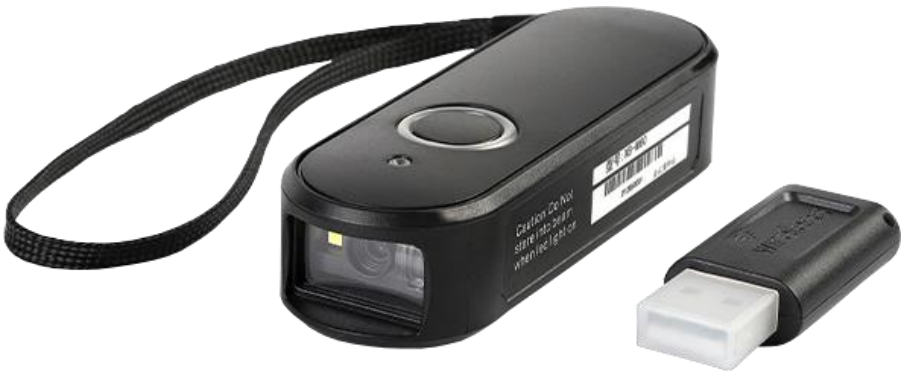
IMAGO

K-60
instruction manual



catalogue

1 Product introduction

1.1 Factory Default

Terminator：Enter(\r)。

Factory Default

1.2 Obtain device information

product version number

2 Wireless part setting

2.1 Bluetooth pairing setting code

（1）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）

（2）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	The pairing code II
X=0100	X=0101
Disconnect	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

X=0100

disconnect

The pairing code II

X=0101

connect

2.2 Show and hide keyboard (for apple devices only)

X=0104

Show or hide the keyboard

2.3 Mode selection

X=0010	X=0011
Instant upload mode	Inventorymode
X=0012	
Hyperspace storage mode	

①Operation in stocktaking mode

X=0013	X=0014
Upload all data	Upload new data
X=0015	X=0016
Show saved data	Show upload data

X=0017

Clear all the data

2.4. Singlechip restore factory setup

X=0020

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

X=0018	X=0019
No delay	delayed

2.6 Query software version

X=0021	X=0636
Query scanner sofeware version	Query the receiving end version number

2.7 Set the sleep time

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

X=1000	X=1006
non-dormant	60 seconds
X=1012	X=1030
120 seconds	5 minutes
X=1060	
10 minutes	

2.8 Set bluetooth broadcast time

X=2yyy(Broadcast formula: yyy*5=z s)

Note: the minimum broadcast time is 30 seconds

X=2006	X=2012
30s	60s
X=2024	
120s	

2.9 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.

X=0637

USB KBW keyboard

2.10 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

X=0638

USB COM

2.11 Chinese Settings

X=0630	X=0631
Chinese is not supported	Support Chinese

2.12 Transmission speed selection

X=0650	X=0651
Don't delay	Delay 5 ms
X=0652	X=0653
Delay 10 ms	Delay 15 ms
X=0654	X=0655
Delay 20 ms	Delay 25 ms
X=0656	X=0657
Delay 30 ms	Delay 35 ms
X=0658	X=0659
Delay 40 ms	Delay 45 ms

2.13 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.

X=0600	X=0601	X=0607
* USA	Belgium	Finland
X=0608	X=0609	X=0611
France	Germany	Italy
X=0621	X=0626	X=0606
Sweden	UK	Denmark
X=0614	X=0620	X=0616
Norway	Spanish	Portugal
X=0624	X=0625	X=0627
Turkey F	Turkey Q	Japan
X=0602	X=0605	X=0603
Brazil	Czech	Canada
X=0610	X=0613	X=0615
Hungary	Netherlands	Poland

X=0618	X=0619	X=0622
Slovakia	Slovenia	Switzerland-French
X=0623		
Switzerland-German		

2.14 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.

X=0632	X=0633
*Disable	Uppercase
X=0634	X=0635
Lowercase	Case Reverse

3 Reading mode

3.1 Trigger mode

In the trigger mode, when the trigger control interface of the reading module changes to the trigger level, the reading module starts shooting and reading; within the limited time range of "single reading time", if the trigger level is maintained, it will continue shoot and read until you succeed. When the trigger level is cancelled, or the reading exceeds the single reading time limit, the shooting and reading will be suspended. When the reading is successful, the reading module will output the edited content through the communication interface. To start a new trigger reading, the host needs to cancel the trigger level first, and then send the trigger level.

* trigger mode

3.2 Continuous mode

Continuous mode refers to the working mode in which the reading module shoots, reads and outputs information in a continuous cycle.In this mode, regardless of whether it is the same bar code, the reading module will recognize and output.

In continuous mode, the trigger can be used to stop continuous reading or continue continuous reading.In continuous reading, the trigger is withdrawn again, and the reading will be suspended.When the reading state is suspended, the trigger is revoked and the reading continues.This configuration may not be in effect while in continuous reading state.

Continuous Mode

3.3 Autosensing Mode

Setting into the autosensing mode,the reader will immediately began to monitor the brightness of the surrounding environment, when the scene changes, the reader waits for the set of image stabilization time after the end of reading. After reading the successful output of information or single reading time-out, the reader will be some time interval (can be set) to re-enter the monitoring state.

In the autosensing mode, the reader can also start reading the code after pressing the trigger key, and continue to monitor the brightness of the surrounding environment when the reading code successfully outputs the message or release the trigger key.It need to be released the trigger before re-enter the monitoring state.

Auto sensing Mode

4 Lighting and aiming

4.1 Lighting

Lighting for shooting photography to provide auxiliary lighting, beam exposure to the reading target, to improve reading performance and adaptability to weak ambient light. The user can set it to one of the following depending on the application environment:

Normal (default setting): The light is on when taking a picture, and off at other times.

Always: The light is on after the module is switched on.

No lighting :The lighting does not illuminate under any circumstances.

	
*Normal	
	
No lighting	Always

4.2 Aiming

There is a projection device on the reading module, which is used to project a special figure when shooting the reading module, and it represents the center of the scene image shot by the reading module.When the reading module is used to shoot and read, the image is projected on the reading target, and the reading module "aims" at the reading target, so that the required target can be read out more easily.

Normal (default setting): The light is on when taking a picture, and off at other times.

Always: The light is on after the module is switched on.

No lighting :The lighting does not illuminate under any circumstances.

	
*Normal	
	
No lighting	Always

5 Prompt output

5.1 Prompt tone volume

	
*High volume	Mid volume
	
Low volume	

5.2 All beeps

In various scenarios, the reading module has the boot prompt sound, the successful reading prompt sound and the setting code prompt sound.This setting code can control all the prompts.

	
Sound off	*Sound on

5.3 Invoice mode

	
*Allow invoice mode	Prohibit invoice mode

5.4 Data Editing

5.4.1 Comprehensive settings

For all "add" operations

The "add" operation refers to: start character, code ID addition, custom prefix information addition, custom suffix information addition, and terminator addition. The following "Allow all information to add" and "Prohibit all information to add" have an effect on the above several functions at the same time.

- "Allow all information to be added": The start character, Code ID, prefix, suffix, end character, etc. will be allowed to be added to the data output content.
- "Prohibit adding all information": The start character, Code ID, prefix, suffix, end character, etc. will not be added to the data output content.

	
Allow all information to be added	Prohibit all information to be added

5.4.2 Increase length information output

This configuration is suitable for non-keyboard interfaces. Before the device outputs data, increase the length of two bytes, including all other information.

	
*Not output decoding length information	Output decoding length information

5.4.3 Start character

	
*No start character	starting symbol STX

5.4.4 Prefix and Code ID order selection

When both the Code ID and Prefix fields are configured to require output, the order of the two fields can be selected through the following two setting codes, and the content order of the other fields will be output later。

Code ID+Prefix

*Prefix+Code ID

5.5 Prefix

5.5.1 Add prefix

The prefix is a character string that can be customized and modified by the user before decoding the information.

Allow prefix

*No prefix

5.5.2 Modify prefix

Read the "modify prefix content" setting code, and combine the read data code to modify the prefix content. Use 2 hexadecimal values for each prefix character, and the prefix allows up to 16 characters. Please refer to Appendix C for the hexadecimal conversion table of character values.

Modify prefix content

Example: Set the custom prefix to "CODE":

1. Check the character table to get the hexadecimal value corresponding to the 4 characters of "CODE": 43, 4F, 44, 45;
2. Read the "Enable Setting Code" (if it is already turned on, you can ignore it);
3. Read the "modify prefix content" setting code;
4. Read the following data code: "4" "3" "4" "F" "4" "4" "4" "5";
5. Read the "Save" setting code;

5.6 Code ID

5.6.1 add Code ID

Users can use Code ID to identify different bar code types, and the Code ID corresponding to each bar code type can be modified freely. The CodeID of all barcodes is 1 character, and must be a letter, and cannot be set as a number, invisible character, or punctuation, etc.

Allow to add CODE ID

*no allow to add CODE ID

Read the following setting code to restore the Code ID of all barcode types to the default value, please use it with caution.

The default CODE ID for all bar codes

5.6.2 Modify the CODE ID

The Code ID of each bar code type can be modified independently, and it needs to be used by reading the corresponding setting code and combining it with the data code.

Example of modifying PDF417 Code ID to the letter ‘p’:

1. Look up the table and get the hexadecimal value corresponding to "p" is 70;
2. Read "Enable Setup Code";
3. Read the setting code of "Modify PDF417 Code ID";
4. Read the data code "7", "0";
5. Read "Save";
6. Read "Close Setting Code".

Modify the Code ID setting code list of each barcode type：

Modify PDF417 Code ID

Modify Code128 Code ID

Modify QR Code ID

Modify DM Code ID

Modify EAN8 Code ID

Modify EAN13 Code ID

Modify UPCE0 Code ID

Modify UPCE1 Code ID

Modify UPCA Code ID

Modify IATA25 Code ID

Modify Code 39 Code ID

Modify Code 93 Code ID

Modify Interleaved 2 of 5 Code ID

Modify Codabar Code ID

Modify Industrial 25 Code ID

Modify Matrix 25 Code ID

Modify Code 11 Code ID

Modify MSI Plessey Code ID

Modify Micro QR Code ID

Modify Code32 Code ID

Modify ISBN Code ID

Modify ISSN Code ID

Modify GS1 128 Code ID

Modify AIM 128 Code ID

Modify ISBT 128 Code ID

Modify Micro PDF417 Code ID

Modify Aztec Code ID

5.7 Suffix

5.7.1 Add a suffix

The suffix is a character string that can be customized and modified by the user after decoding the information.

Allow to add a suffix

***no allow to add a suffix**

5.7.2 Modify the suffix

Read the "modify suffix content" setting code, and combine the read data code to modify the suffix content. Use 2 hexadecimal values for each suffix character, and the suffix allows up to 16 characters. Please refer to Appendix C for the hexadecimal conversion table of character values.

Modify the suffix

Example: Set the custom suffix to "CODE":

1. Check the character table to get the hexadecimal value corresponding to the 4 characters of "CODE": 43, 4F, 44, 45;

2. Read the "Enable Setting Code" (if it is already turned on, you can ignore it);

3. Read the "modify suffix content" setting code;

4. Read the following data codes: "4", "3", "4", "F", "4", "4", "4", "5";

5. Read the "Save" setting code;

5.8 Terminator

The terminator is used to mark the end of a piece of complete data information, and is used to indicate the complete end of a data output. The terminator is 1-7 characters.

5.8.1 Add terminator

Choose to read the following setting codes, you can make the reading module add the end character, or no longer add the end character.

*Add terminator

No add terminator

5.8.2 Modify the terminator

Read the following setting codes, you can quickly set the terminator to 0x0D or 0x0D, 0x0A.

*Set the end of addition to 0x0D

Set the end of addition to 0x0D 0x0A

Read the "modify end character" and combine to read the data code to modify the character content of the end character.

When modifying the terminator, use 2 hexadecimal values to represent the characters, and read 2 or 4 values sequentially to represent 1 character or 2 characters. Refer to Appendix C for the hexadecimal conversion of characters.

Modify the terminator

Modify the terminator to be the letter 0x0D Example:

1. Read the "Enable Setting Code" (if it is already turned on, you can ignore it);
2. Read the "modify end character" setting code;
3. Read the data code "0", "D";
4. Read "Save"；

5.8.3 Quick configuration terminator

Closing terminator

*to add the carriage return CR

Add carriage return and line feed CRLF

Add LF

Add tab stops TAB

Add terminator ETX

5.9 Data segment editing

5.9.1 Data segment interception

The decoding information Data consists of 3 parts: [Start] [Center] [End].

The user can select part of the information to be output by reading the following setting codes.

*Transfer the entire Data

Only transfer the Start segment

Only the End segment is transmitted

Only transfer Center segment

5.9.2 Data segment length modification

Modify the length of the Start section

Modify the length of the End section

It is necessary to read the corresponding setting code and use it in combination with the data code. The length can be modified from 0-255.

Modify the length of the Start segment to 0x02, example:

1. The hexadecimal system of 0x02 is represented by the data code "0" and "2";
2. Read "Enable Setup Code";
3. Read the setting code of "Modify Start Segment Length";
4. Read the data code "0", "2";
5. Read "Save";

6 Barcode symbol parameters

6.1 Global operations

6.1.1 Operations on all symbol types

Reading the following setting codes will operate on all supported symbol types, allowing or prohibiting reading. After prohibiting reading all types, only setting codes are allowed to be read.

Allow reading all types

Prohibit reading all types

6.1.2 Operation on all one-dimensional bar code symbol types

Read the following setting codes, and only perform unified operations on all one-dimensional bar code symbol types, or all allow reading, or all prohibit reading.

Allows to read all one-dimensional barcode types

Prohibit reading all 1D barcode type

6.1.3 Operation of all 2D barcode symbol types

Read the following setting codes, and only perform unified operations on all 2D barcode symbol types, or all allow reading, or all prohibit reading.

Allow to read all 2D barcode types

Prohibit reading all QR code types

6.2 Inverse color code setting

If this configuration is turned on, the recognition speed will be affected. Please turn it on in the scene you need to use.

6.2.1 Operate all reverse color codes

Allow to read the reverse color code

*Prohibit read the reverse color code

6.2.2 1D code reverse color setting

Allows to read 1D reverse color code

Probit reading 1D Reverse color code

6.2.3 QR code reverse color setting

Enable PDF417 reverse color code

Disable PDF417 reverse color code

Enable DM reverse color code

Disable DM reverse color

Enable QR reverse color code

Disable QR reverse color code

Enable MicroPDF417 reverse color code

Disable MicroPDF417 reverse color code

Enable Aztec reverse color code

Disable Aztec reverse color code

6.3 Code 128

6.3.1 Restore default settings

Code 128 (Defaulted)

6.3.2 Enable/Disable Code 128

Enable Code 128

Disable Code 128

6.3.3 Set length limit

*Set minimum length limit 00

Set minimum length limit 04

Set maximum length limit 32

*Set the maximum length limit to 255

Customize the minimum length

Customize the maximum length

6.4 EAN-8

6.4.1 Restore default settings

EAN8 (Defaulted)

6.4.2 Enable/Disable EAN-8

*Enable EAN-8

Disable EAN-8

6.4.3 Output verification

EAN-8 The barcode data is fixed to 8 bytes, of which the last byte is the checksum.

*Output check

No output check

6.4.4 Extension code

After setting to "Read 2-digit extension code" or "Read 5-digit extension code", the reader module can read barcode symbols with extension codes, or barcode symbols without extension codes. After setting to "Do not read 2-digit extension code" or "Do not read 5-digit extension code", the extension code attached to the bar code symbol will not be read and output.

Disable 2-digit extension code

Enable 2-digit extension code

*Disable 5-digit extension code

Enable 5-digit extension code

6.5 EAN-13

6.5.1 Restore default settings

EAN-13 (Defaulted)

6.5.2 Enable/Disable EAN-13

Enable EAN-13

Disable EAN-13

6.5.3 Output verification

*Output check

*No Output check

6.5.4 Extension code

After setting to "Read 2-digit extension code" or "Read 5-digit extension code", the reader module can read barcode symbols with extension codes, or barcode symbols without extension codes. After setting to "Do not read 2-digit extension code" or "Do not read 5-digit extension code", the extension code attached to the bar code symbol will not be read and output.

*Disable 2-digit extension code

Enable 2-digit extension code

*Disable 5-digit extension code

Enable 5-digit extension code

6.5.5 EAN13 to ISBN

Other configurations are the same as EAN13.

Disable EAN13 to ISSN

Enable EAN13 to ISSN

6.5.6 EAN13 to ISSN

Other configurations are the same as EAN13.

* Disable EAN13 to ISSN

Enable EAN13 to ISSN

6.6 UPCE0

6.6.1 Restore default settings

UPCE0 (Defaulted)

6.6.2 Enable /Disable UPC-E0

*Enable UPCE0

Disable UPCE0

6.6.3 Output verification

*Output check

*No Output check

6.6.4 Output system characters

*Output system characters

No output system characters

6.7 UPCE1

6.7.1 Restore default settings

UPCE1 (Defaulted)

6.7.1 Enable/Disable UPCE1

*Enable UPCE1

Disable UPCE1

6.7.2 Output verification

*Output check

*No Output check

6.7.3 Output system characters

*Output system characters

No Output system characters

6.7.4 Extension code

After setting to "Read 2-digit extension code" or "Read 5-digit extension code", the reader module can read barcode symbols with extension codes, or barcode symbols without extension codes. After setting to "Do not read 2-digit extension code" or "Do not read 5-digit extension code", the extension code attached to the bar code symbol will not be read and output.

*Disable 2-digit extension code

Enable 2-digit extension code

*Disable 5-digit extension code

Enable 5-digit extension code

6.8 UPCA

6.8.1 Restore default settings

UPCA (Defaulted)

6.8.2 Enable/Disable UPCA

*Enable UPCA

Disable UPCA

6.8.3 UPCA to EAN13

*Disable

Enable

6.8.4 Output verification

*Output check

No output check

6.8.5 Output system characters

*Output system characters

No output system characters

6.8.6 Extension code

After setting to "Read 2-digit extension code" or "Read 5-digit extension code", the reader module can read barcode symbols with extension codes, or barcode symbols without extension codes. After setting to "Do not read 2-digit extension code" or "Do not read 5-digit extension code", the extension code attached to the bar code symbol will not be read and output.

*Disable 2-digit extension code

Enable 2-digit extension code

*Disable 5-digit extension code

Enable 5-digit extension code

6.9 Interleaved 2 of 5

6.9.1 Restore default settings

InterLeaved25(Defaulted)

6.9.1 Enable /Disable InterLeaved25

*Enable InterLeaved25

Disable InterLeaved25

6.9.2 Set length limit

*Set minimum length limit 00

Set minimum length limit 04

Set maximum length limit 32

*Set the maximum length limit to 255

Customize the minimum length

Customize the maximum length

6.9.3 Check and output check

Interleaved 2 of 5 barcodes do not require verification, and users can choose to use verification according to different applications. Set to "No Verification", the reading module will not verify the barcode data.

Set to "USS verification but not output verification", the reading module will verify the barcode data, and the output data after the verification is passed will not contain the verification character.

Set to "USS verification and output verification", the reading module will verify the barcode data, and the output data after the verification is passed contains the check character.

*No check

USS check but not output check

USS verification and output verification

6.10 Matrix 2 of 5

6.10.1 Restore default settings

Restore Matrix 25 default settings

6.10.2 Enable/Disable Matrix 25

Enable Matrix 25

*Disable Matrix 25

6.10.3 Set length limit

*Set minimum length limit 00

Set minimum length limit 04

Set maximum length limit 32

*Set the maximum length limit to 255

Customize the minimum length

Customize the maximum length

6.10.4 Check and output check

*No Check

Check but do not output check

Check and output check

6.11 Industrial 2 of 5

6.11.1 Restore Default Setting

Industrial 25 (Defaulted)

6.11.2 Enable /Disable Industrial 25

Enable Industrial 25

*Disable Industrial 25

6.11.3 Set length Limit

*Set minimum length limit00

Set minimum length limit04

Set maximum length limit32

*Set maxmum length limit255

Customized the minimum length

Customized the maximum length

6.11.4 Check and output check

*No check out

Check but not output check

Check but not output check

6.12 IATA 2 of 5

6.12.1 Restore default setting

IATA 25 (Defaulted)

6.12.2 Enable/ Disable IATA 25

Enable IATA 25

*Disable IATA 25

6.12.3 Set length Limit

*Set minimum length limit00

Set minimum length limit04

Set maximum length limit32

*Set minimum length limit255

Customized the minimum length

Customized the maximum length

6.12.4 Check and output check

*No check

Check but not output check

Check and output check

6.13 Code 39

6.13.1 Restore default setting

Code 39 （Defaulted）

6.13.2 Enable/Disable Code 39

*Enable Code 39

Disable Code 39

6.13.3 Enable/Disable Starting character and Ending character

Enable starting character and Ending character

*Disable starting character and Ending character

6.13.4 Enable/Disable Set Length Limit

*Set minimum length limit00

Set minimum length limit04

Set maximum length limit32

*Set maximum length limit255

Customized minimum length

Customized minimum length

6.13.5 Check and output check

*No Check

Check but not output check

Check and output check

6.13.6 Disable/Enable Code32

*Disable Code32

Enable Code32

6.13.7 Full ASCII Support

The encoding method of Code 39 can include the representation of all ASCII characters. By setting, the reading module can support bar codes containing the full ASCII character set.

Enable Full ASCII

*Disable Full ASCII

6.14 Codabar

6.14.1 Restore Default Setting

Codabar (Defaulted)

6.14.2 Enable/Disable Codabar

*Enable Codabar

Disable Codabar

6.14.3 Set Length Limit

*Set minimum length limit00

Set minimum length limit04

Set maximum length limit32

*Set maximum length limit255

Customized minimum length

Customized maximum length

6.14.4 Set whether to output verification

*No check

Module 10Check and output check

Module 10Check and output check

Module 16check and output check　　Module 16Check but not output check

6.14.5 Enable/Disable Starting character and Ending character

There is a character before and after the Codabar barcode data as the start character and the stop character. The start character and the stop character are one of the four characters "A", "B", "C", and "D". The terminator is represented by "T", "N", "*", and "E". It can be set to not output the start character and stop character or output one of four formats.

Disable start character and stop character

*Enable starting character ABCD/Ending character ABCD

Enable starting character ABCD/Ending character TN*E

Enable starting character abcd/Ending character abcd

Enable start character abcd/stop character tn *e

6.15 Code 93

6.15.1 Restore Default setting

Code 93 (Defauled)

6.15.2 Enable/Disable Code 93

*Enable Code 93

Disable Code 93

6.15.3 Set length limit

*Set minimum length limit00

Set minimum length limit04

Set maximum length limit32

*设置最大长度限制 255

Customized minimum length

Customized maximum length

6.16 Code 11

6.16.1 Restore Default Setting

Code 11 (Defaulted)

6.16.2 Enable/Disable Code 11

Enable Code 11

*Disable Code11

6.16.3 Set length limit

*Set minimum length limit00

Set minimum length limit04

Set maximum length limit32

*Set maximum length limit255

Customized minimum length

Customized maximum length

6.17 MSI Plessey

6.17.1 Restore Default Setting

MSI Plessey (Defaulted)

6.17.2 Enable/Disable MSI Plessey

Enable MSI Plessey

*Disable MSI Plessey

6.17.3 Set length limit

*Set minimum length limit00

Set minimum length limit04

Set maximum length limit32

*Set maximum length limit255

Customized minimum length

Customized maximum length

6.18 PDF 417

*Enable PDF 417

Disable PDF 417

6.19 QR Code

*Enable QR

Disable QR

6.20 Micro QR

Enable Micro QR

*Disable Micro QR

6.21 Data Matrix

*Enable Data Matrix

Disable Data Matrix

6.22 Micro PDF417

Enable MicroPDF417

*Disable MicroPDF417

6.23 Aztec

Enable Aztec

*Disable Aztec

7 Data Code

7.1 Data code 0~F

Data code 0

Data code 1

Data code 2

Data code 3

Data code 4

Data code 5

Data code 6

Data code 7

Data code 8

Data code 9

Data code A

Data code B

Data code C

Data code D

Data code E

Data code F

7.2 Save or Cancel

After reading the data code, it is necessary to read the save code to save the read data. In addition to resetting, if you make an error while reading the data code, you can also cancel reading the wrong data.

For example, if a setting code is read and the data "1", "2" and "3" are successively read, the last read digit "3" will be cancelled if "Cancel the last read bit of data"; if "Cancel the previous read string of data" will be cancelled if "123" is read; if "Cancel the current setting" will be cancelled with the setting code.

Save

Cancel the last read bit of data

Cancel the previous read string of data

Cancel the current setting

Appendix A: Default Settings Table

Parameter name		Default settings	Remark
Code setting			
Code function setting		Enable	
Send out code setting info		Do not send out	
Communication setting		Keyboard	
TTL-232 Stop bit	Baud rate	9600	
	Check	No check	
	Data bit	8 bits	
	Stop bit	1 bit	
	Hardware flow control	No	
HID-KBW	HID-KBW Keyboard layout	USA keyboard	
	HID-KBW Delay between the keys	2ms	
	Polling rate	1ms	
Mode Parameters			
The default mode of reading		Trigger mode	Can be selected as batch mode, trigger mode, induction mode, continuous mode.
Trigger mode	Single reading time	3000ms	Setting range：1000~3600000ms
	Trigger condition	Level	
	Same reading delay	No Delay	
	Rereading timeout reset	No	
	Same reading delay time	1500ms	
Induction mode	Single reading time	3000ms	Setting range：1000~3600000ms
	Stabilizing the image time	60ms	Setting range：0~1600ms
	Same reading delay	No Delay	
	Rereading timeout reset	No	
	Same reading delay time	1500ms	Setting range：0~65535ms
	Scenario changes threshold values	10	Setting range：1~50
Continuous mode	Single reading time	3000ms	Setting range：1000~3600000ms
	reading interval time	1000ms	Setting range：0~65535ms
	Same reading delay	No delay	
	Rereading timeout reset	No	
	Same reading delay time	1500ms	Setting range：0~65535ms

Lighting and aiming			
Lighting mode		Normal	
Aiming mode		Normal	
Prompt output			
Power on prompt		Output	
Parameter name		Default settings	Remark
Reading successful Prompt	Notification	Allow	
	Prompt type	Type 3	
	Prompt volume	High	
Setting bit reading prompt		Allow	
Succeed reading LED notification		Open	
NGR	Sending out notification	Do not send out	
	Prompt content	None	
Data editing			
Prefixes in CodeID order		The prefix comes before the Code ID	
Prefix adding		Not	
Prefix content		No	
CodeID		No	
Suffix adding		No	
Suffix content		No	
Ending character adding		YES	
Ending character content		0x0D	
Data segment interception		Transmits the entire Data segment	
Data segment length modification		0	Setting range：0~255
Output encoding type		GBK	Optional GBK, UTF8, Unicode, raw data output
ECI mode		Support	
Invoice mode		Support	
Barcode symbol parameter			
Code128			
Reading		Enable	
Max length		255	
Min length		0	
EAN-8			
Reading		Enable	
Output check character		Output	
2-bit extension code		Disable	
5-bit extension code		Disable	
EAN-13			

Reading	Enable	
Output check character	Output	
2-bit extension code	Disable	
5-bit extension code	Disable	
EAN13 to ISBN	Disable	
EAN13 to ISSN	Disable	
Parameter name	Default settings	Remark
UPC-E0		
Reading	Enable	
Output check character	Output	
Output system character	Output	
UPC-E1		
Reading	Enable	
Output check character	Output	
Output system character	Output	
2-bit extension code	Disable	
5-bit extension code	Disable	
UPCA		
Reading	Enable	
UPCA to EAN13	Disable	
Output check character	Output	
2-bit extension code	Disable	
5-bit extension code	Disable	
Output system character	Output	
Interleaved 2 of 5		
Reading	Enable	
Check	No check	
Output check character	Output	
Max length Size	255	
Min length	0	
Matrix 2 of 5		
Reading	Disable	
Check	No Check	
Output check character	NO	
Max length	255	
Min length	0	
Industrial 2 of 5		
Reading	Disable	
Checking	No	
Output check character	NO	

Max length	255	
Min length	0	
IATA25		
Reading	No	
Check	No	
Output check character	NO	
Max length	255	
Parameter name	Default settings	Remark
Min length	0	
Code 39		
Reading	Enable	
Check	No	
Output check character	NO	
Output starting character and ending character	NO	
Full ASCII support	NO	
Convert to Code 32	NO	
Max length	255	
Min length	0	
Codabar		
Reading	Enable	
Check	No	
Output check character	NO	
Output starting character and ending character	NO	
Starting character and ending character format	ABCD/ABCD	
Max length	255	
Min length	0	
Code 93		
Reading	Enable	
Max length	255	
Min length	0	
Code11		
Reading	No	
Max length	255	
Min length	0	
MSI Plessey		
Reading	No	
Max length	255	
Min length	0	

PDF417		
Reading	Enable	
QR		
Reading	Enable	
Micro QR		
Reading	No	
Data Matrix		
Reading	Enable	
Micro PDF417		
Reading	No	
Parameter name	Default settings	Remark
Aztec		
Reading	No	
Inverse color code	NO	

Appendix B: Code ID Table

Code Type	Code ID
Code128	j
EAN-8	d
EAN-13	d
UPC-E0	c
UPC-E1	c
UPCA	c
Interleaved 2 of 5	e
Matrix 2 of 5	v
Industrial 2 of 5	D
IATA25	s
Code 39	b
Codabar	a
Code 93	i
PDF417	r
QR	Q
Data Matrix	u
Code 11	H
MSI Plessey	J
Micro QR	Q
Code32	b
ISBN	d
ISSN	d
MicroPDF417	s
Aztec	z
GS1128	j
AIM 128	f
ISBT 128	F

Appendix C: ASCII Code Table

Hexadecimal	Decimal	Character
00	0	NUL (Nullchar.)
01	1	SOH (StartofHeader)
02	2	STX (Start ofText)
03	3	ETX (End ofText)
04	4	EOT (EndofTransmission)
05	5	ENQ (Enquiry)
06	6	ACK (Acknowledgment)
07	7	BEL (Bell)
08	8	BS (Backspace)
09	9	HT (HorizontalTab)
0a	10	LF (LineFeed)
0b	11	VT (VerticalTab)
0c	12	FF (FormFeed)
0d	13	CR (CarriageReturn)
0e	14	SO (ShiftOut)
0f	15	SI (ShiftIn)
10	16	DLE (DataLinkEscape)
11	17	DC1 (XON)(DeviceControl1)
12	18	DC2 (DeviceControl2)
13	19	DC3 (XOFF)(DeviceControl3)
14	20	DC4 (DeviceControl4)
15	21	NAK (NegativeAcknowledgment)
16	22	SYN (SynchronousIdle)
17	23	ETB (EndofTrans.Block)
18	24	CAN (Cancel)
19	25	EM (EndofMedium)
1a	26	SUB (Substitute)
1b	27	ESC (Escape)
1c	28	FS (FileSeparator)
1d	29	GS (GroupSeparator)
1e	30	RS (Request toSend)
1f	31	US (UnitSeparator)
20	32	SP (Space)
21	33	! (ExclamationMark)
22	34	" (DoubleQuote)
23	35	# (NumberSign)
24	36	$ (DollarSign)

Hexadecimal	Decimal	Character
25	37	% (Percent)
26	38	& (Ampersand)
27	39	` (SingleQuote)
28	40	((Right/ClosingParenthesis)
29	41	) (Right/ClosingParenthesis)
2a	42	* (Asterisk)
2b	43	+ (Plus)
2c	44	, (Comma)
2d	45	- (Minus/Dash)
2e	46	. (Dot)
2f	47	/ (ForwardSlash)
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	< (LessThan)
3d	61	= (EqualSign)
3e	62	> (GreaterThan)
3f	63	? (QuestionMark)
40	64	@ (ATSymbol)
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

Hexadecimal	Decimal	Character
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/OpeningBracket)
5c	92	\ (BackSlash)
5d	93	] (Right/ClosingBracket)
5e	94	^ (Caret/Circumflex)
5f	95	_ (Underscore)
60	96	' (GraveAccent)
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

Hexadecimal	Decimal	Character
75	117	u
76	118	v
77	119	w
78	120	x
79	121	y
7a	122	z
7b	123	{ (Left/OpeningBrace)
7c	124	| (VerticalBar)
7d	125	} (Right/ClosingBrace)
7e	126	~ (Tilde)
7f	127	DEL (Delete)