



User Manual

DT3212



Barcodescanner – DT3212

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Datum : 23-8-2023

Versie : 1.0

Introduction

Thank you for trusting a product from DTRONIC. Please read the contents of the user manual carefully in order to use the products safely and effectively.

You are advised to keep this manual correctly for your installation and as a reference. Please do not disassemble the product or tear off the seal, otherwise we will not provide warranty or replacement service.

The illustrations in this user manual are for reference only. If there are images that do not match the actual product, please take the actual product as standard.

Updated information is subject to change without notice. All information in this manual is copyrighted and our company reserves all rights. It is prohibited to distribute, copy, compile or sell all or part of this manual without our written permission.

DTRONIC is a BOIP registered trademark and legally protected in cooperation with GS1. Diwolar is the only company with the rights to market this trademark. If you have purchased a product that was not purchased through Diwolar, the warranty is void. When contacting customer service always ask for the order number. This user manual applies to DTRONIC barcode scanners that identify barcodes using a laser scan pattern.

DTRONIC is not liable for damages and defects suffered when the barcode scanner fails, does not work properly or is misused.

Do you have any questions about your product? We will be happy to assist you.

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Inhoud

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1. Product

1.1 Function

- Works with Plug&Play and without installation software.
- Works with most WMS systems.
- Some WMS or POS systems must be set up to use a scanner.
- Device the scanner is connected to will see it as keyboard.
- Basically the scanner scans the 95% of bar codes, remaining 5% can be set as desired with this manual.
- There are patented parts in the scanner, DTRONIC has the rights to sell these items on the Dutch, Belgian and German market

1.2 Unbox

After opening the box containing the product, perform the following steps:

- Remove the scanner accessories from the packaging.
- Remove the scanner from the packaging.
- At the packing list, check that everything is complete and in good condition. If there are damaged or missing parts, save the original packaging and contact DTRONIC for customer service.

Packing list:

1. Handheld scanner
2. USB Connection Cable (for wireless scanners, this is the charging cable).
3. Paperclip
4. Abridged user manual

1.3 Start

Startup: connect the computer to the scanner. The computer will recognize it as a keyboard and the scanner can be used.

Power off: remove the cable connected to the scanner; remove the USB connected to the computer.

Restart: if the scanner crashes or is unresponsive, turn it off and restart it. Optionally, use the factory setting from this manual

1.4 Window

The scanning window must be kept clean, the supplier does not bear the warranty responsibility due to improper maintenance. Prevent the window from wearing out or being scratched by a hard object. Use a soft cloth to remove stain on the scanning window. Clean the scan window with a soft cloth, such as a lens cleaning cloth

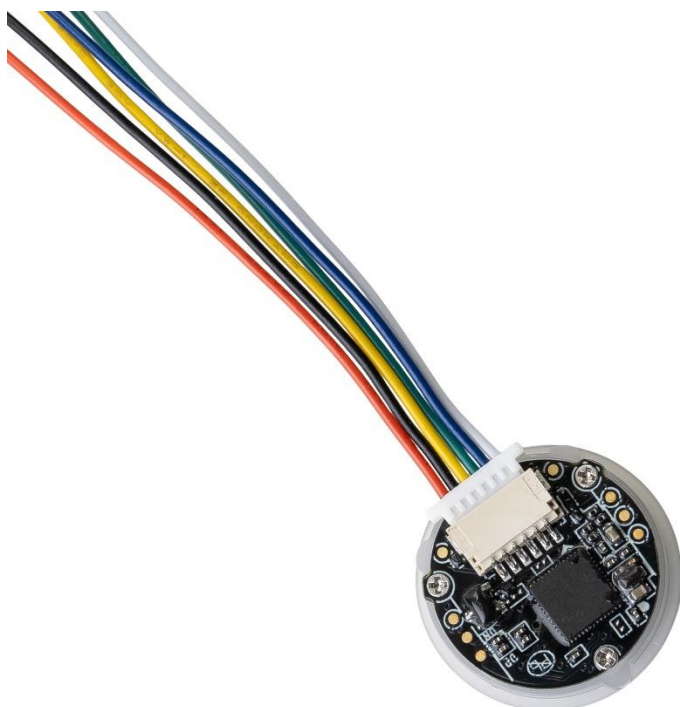
Spraying liquid on the scan window is prohibited. Prohibit all cleaning solvents except cleaning water.

1.5 Reading

If the bar code is small, it should be closer to the scan window; if the bar code is large, it should be further away from the scan window for easier reading.

If the bar code is highly reflective (for example, the coated surface), you may need to tilt the bar code at an angle to scan the bar code. The best distance to read a bar code is 10-15 cm

1.6 Picture



1.7 Led indicator

	INDICATOR STATUS	EXPLAIN
●	Red light on	Charging
○	Red light off	No charging
●	Green light on	No decoding
○	Green light off	Decode succesfully
●	One blue light on	Pairing successful or connect to USB



2. System Setup

2.1 System Setup

Option and function setting mainly by reading a series of special bar codes. In this chapter, we give you a detailed introduction to the options and functions available for user setup and the corresponding setup code.

This method of setting up the scan is direct, easy to understand and user-friendly.

2.1.1 Setup code

	
Startup settings (default)	Exit Settings



2.1.2 Restore factory default settings


Restore factory settings



2.1.3 Read version number


Read version number



2.1.4 Product User Settings

	
Save user default settings	Restore user default settings



2.1.5 Set the beep switch

	
Open (default)	Close

2.1.6 Power on beep switch

	
Open (default)	Close

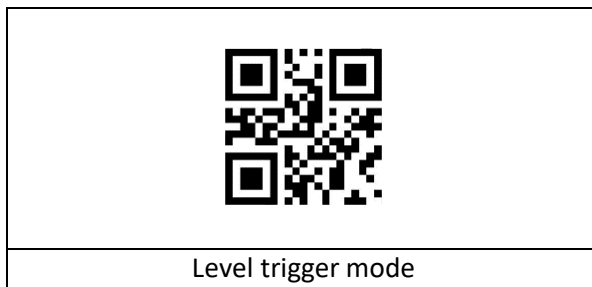
2.1.7 Read success beep switch

	
Open (default)	Close

2.2 Reading mode settings

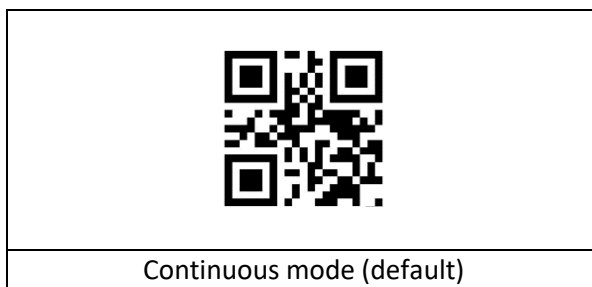
2.2.1 Level trigger mode

Enter the reading state when the trigger key pin is at low level. Press and hold the trigger key to start reading code. After reading the code successfully or releasing the trigger key, the code reading ends and the next decoding needs to re-enter the low level state.



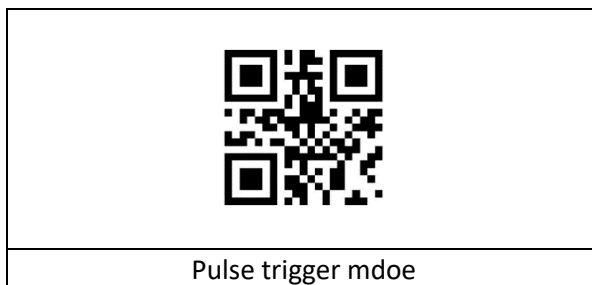
2.2.2 Continuous mode (default)

When the reading setting code is switched to this mode, it enters the continuous reading state. In this mode, the "repeat read switch" can be used to prevent the same barcode from being read more than once.






2.2.3 Pulse trigger mode

When the reading setting code is switched to this mode, it enters the pulse-triggered reading state.



2.2.4 One read timeout




One time reading timeout time, the unit is 0.1 seconds. The default value is 30 (3 seconds), when set to 0, it means that the device is always in the reading state, and the time range can be set: 0~999.

	
Short time (3s)	In time (7s)
	
Long time (10s)	

Valid only in "Level Trigger Mode" and "Pulse Trigger Mode".

2.3 Communication settings








2.3.1 Communication settings

	
USB HID (default)	USB CDC serial port
	
RS-232 serial port	

2.3.2 USB keyboard



Portuguese (Brazil) cannot output "?" and "/" .


	
Nederlands	Italian
	
Spanish (Brazil)	Portuguese
	
Portuguese (Brazil)	French

	
German (Austria)	Turkish Q
	
Turkish F	English (UK)
	
Japanese	German (Switzerland)
	
French (Belgium)	

2.3.3 USB keyboard sending speed




If there is missed data at the receiver side, the occurrence speed should be turned down, which is easy to occur at the receiver side with poor performance.

	
5 ms (default)	10 ms

	
20 ms	

2.3.4 Control Characters



Specific reference to the control character table, only the data content of the barcode is converted.





	
Off (default)	Control + ASCII mode
	
Alt + Keypad mode	

2.3.5 Serial communication settings




The serial data bit is 8 and the serial stop bit is 1.

2.3.6 Serial port baud rate setting

	
Baud rate 4800	Baud rate 9600 (default)

	
Baud rate 19200	Baud rate 38400
	
Baud rate 57600	Baud rate 115200

2.3.7 Serial port parity bit setting

	
No checksum (default)	Odd calibration
	
Even Check	

2.4 Data format setting

Length of custom prefix and suffix: (0~10) characters, if set to "on", "Code ID prefix", "custom prefix", "end suffix", etc. will be added before and after the decoding information. "Custom suffix", "End suffix", etc.



The maximum number of data cache is 5, and the maximum length of individual data is 7900 characters; the data output is sequential output, and you need to wait for the first barcode output to finish before the second barcode output, and so on.

2.4.1 Custom prefix on/off settings

Custom prefixes add a user-defined string before the decoded information. For example, if you allow to add a custom prefix and set the prefix to the string "AB", after reading the barcode with

the data "123", the scanner adds the string "AB" before the string "123", and the host side receives "AB123". After the barcode reading data is "123", the scanner will add the string "AB" before the string "123", and the host side will receive "AB123".

If set to "Off", the decoded information will only have the barcode data information, no prefix, and the default value is to turn off the custom prefix output.

	
Enable	Disable (default)

2.4.2 Customized prefixes

The custom prefix adds a user-defined string before the decoded information, and the output format after customization is "Custom Content + Barcode Content".

Set the custom prefix to 'a' (the hex value of a is 0x61)



1. Read "Startup Settings"
2. Read the "Custom Prefix" setting code
3. Check the ASCII code of the character "a": the ASCII code of "a" is "0x61" (see ASCII code table)
4. Read data code: "6" "1" (see data code table)
5. Read "Save" (see data code table)
6. Read "Exit Settings"


Customized prefixes

2.4.3 Custom suffix on/off settings

The custom suffix adds a user-defined string after the decoded information. For example, it is allowed to add a custom suffix and set the suffix to the string "AB", after reading the barcode with the data of "123", the scanner adds the string "AB" after the string "123", and the host side receives "123AB". After the barcode reading data is "123", the scanner will add the string "AB" after the string "123", and the host side will receive "123AB".

If set to "Off", only the barcode data information will be in the decoded information, no suffix, and the default value is to turn off the custom suffix output.

	
Enable	Disable (default)

2.4.4 Custom suffixes

Custom suffix adds a user-defined string after the decoded information, and the output format after customization is "barcode content + custom content".

Set the custom suffix to 'a' (the hex value of a is 0x61)

1. Read "Startup Settings"
2. Read the "Custom Suffix" setting code
3. Check the ASCII code of the character "a": the ASCII code of "a" is "0x61" (see ASCII code table)
4. Read data code: "6" "1" (see data code table)
5. Read "Save" (see data code table)
6. Read "Exit Settings"


Custom suffixes

2.4.5 Custom ID output method

The user can use Code ID to identify the barcode type and the Code ID corresponding to each barcode type is customizable. The Code ID for all barcodes is 1 character.

Close Code ID (default): Code ID is not spliced to the read string.





Code ID prefix: The Code ID is spliced before the recognition string.

Code ID suffix: The Code ID is spliced after the recognition string.

Restore the Code ID of all barcodes, including Codabar, to the default value of.

1. Read "Startup Settings"
2. Read "Clear all custom Code IDs".
3. Read "Exit Settings"

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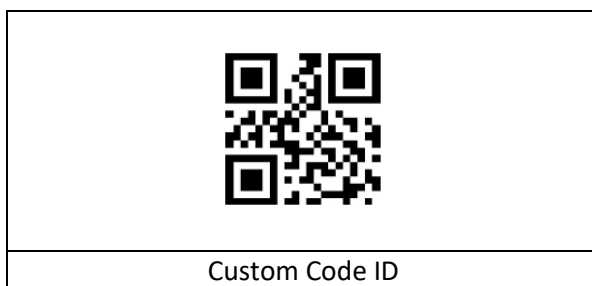
	
Disable CODE ID (default)	Code ID prefix
	
Code ID suffix	Clear all custom Code IDs

2.4.6 Customize Code ID

Please refer to the following example for how to modify the Code ID.

Modify the Code ID of Codabar (Code ID:0x61) to "Y" (hexadecimal value 0x59).






1. Read "Startup Settings"
2. Read "Custom Code ID"
3. Check the Code ID of the barcode: the Code ID of "Codabar" is "0x61" (see the list of code system support)
4. Check the ASCII code of the character "Y": the ASCII code of "Y" is "0x59" (see ASCII code table)
5. Read data code: "6" "1" "5" "9" (see data table)
6. Read "Save" (see data code table)
7. Read "Exit Settings"



2.4.7 Terminator settings

The terminator suffix is used to mark the end of a complete piece of data information. The terminator suffix stands alone and does not participate in any other form of data formatting. The terminator suffix must be the last piece of data sent, and no additional data will be added thereafter.

The ending character can be set to carriage return, line feed, carriage return line feed, tab or ETX, and the default ending character is set to carriage return.



	
No terminator	Enter (default)
	
Line Feed (Down)	Carriage return + Line feed (Enter+Down)
	
Tab	

2.5 Symbologies







Each type of barcode has its own unique properties, and the setup codes in this chapter allow you to adjust the scanner to accommodate these property changes.

The fewer barcode types that are turned on, the faster the scanner will Scan. You can turn off the barcode types that will not be used to improve the performance of the scanner.




2.5.1 All barcodes

	
Close all barcodes	Turn on all barcodes

2.5.2 EAN8 Settings

	
EAN8 on (default)	EAN8 off
	
Enable EAN8 transmission Check Character (default)	Disable EAN8 transmit Check Character
	
Convert EAN8 to EAN13	Do not Convert EAN8 to EAN13 (default)



2.5.3 Add-on code setting

	
Adaptive UPC/EAN add-on codes	Only Decode UPC/EAN Add-on codes
	
Ignore UPC/EAN add-on codes (default)	





2.5.4 EAN 13 settings

	
EAN13 on (default)	EAN13 off
	
Enable EAN13 transmission Check Character (default)	Disable EAN13 transmission checks
	
Transmit EAN13 System Character (default)	Do not Transmit EAN13 System Character





2.5.5 ISBN setting



	
Convert EAN13 to ISBN	Do not Convert EAN13 to ISBN (default)

2.5.6 UPC-A settings









	
Transmit UPC-A check character (default)	Do not Transmit UPC-A check character
	
Convert UPC-A to EAN13 (default)	Do not Convert UPC-A to EAN13



2.5.7 UPC-E settings

	
UPC-E on (default)	UPC-E Off
	
Transmit UPC-E Check Character (default)	Do no Transmit UPC-E transmission Check Character

	
Convert UPC-E to UPC-A	Do not Convert UPC-E to UPC-A (default)


2.5.8 Code 39 Settings



	
Code 39 on (default)	Code 39 Off
	
Enable Code 39 Check Character	Disable Code 39 Check Character (default)
	
Transmit Code 39 Check Character	Do not Transmit Code 39 Check Character (default)
	
Transmit Code 39 start and stop characters	Do not Transmit Code 39 start and stop characters (default)

	
Full ASCII On	Full ASCII Off (default)

2.5.9 Code 39 Length Setting

OPMERKING:

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.



	
Minimum length setting	Maximum length setting

Example



Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.

1. Scan "Startup Settings"
2. Scan "Minimum length setting"
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings"

2.5.10 Code 32 settings


	
Convert Code39 to Code32	Do not Convert Code39 to Code32 (default)



2.5.11 Code 128 settings

	
Code 128 on (default)	Code 128 Off

2.5.12 Code 128 length setting

OPMERKING:

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.



	
Minimum length setting	Maximum length setting





Example

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.

1. Scan "Startup Settings"
2. Scan "Minimum length setting"
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings"


2.5.13 Code 93 settings



	
Code 93 On (default)	Code 93 Off

	
Enable Code 93 Check Character (default)	Disable Code 93 Check Character
	
Transmit Code 93 check digit	Do not Transmit Code 93 Check Digit (default)

2.5.14 Code 93 Length Setting

OPMERKING:

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.





	
Minimum length setting	Maximum length setting

Example


Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.



1. Scan "Startup Settings"
2. Scan "Minimum length setting"
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings"

2.5.15 Codabar Settings

	
Codabar on (default)	Codabar Off
	
Transmit Codabar start and stop characters	Do not Transmit Codabar start and stop characters (default)

2.5.16 Codabar Length Setting

	<p>OPMERKING: If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.</p>
---	--

	
Minimum length setting	Maximum length setting

Example

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.


1. Scan "Startup Settings" barcode
2. Scan "Minimum length setting" barcode
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"
6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings".



2.5.17 Interleave 2 of 5 (ITF5) setting

	
ITF5 on (default)	ITF5 off
	
Enable ITF25 check character (default)	Disable ITF25 Check Character
	
Transmit ITF25 Check Character	Do not Transmit ITF25 Check Charcter (default)

2.5.18 ITF25 length setting

OPMERKING:

 If the maximum length is less than the minimum length, only the barcode of these two lengths will be Scan. If the maximum length is equal to the minimum length, only this length is supported.

	
Minimum length setting	Maximum length setting

Example

Set the scanner to Scan only barcodes with a minimum of 8 bytes and a maximum of 12 bytes.

1. Scan "Startup Settings" barcode
2. Scan "Minimum length setting" barcode
3. Scan Digital Code "8" (see Appendix 1 for data and edit barcode)
4. Scan "Save" (see Appendix 1 to save or cancel)
5. Scan "Maximum length setting"

6. Scan Digital Code "1" "2" (see Appendix 1)
7. Scan "Save" (see Appendix 1 to save or cancel)
8. Scan "Exit Settings".

3. Appendix

3.1 Appendix

3.1.1 Appendix A: Data Code

0 ~ 9



0



1



2



3



4



5



6



7



8



9

A ~F



A



B



C



D



E



F

3.1.2 Appendix B: Parameter setting example

◆ Example 1: Modify the prefix and customize it as DATA

1. Query the character table to obtain the hexadecimal value corresponding to the four characters of "DATA": "44", "41", "54", "41"
2. Read the "Enable Setting Code"; (If it is already enabled, you can skip this step)
3. Read the "modify prefix" setting code
4. Read the data code "4" "4" "4" "1" "5" "4" "4" "1" one by one
5. Read the "Save" setting code

◆ Example 2: Modify the suffix and customize it as DATA

1. Query the character table to obtain the hexadecimal value corresponding to the four characters of "DATA": "44", "41", "54", "41"
2. Read the "Enable Setting Code"; (If it is already enabled, you can skip this step)
3. Read the "modify suffix" setting code
4. Read the data code "4" "4" "4" "1" "5" "4" "4" "1" one by one
5. Read the "Save" setting code

◆ Example 3: Modify the CODE ID of EAN13 to "A"

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

2. Read the "Enable Setting Code"; (If it is already enabled, you can skip this step)
3. Read the setting code of "Modify EAN13 CODE ID"
4. Read the data code "4" and "1" one by one
5. Read the "Save" setting code

◆ Example 4:

[Only transmit Start segment] When the decoded information is "1234567890ABC", output the first 10 bytes "1234567890"

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

2. Read the "Enable Setting Code"; (If it is already enabled, you can skip this step)
3. Read the setting code of "Modify Start Segment Length"
4. Read the data code "0" "A" one by one
5. Read the "Save" setting code
6. Read the setting code of "transmit only the start segment"

◆ Example 5:

[Only transmit End segment] When the decoded information is "1234567890ABC", output the first 10 bytes "1234567890"

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

2. Read the "Enable Setting Code"; (If it is already enabled, you can skip this step)
3. Read the setting code of "Modify End Segment Length"
4. Read the data code "0" "A" one by one
5. Read the "Save" setting code
6. Read the setting code of "Transmit only End segment"

◆ Example 6:

[Transfer Center section only] When the decoded information is "1234567890ABC1234567890", output the middle 3 bytes "ABC"

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

2. Read the "Enable Setting Code"; (If it is already enabled, you can skip this step)
3. Read the setting code of "Modify End Segment Length"
4. Read the data code "0" "A" one by one
5. Read the "Save" setting code
6. Read the setting code of "Modify Start Segment Length"
7. Read the data code "0" "A" one by one
8. Read the "Save" setting code
9. Read the setting code of "Transfer Center Segment Only"

◆ Example 7: 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 the "Enable Setting Code"; (If it is already enabled, you can skip this step)

3. Read the "modify RF information" setting code
4. Read the data codes "4" "6" "4" "1" "4" "9" "4" "C" one by one
5. Read the "Save" setting code

◆ Example 8: Modify the GS replacement character to "D"

1. Query the character table to obtain the hexadecimal value corresponding to the "D" character: "44"
2. Read the "Enable Setting Code"; (If it is already enabled, you can skip this step)
3. Read the "GS character replacement enable" setting code (if it has been enabled, you can skip this step)
4. Read the setting code of "GS replacement character modification"
5. Sequentially read the data code "4" "4"
6. Read the "Save" setting code

3.1.3 Appendix C: Default Setting Table

Parameter name		Default setting	Remark
Setting code			
Setting code function		Turn on	
Communication settings			
Communication mode		USB-HID	
TTL-232	Serial port baud rate	9600bps	
	Serial port check digit	No check digit	
	Serial data bit	8位	
	Serial stop bit	1位	
	Hardware flow control	None	
USB-HID	USB-HID device selection	USB-KBW	
	PC to HID device access cycle	1ms	Scope : 1~64ms
	Interval before HID release	1ms	Scope : 1~63ms
	Interval after HID release	1ms	Scope : 1~63ms
	CapsLock state	Off	
	HID leading key output	Disable	
Scan code mode parameters			
Default reading mode:		Manual mode	

Manual mode	Trigger method	Level trigger	
	Single reading time	5000ms	Scope : 100ms~25500ms, Step length 100ms, 0 means unlimited
	Deep sleep	closure	Sleep time: 0-3276700ms Step length: 100ms
Command trigger mode	Trigger conditions	Command trigger	7E 00 08 01 00 02 01 AB CD
	Trigger command response	permission	
	Single reading time	5000ms	Range: 100ms~25500ms Step length 100ms 0x00: unlimited length
Continuous mode	Reading interval	1000ms	Range: 0~25500ms Step length 100ms
	Same code reading delay	No delay	Delay time range: 100ms~25500ms Step length 100ms 0x00: Infinite delay
	Single reading time	5000ms	Range: 100ms~25500ms Step length 100ms 0x00: unlimited length
	Continuous mode button pause switch	support	
Induction mode	Single reading time	5000ms	Range: 100~25500ms Step length 100ms 0x00: unlimited length
	Reading interval time	1000ms	Range: 0~25500ms Step length 100ms
	Same code reading delay	No delay	Delay time range: 100ms~25500ms Step length 100ms 0x00: Infinite delay
	Sensitivity	Normal sensitivity	Sensitivity parameter 1/2:00-FF The higher the parameter, the lower the sensitivity
	Image stabilization time	0ms	Range: 0~25500ms Step length 100ms
General settings			
Fill light/positioning	Positioning light	Lights up when taking pictures	
	Fill light	Lights up when taking pictures	
Buzzer	Buzzer settings	Passive buzzer	
	Passive buzzer	IF	
	Active buzzer	High level	Active high when working, active low when idle
	Mute	Closure	

Power-on prompt	Turn on	
Prompt for successful reading	Turn on	
Duration of the prompt tone for successful reading	60ms	Range 0-255ms
LED prompt for successful reading	Turn on	
Set code reading prompt	Turn on	
Output data format	GBK	
keyboard	America	
Virtual/standard keyboard	standard	
Control character output	closure	The virtual keyboard is closed by default, The default control character close mode after opening
Image mirror flip	prohibit	
Serial port simulation HID protocol	Disable	
Invoicing mode	Enable/local invoicing mode	
Data editing		
Prefix	No added	
Suffix	No added	
CODE ID	No added	
Terminator	CR (0x0D)	
Data segment interception	Transfer the entire data segment	
RF information	Do not send	
Output protocol	Pure data output	
GS character replacement	prohibit	
URL code reading	allow	
Symbology setting		
Reverse	prohibit	
Image mirror flip	prohibit	
Commodity code verification output	Enable	EAN13/EAN8/UPC-A/UPC-E0/UPC-E1
Improved literacy	prohibit	

EAN-13		
Read	allow	
Force output additional code	No requirement	
2-digit additional code	prohibit	
5-digit additional code	prohibit	
Check digit output	Output	
EAN-8		
Read	allow	
Force output additional code	No requirement	
2-digit additional code	prohibit	
5-digit additional code	prohibit	
Check digit output	Output	
UPC-A		
Read	allow	
Force output additional code	No requirement	
2-digit additional code	prohibit	
5-digit additional code	prohibit	
UPC-A转EAN13	prohibit	
Check digit output	Output	
UPC-E0		
Read	allow	
Force output additional code	No requirement	
2-digit additional code	prohibit	
5-digit additional code	prohibit	
Check digit output	Output	
UPC-E1		
Read	allow	
Force output additional code	No requirement	
2-digit additional code	prohibit	

5-digit additional code	prohibit	
Check digit output	Output	
Code128		
Read	allow	
Min length of information	0	
Max length of information	255	
Add prefix (11) function	closure	
Code 39		
Read	allow	
Min length of information	0	
Max length of information	255	
Start character	No Output	
Terminator	No Output	
Code32	Disable	
Code32 prefix Output	Output	Prerequisite: Code32 is enabled
FullAsc mode	Disable	
Processing check	No deal	
Check Bit Output	No Output	
Code 93		
Read	allow	
Min length of information	0	
Max length of information	255	
CodaBar		
Read	allow	
Min length of information	0	
Max length of information	255	
Start and end	No Output	
Interleaved 2 of 5		
Read	prohibit	

Min length of information	4	
Max length of information	32	
Check format	None	
Check Bit Output	No Output	
Industrial 25		
Read	prohibit	
Min length of information	4	
Max length of information	32	
Check format	None	
Check Bit Output	No Output	
Matrix 2 of 5		
Read	prohibit	
Min length of information	4	
Max length of information	32	
Check format	None	
Check Bit Output	No Output	
Code11		
Read	prohibit	
Min length of information	4	
Max length of information	32	
Check method	1bit	
Check Bit Output	No Output	
MSI Plessey		
Read	prohibit	
Min length of information	4	
Max length of information	32	
Check method	Single Mod10	
Check Bit Output	No Output	
RSS-14		

Read	prohibit	
AI with parentheses	With brackets	
Limited RSS		
Read	prohibit	
AI with parentheses	With brackets	
Extended RSS		
Read	prohibit	
Min length of information	4	
Max length of information	32	
AI with parentheses	With brackets	
Standard 2 of 5		
Read	prohibit	
Min length of information	4	
Max length of information	32	
check	closure	
Check Bit Output	No Output	
Plessey		
Read	prohibit	
Min length of information	4	
Max length of information	32	
check	closure	
Check Bit Output	No Output	
ChinaPost 25		
Read	prohibit	
Min length of information	4	
Max length of information	32	
check	closure	
Check Bit Output	No Output	
QR Code		

Read	allow	
Mode 1 reading	closure	
Add prefix (11)	closure	
PDF417		
Read	allow	
Data Matrix		
Read	allow	
Read multiple DM barcodes at the same time	prohibit	
Micro QR		
Read	allow	
Han Xin Code		
Read	prohibit	
Micro PDF417		
Read	prohibit	
Code 16K		
Read	prohibit	
Maxi Code		
Read	prohibit	
Aztec		
Read	prohibit	

3.1.4 Appendix D: Common serial port commands

Function	Serial command	Return command
Switch to manual mode (Both the positioning light and the fill light will light up when taking pictures)	7E 00 08 0100 00 D4 FF 60	02 00 00 01 00 33 31
Switch command trigger mode (Both the positioning light and the fill light will light up when taking pictures)	7E 00 08 0100 00 D5 EF 41	02 00 00 01 00 33 31
Switch command continuous mode	7E 00 08 0100 00 D6 DF 22	02 00 00 01 00 33 31

(Both the positioning light and the fill light will light up when taking pictures)		
Switch sensing mode (Both the positioning light and the fill light will light up when taking pictures)	7E 00 08 0100 00 D7 CF 03	02 00 00 01 00 33 31
Command trigger mode trigger command	7E 00 08 01 00 02 01 02 DA	02 00 00 01 00 33 31
Trigger command response allowed	7E 00 08 01 00 01 04 07 2C	02 00 00 01 00 33 31
Trigger command response prohibit	7E 00 08 01 00 01 84 96 A4	02 00 00 01 00 33 31
Set the reading interval to 5s	7E 00 08 01 00 05 32 9D 7D	02 00 00 01 00 33 31
Set a single reading time 10s	7E 00 08 01 00 05 64 A7 4E	02 00 00 01 00 33 31
Set the baud rate (115200bps)	7E 00 08 02 00 2A 1A 00 E4 7E	02 00 00 01 00 33 31
Save settings to internal Flash	7E 00 09 01 00 00 00 DE C8	02 00 00 01 00 33 31
Query the baud rate (115200bps)	7E 00 07 01 00 2A 02 D8 0F	02 00 00 02 1A 00 82 D8
reset	7E 00 09 01 00 00 FF C0 38	02 00 00 01 00 33 31
Set terminator (CRLF)	7E 00 08 01 00 60 21 4B F0	02 00 00 01 00 33 31
Setting code on	7E 00 08 01 00 03 00 21 CA	02 00 00 01 00 33 31
TTL-232 Serial mode	7E 00 08 01 00 0D A0 B7 2F	02 00 00 01 00 33 31
Continuous mode	7E 00 08 01 00 00 D6 DF 22	02 00 00 01 00 33 31
Reading interval -3000ms	7E 00 08 01 00 05 1E 78 93	02 00 00 01 00 33 31
The same code reading delay is on	7E 00 08 01 00 13 80 B3 31	02 00 00 01 00 33 31
Same reading delay time -5000ms	7E 00 08 01 00 13 B2 A5 20	02 00 00 01 00 33 31
Boot Prompt-Off	7E 00 08 01 00 0E 16 25 61	02 00 00 01 00 33 31
Allow reading all types	7E 00 08 01 00 2C 02 17 50	02 00 00 01 00 33 31
Save current settings as user default settings	7E 00 08 01 00 D9 56 E1 15	02 00 00 01 00 33 31
Satrt to decode	7E 00 08 01 00 02 01 02 DA	02 00 00 01 00 33 31
Stop to decode	7E 00 08 01 00 02 00 12 FB	02 00 00 01 00 33 31
LED on	7E 00 08 01 00 00 D2 9F A6	02 00 00 01 00 33 31
LED off	7E 00 08 01 00 00 DA 1E AE	02 00 00 01 00 33 31

3.1.5 Appendix E: Code ID list

Barcode type	Corresponding characters	Flag 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
Mico QR	X	0xA5
Han Xin 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

3.1.6

3.1.7 Appendix F: ASCII code 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)

3.1.8 Appendix G: List of Batch Setting Code Parameters

Setting code function	Setting code parameter content	Remark
Setting code on	00000000	If the setting code off, need to turn on the setting code firstly
TTL-232 Serial mode	01000000	
USB-HID mode	01000001	
USB- Virtual serial port mode	01000002	
HID&TTL simultaneous output mode	01000003	
HID-KBW	01010000	
HID-POS	01010001	
1200bps	010209C4	
4800bps	01020271	
9600bps	01020139	
14400bps	010200D0	
19200bps	0102009C	
38400bps	0102004E	
57600bps	01020034	
115200bps	0102001A	
No checking (NONE)	01030000	
ODD checking	01030001	
EVEN checking	01030002	
PC to HID device access cycle -1ms	01040001	The last two digits of the parameter can be modified for other durations
PC to HID device access cycle -3ms	01040003	
PC to HID device access cycle -5ms	01040005	
PC to HID device access cycle -10ms	0104000A	
Time interval before HID release -1ms	01050001	The last two digits of the parameter can be modified for other durations
Time interval before HID release -2ms	01050002	
Time interval before HID release -5ms	01050005	
Time interval before HID release -10ms	0105000A	
Time interval after HID release -1ms	01060001	The last two digits of the parameter can be modified for other durations
Time interval after HID release -2ms	01060002	
Time interval after HID release -5ms	01060005	
Time interval after HID release -10ms	0106000A	
CapsLock-Off	01070000	
CapsLock-On	01070001	
HID leading prohibition	01080000	
HID preamble allowed	01080001	
Manual mode	02000000	
Level trigger	02010000	
Edge trigger	02010001	
Single reading time -1000ms	0202000A	The last two digits of the parameter can be modified for other durations
Single reading time -3000ms	0202001E	
Single reading time -5000ms	02020032	
Single reading time -10000ms	02020064	

Single reading time-unlimited	02020000	
Command trigger mode	02000001	
Continuous mode	02000002	
Trigger command response allowed	020A0001	
Trigger command response prohibition	020A0000	
Continuous mode button pause is not supported	020A0010	
Continuous mode button pause support	020A0011	
Reading interval-no interval	02050000	The last two digits of the parameter can be modified for other durations
Reading interval -500ms	02050005	
Reading interval -1000ms	0205000A	
Reading interval -3000ms	0205001E	
Reading interval -5000ms	02050032	
The same code reading delay is off	02060000	The duration parameter setting must first enable the same code reading delay
The same code reading delay is on	02060001	
Same reading delay time-infinite delay	02070000	
Same reading delay time -500ms	02070005	The last two digits of the parameter can be modified for other durations
Same reading delay time -1000ms	0207000A	
Same reading delay time -3000ms	0207001E	
Same reading delay time -5000ms	02070032	
Induction mode	02000003	
Normal sensitivity	0209640A	
Low sensitivity	020932A0	
High sensitivity	0209320A	
Very high sensitivity	02093205	
Image stabilization time -0ms	02080000	The last two digits of the parameter can be modified for other durations
Image stabilization time -100ms	02080001	
Image stabilization time -400ms	02080004	
Image stabilization time -1000ms	0208000A	
Image stabilization time -2000ms	02080014	
The fill light turns on when taking pictures	03000000	
Fill light-always on	03000001	
Fill light-always off	03000002	
Aiming light-lights up when taking pictures	03010000	
Aiming light-always on when taking pictures	03010003	
Aiming light-always on	03010001	
Aiming light-always off	03010002	
Deep sleep function is on	02030000	
Deep sleep function is off	02030001	
Mute-on	04000000	
Mute-off	04000001	
Passive buzzer settings	04010005	
Passive-low frequency	04010000	
Passive-mid frequency	04010001	
Passive-high frequency	04010002	
Active buzzer settings	04010006	

Active working level-high level	04010003	
Active working level-low level	04010004	
Set the alert tone-on	04020000	
Set the alert tone-off	04020001	
Boot Prompt-On	04030000	
Boot Prompt-Off	04030001	
LED prompt for successful reading-on	04040000	
LED prompt for successful reading-off	04040001	
Prompt for successful reading-on	04040002	
Prompt for successful reading-off	04040003	
Duration of the prompt tone for successful reading - 30ms	0404011E	The last two digits of the parameter can be modified for other durations
Duration of the prompt tone for successful reading -60ms	0404013C	
Duration of the prompt tone for successful reading -90ms	0404015A	
Duration of the prompt tone for successful reading -120ms	04040178	
Output data format-GBK	04050000	
Output data format -UTF8	04050001	
Output data format –raw data	04050002	
Output data format -UNICODE	04050003	
Output data shield Chinese	04050100	
Output data is not shielded in Chinese	04050101	
American keyboard	04060000	
Czech keyboard	04060001	
French keyboard	04060002	
German keyboard	04060003	
Hungarian keyboard	04060004	
Italian keyboard	04060005	
Japanese keyboard	04060006	
Spanish keyboard	04060007	
Turkish Q keyboard	04060008	
Turkish F keyboard	04060009	
Mexican keyboard (Latin American)	0406000A	
Standard keyboard	04070000	
virtual keyboard	04070001	
Virtual keyboard _Ctrl mode	04070010	
Virtual keyboard _Alt mode	04070011	
Control character output is off	04070012	
Image mirror flip-on	04080000	
Image mirror flip-off	04080001	
Reverse phase prohibition	04090000	
Reverse phase allowed	04090001	
Invoicing mode enabled	040B0000	
Invoicing mode disabled	040B0001	

Local invoicing mode	040B1000	
Online billing mode	040B1100	
Keypad digital output on	040C0000	
Keypad digital output off	040C0001	
Keypad operator output on	040C0002	
Keypad operator output off	040C0003	
Allow prefix	05000000	
Prohibit adding prefix	05000001	
Modify prefix	05000002	
Allow suffix	05010000	
No suffix	05010001	
Modify suffix	05010002	
Allow to add CODE ID	05020000	
Prohibit to add CODE ID	05020001	
Restore the default value of CODE ID	05020002	
Modify the CODE ID of EAN13	05030000	
Modify the CODE ID of EAN8	05030001	
Modify the CODE ID of UPC-A	05030002	
Modify the CODE ID of UPCE0	05030003	
Modify the CODE ID of UPCE1	05030004	
Modify the CODE ID of CODE128	05030005	
Modify the CODE ID of CODE39	05030006	
Modify the CODE ID of CODE93	05030007	
Modify the CODE ID of Code Bar	05030008	
Modify the CODE ID of Interleaved 2 of 5	05030009	
Modify the CODE ID of Industrial 25	0503000A	
Modify the CODE ID of Matrix 2 of 5	0503000B	
Modify the CODE ID of CODE11	0503000C	
Modify the CODE ID of MSI Plessey	0503000D	
Modify the CODE ID of RSS	0503000E	
Modify the CODE ID of the limited RSS	05030010	
Modify the CODE ID of the extended RSS	05030011	
Modify the CODE ID of QR CODE	05030012	
Modify the CODE ID of DataMatrix	05030013	
Modify the CODE ID of the limited PDF417	05030014	
Modify the CODE ID of Mico QR	05030015	
Modify Han Xin code CODE ID	05030016	
Modify the CODE ID of Micro PDF417	05030017	
Modify Standard 2 of 5 Code ID	05030018	
Modify Plessey's CODE ID	05030019	
Modify the CODE ID of ChinaPost 25	0503001A	
Modify the CODE ID of Code 16K	0503001B	
Modify the CODE ID of Code 49	0503001C	
Modify the CODE ID of Maxi Code	0503001D	
Modify Aztec's CODE ID	0503001E	
Closing terminator	05040000	

Add terminator CR	05040001	
Add terminator TAB	05040002	
Add terminator CRLF	05040003	
Transfer the entire data	05050000	
Only the Start segment is transmitted	05050001	
Only the End segment is transmitted	05050002	
Only the Center segment is transmitted	05050003	
Modify the length of the Start segment	05050004	
Modify the length of the End segment	05050005	
Allow sending RF information	05060000	
Prohibit sending RF information	05060001	
Modify RF information	05060002	
Pure data output	05070000	
With protocol output	05070001	
GS replacement is on	050A0000	
GS replacement is off	050A0001	
GS replacement information modification	050A0002	
Allow to read URL codes	050B0000	
Prohibit reading URL codes	050B0001	
Fast POS mode	06000000	
Serial port & full code open mode	06000001	
Allow reading all types	07000000	
Prohibit reading all types	07000001	
Allow literacy enhancement	07000007	
Prohibit literacy enhancement	07000008	
Open the default reading type	07000002	
Allow to send product code check digit	05090000	
Prohibit sending product code check digit	05090001	
Enable EAN13	07010000	
Disable EAN13	07010100	
EAN13 forced output additional code	07011000	
EAN13 does not require additional codes to be output	07011100	
EAN13-2 bit additional code enable	07012000	
EAN13-2 bit additional code disable	07012100	
EAN13-5 bit additional code enable	07013000	
EAN13-5 bit additional code disable	07013100	
Allow sending EAN13 check digit	07014000	
Prohibit sending EAN13 check digit	07014100	
Enable EAN8	07020000	
Disable EAN8	07020100	
EAN8 forced output additional code	07021000	
EAN8 does not require additional codes to be output	07021100	
EAN8-2 bit additional code enable	07022000	
EAN8-2 bit additional code disable	07022100	
EAN8-5 bit additional code enable	07023000	

EAN8-5 bit additional code disable	07023100	
Allow sending EAN8 check digit	07024000	
Prohibit sending EAN8 check digit	07024100	
Enable UPC-A	07030000	
Disable UPC-A	07030100	
UPC-A forced output additional code	07031000	
UPC-A does not require additional codes to be output	07031100	
UPC-A-2 bit additional code enable	07032000	
UPC-A-2 bit additional code disable	07032100	
UPC-A-5 bit additional code enable	07033000	
UPC-A-5 bit additional code disable	07033100	
Allow UPC-A to EAN13	05080000	
Prohibit UPC-A to EAN13	05080001	
Allow sending UPC-A check digit	07034000	
Prohibit sending UPC-A check digit	07034100	
Enable UPC-E0	07040000	
Disable UPC-E0	07040100	
UPC-E0 forced output additional code	07041000	
UPC-E0 does not require additional code output	07041100	
UPC-E0-2 bit additional code enable	07042000	
UPC-E0-2 bit additional code disable	07042100	
UPC-E0-5 bit additional code enable	07043000	
UPC-E0-5 bit additional code disable	07043100	
Allow sending UPC-E0 check digit	07044000	
Prohibit sending UPC-E0 check digit	07044100	
Enable UPC-E1	07050000	
Disable UPC-E1	07050100	
UPC-E1 forced output additional code	07051000	
UPC-E1 does not require additional code output	07051100	
UPC-E1-2 bit additional code enable	07052000	
UPC-E1-2 bit additional code disable	07052100	
UPC-E1-5 bit additional code enable	07053000	
UPC-E1-5 bit additional code disable	07053100	
Allow sending UPC-E1 check digit	07054000	
Prohibit sending UPC-E1 check digit	07054100	
Enable Code128	07060000	
Disable Code128	07060100	
The minimum length of Code128 information is 0	07061000	Other lengths can modify the last two digits of the parameter
The minimum length of Code128 information is 4	07061004	
The maximum length of Code128 information is 32	07061120	
The maximum length of Code128 information is 255	070611FF	
Code128 plus prefix (11)-on	07062000	

Code128 plus prefix (11)-off	07062100	
Enable Code39	07070000	
Disable Code39	07070100	
The minimum length of Code39 information is 0	07071000	Other lengths can modify the last two digits of the parameter
The minimum length of Code39 information is 4	07071004	
The longest length of Code39 message is 32	07071120	
The longest length of Code39 message is 255	070711FF	
Code39 start character output	07072000	
Code39 start character is not output	07072100	
Code39 terminator output	07073000	
Code39 terminator is not output	07073100	
Enable Code32	07074000	
Disable Code32	07074100	
Code32 prefix A output	07076000	
Code32 prefix A not output	07076100	
FullASCII supported	07075000	
FullASCII not supported	07075100	
Code39 handle check digit	07077000	
Code39 does not handle check digits	07077100	
Code39 output check digit	07078000	
Code39 does not output check digit	07078100	
Enable Code93	07080000	
Disable Code93	07080100	
The minimum length of Code93 information is 0	07081000	Other lengths can modify the last two digits of the parameter
The minimum length of Code93 information is 4	07081004	
The maximum length of Code93 information is 32	07081120	
The maximum length of Code93 information is 255	070811FF	
Enable CodaBar	07090000	
Disable CodaBar	07090100	
The minimum length of CodaBar information is 0	07091000	Other lengths can modify the last two digits of the parameter
The minimum length of CodaBar information is 4	07091004	
The maximum length of CodaBar information is 32	07091120	
The maximum length of CodaBar information is 255	070911FF	
CodaBar start and end character sending is allowed	07092000	
CodaBar start and end symbol sending is prohibited	07092100	
CodeBar does not handle verification	07093000	
CodeBar only MOD10 verification	07093100	
CodeBar only MOD16 verification	07093200	
CodeBar double check	07093300	
CodeBar output check digits	07094000	
CodeBar does not output check digits	07094100	

Enable Interleaved 2 of 5	070A0000	
Disable Interleaved 2 of 5	070A0100	
The minimum length of Interleaved 2 of 5 information is 0	070A1000	Other lengths can modify the last two digits of the parameter
The minimum length of Interleaved 2 of 5 information is 4	070A1004	
The maximum length of Interleaved2of5 information is 32	070A1120	
The maximum length of Interleaved2of5 information is 255	070A11FF	
Interleaved 2 of 5 check format is Mod10	070A2000	
Interleaved 2 of 5 check format is None	070A2100	
Interleaved 2 of 5 output check digits	070A3000	
Interleaved 2 of 5 does not output check digits	070A3100	
Enable Industrial 25	070B0000	
Disable Industrial 25	070B0100	
The minimum length of the Industrial 25 message is 0	070B1000	Other lengths can modify the last two digits of the parameter
The minimum length of the Industrial 25 message is 4	070B1004	
The longest length of Industrial 25 information is 32	070B1120	
The longest length of Industrial 25 information is 255	070B11FF	
Industrial 25 check format is Mode10	070B2000	
Industrial 25 check format is None	070B2100	
Industrial 25 output check digit	070B3000	
Industrial 25 does not output check digit	070B3100	
Enable Matrix 2 of 5	070C0000	
Disable Matrix 2 of 5	070C0100	
The shortest length of Matrix 2 of 5 information is 0	070C1000	Other lengths can modify the last two digits of the parameter
The shortest length of Matrix 2 of 5 information is 4	070C1004	
The longest length of Matrix 2 of 5 information is 32	070C1120	
The longest length of Matrix 2 of 5 information is 255	070C11FF	
Matrix 2 of 5 verification format is Mod10	070C2000	
Matrix 2 of 5 check format is None	070C2100	
Matrix 2 of 5 output check digits	070C3000	
Matrix 2 of 5 does not output check digits	070C3100	
Enable Code11	070D0000	
Disable Code11	070D0100	
The minimum length of Code11 information is 0	070D1000	Other lengths can modify the last two digits of the parameter
The minimum length of Code11 information is 4	070D1004	
The maximum length of Code11 information is 32	070D1120	
The maximum length of Code11 information is 255	070D11FF	
Code11-1bit check	070D2000	
Code11-2bit check	070D2100	
Code11 output check digit	070D3000	
Code11 does not output check digit	070D3100	
Enable MSI Plessey	070E0000	

Disable MSI Plessey	070E0100	
The minimum length of MSI Plessey message is 0	070E1000	Other lengths can modify the last two digits of the parameter
The minimum length of MSI Plessey message is 4	070E1004	
The maximum length of MSI Plessey information is 32	070E1120	
The maximum length of MSI Plessey information is 255	070E11FF	
MSI Plessey verification format is single Mod10	070E2000	
MSI Plessey verification format is dual Mod10	070E2100	
MSI Plessey output check digits	070E3000	
MSI Plessey does not output check digits	070E3100	
Enable RSS-14	070F0000	
Disable RSS-14	070F0100	
RSS-14 AI output without brackets	070F5000	
RSS-14 AI output with brackets	070F5100	
Enable Limited RSS	070F1000	
Disable Limited RSS	070F1100	
Limited RSS AI output without brackets	070F7000	
Limited RSS AI output with brackets	070F7100	
Enable Extended RSS	070F2000	
Disable Extended RSS	070F2100	
Extended RSS AI output without brackets	070F9000	
Extended RSS AI output with brackets	070F9100	
The minimum length of the RSS message is 0	070F3000	Other lengths can modify the last two digits of the parameter
The minimum length of the RSS message is 4	070F3004	
The maximum length of the RSS message is 32	070F3120	
The maximum length of the RSS message is 255	070F31FF	
Enable Standard 2 of 5	07200000	
Disable Standard 2 of 5	07200100	
The minimum length of the Standard 2 of 5 message is 0	07201100	Other lengths can modify the last two digits of the parameter
The minimum length of the Standard 2 of 5 message is 4	07201104	
The maximum length of Standard 2 of 5 information is 32	07201120	
The maximum length of Standard 2 of 5 information is 255	072011FF	
Standard 2 of 5 checking-on	07202000	
Standard 2 of 5 checking-off	07202100	
Standard 2 of 5 does output check digit	07203000	
Standard 2 of 5 does not output check digit	07203100	
Enable Plessey	07210000	
Disable Plessey	07210100	

The minimum length of Plessey message is 0	07211100	Other lengths can modify the last two digits of the parameter
The minimum length of Plessey message is 4	07211104	
The maximum length of Plessey information is 32	07211120	
The maximum length of Plessey information is 255	072111FF	
Plessey check-on	07212000	
Plessey check-off	07212100	
Plessey output check digit	07213000	
Plessey does not output check digits	07213100	
Enable ChinaPost 25	07220000	
Disable ChinaPost 25	07220100	
The shortest message length of ChinaPost 25 is 0	07221100	Other lengths can modify the last two digits of the parameter
The shortest message length of ChinaPost 25 is 4	07221104	
The longest message length of ChinaPost 25 is 32	07221120	
The longest message length of ChinaPost 25 is 255	072211FF	
ChinaPost 25 verification-on	07222000	
ChinaPost 25 verification-off	07222100	
ChinaPost 25 does output check digit	07223000	
ChinaPost 25 does not output check digit	07223100	
Enable Code16K	07230000	
Disable Code16K	07230100	
The minimum length of Code16K message is 0	07231100	Other lengths can modify the last two digits of the parameter
The minimum length of Code16K message is 4	07231104	
The longest length of Code16K message is 255	07231120	
The longest length of Code16K message is 255	072311FF	
Enable Code49	07240000	
Disable Code49	07240100	
The minimum length of Code49 message is 0	07241100	Other lengths can modify the last two digits of the parameter
The minimum length of Code49 message is 4	07241104	
The longest length of Code49 message is 32	07241120	
The longest length of Code49 message is 255	072411FF	
Enable QR	07140000	
Disable QR	07140100	
QR Mode 1-On	07141000	
QR Mode 1-Off	07141100	
QR plus prefix (11)-on	07142000	
QR plus prefix (11)-off	07142100	
Enable DM	07150000	
Disable DM	07150100	

Allow to read multiple DMs at the same time	07151000	
Prohibit reading multiple DM barcodes at the same time	07151100	
Enable PDF417	07160000	
Disable PDF417	07160100	
Enable Hanxin code	07170000	
Disable Hanxin code	07170100	
Enable Micro PDF417	07180000	
Disable Micro PDF417	07180100	
Enable Micro QR	07190000	
Disable Micro QR	07190100	
Enable Maxi Code	071A0000	
Disable Maxi Code	071A0100	
Enable Aztec	071B0000	
Disable Aztec	071B0100	
Save	08000000	
Cancel the bit of previous data	08000001	
Cancel a string of data previously read	08000002	
Cancel modify settings	08000003	
0	08010000	
1	08010001	
2	08010002	
3	08010003	
4	08010004	
5	08010005	
6	08010006	
7	08010007	
8	08010008	
9	08010009	
A	0801000A	
B	0801000B	
C	0801000C	
D	0801000D	
E	0801000E	
F	0801000F	