | + |
| 1044 | 2Ch | /L | , |
| 1045 | 2Dh | - | - |
| 1046 | 2Eh | . | . |
| 1047 | 2Fh | / | / |
| 1048 | 30h | 0 | 0 |
| 1049 | 31h | 1 | 1 |
| 1050 | 32h | 2 | 2 |
| 1051 | 33h | 3 | 3 |
| 1052 | 34h | 4 | 4 |
| 1053 | 35h | 5 | 5 |
| 1054 | 36h | 6 | 6 |
| 1055 | 37h | 7 | 7 |
| 1056 | 38h | 8 | 8 |
| 1057 | 39h | 9 | 9 |
| 1058 | 3Ah | /Z | : |
| 1059 | 3Bh | %F | ; |
| 1060 | 3Ch | %G | < |
| 1061 | 3Dh | %H | = |
| 1062 | 3Eh | %I | > |
| 1063 | 3Fh | %J | ? |
| 1064 | 40h | %V | @ |
| 1065 | 41h | A | A |
| 1066 | 42h | B | B |
| 1067 | 43h | C | C |
| 1068 | 44h | D | D |
| 1069 | 45h | E | E |
| 1070 | 46h | F | F |
| 1071 | 47h | G | G |
| 1072 | 48h | H | H |
| 1073 | 49h | I | I |
| 1074 | 4Ah | J | J |
| 1075 | 4Bh | K | K |
| 1076 | 4Ch | L | L |
| 1077 | 4Dh | M | M |
| 1078 | 4Eh | N | N |
| 1079 | 4Fh | O | O |
| 1080 | 50h | P | P |
| 1081 | 51h | Q | Q |
| 1082 | 52h | R | R |
| 1083 | 53h | S | S |
| 1084 | 54h | T | T |
| 1085 | 55h | U | U |
| 1086 | 56h | V | V |
| 1087 | 57h | W | W |
| 1088 | 58h | X | X |
| 1089 | 59h | Y | Y |
| 1090 | 5Ah | Z | Z |
| 1091 | 5Bh | %K | [ |
| 1092 | 5Ch | %L | \ |
| 1093 | 5Dh | %M | ] |
| 1094 | 5Eh | %N | ^ |
| 1095 | 5Fh | %O | \_ |
| 1096 | 60h | %W | ‘ |
| 1097 | 61h | +A | a |
| 1098 | 62h | +B | b |
| 1099 | 63h | +C | c |
| 1100 | 64h | +D | d |
| 1101 | 65h | +E | e |
| 1102 | 66h | +F | f |
| 1103 | 67h | +G | g |
| 1104 | 68h | +H | h |
| 1105 | 69h | +I | i |
| 1106 | 6Ah | +J | j |
| 1107 | 6Bh | +K | k |
| 1108 | 6Ch | +L | l |
| 1109 | 6Dh | +M | m |
| 1110 | 6Eh | +N | n |
| 1111 | 6Fh | +O | o |
| 1112 | 70h | +P | p |
| 1113 | 71h | +Q | q |
| 1114 | 72h | +R | r |
| 1115 | 73h | +S | s |
| 1116 | 74h | +T | t |
| 1117 | 75h | +U | u |
| 1118 | 76h | +V | v |
| 1119 | 77h | +W | w |
| 1120 | 78h | +X | x |
| 1121 | 79h | +Y | y |
| 1122 | 7Ah | +Z | z |
| 1123 | 7Bh | %P | { |
| 1124 | 7Ch | %Q | | |
| 1125 | 7Dh | %R | } |
| 1126 | 7Eh | %S | ~ |
| 1127 | 7Fh |  | Undefined |