User Manual
M3Y-W Scan Engine

Table of Content

1 Introduction

Usb of Setting Barcode

Enter Setting(default)

Exit Setting

Transmit Setting Barcode Data

Do not Transmit Setting Barcode Data default

1.1 Restore to factory default

Restore to Factory Default

2 Interface

2.1 Serial Interface

Serial Interface

Parameter	default
Serial Type	TTL-232
Baud Rate	9600
Parity Type	None
(Data Bits	8
Stop Bits	1
Hardware Flow Control	None

2.1.1 Baud Rate

1200

2400

4800

9600(default)

14400

19200

38400

57600

115200

2.1.2 Check Digit

Disable Check Digit(default)

Odd Parity

Even Parity

2.2 USB HID-KBW

HID-KBW (default)

2.2.1 Decode Session Timeout

虚拟键盘连续按键操作时的按键时间间隔, 间隔时间为上一次按键松开到下一次按键按下。键间延时Setting Range为0~75ms, the default value is 2ms 其设置方法参照Appendix D

Default delay default

No Delay

Short Delay

Long Delay

Custom Delay

2.2.2 Polling Speed

1ms(default)

2ms

3ms

4ms

5ms

6ms

7ms

8ms

9ms

10ms

2.2.3 Countries Keyboard

English US default

French

Italian

German

Spanish

Turkish Q

English UK

Belgium

Portuguese-Portugal

Portuguese-Brazil

2.2.4 Alt Combination Output ASCII Characters

In order to allow the device to input any ASCII character (with hexadecimal values ranging from 0x00 to 0xFF) in any language layout, the virtual keyboard can be set to the **Alt Combination Output ASCII Character** mode. When using this combination method to output characters, the data output will be slower due to the larger amount of data being processed.

This function allows you to select from the following modes based on your actual application needs:

Mode 1: For ASCII characters between 0x20 and 0xFF that are not supported by the current scanning engine keyboard layout, use the Alt combination method for output.

Mode 2: For ASCII characters between 0x20 and 0xFF, use the Alt combination method for output.
Mode 3: For ASCII characters between 0x00 and 0xFF, use the Alt combination method for output.

Note: If **Mode 3** is enabled along with the control character escape function, control characters (0x00 to 0x1F) will be output using the Ctrl combination key.


* Disable ALT + Mode


Mode 1


Mode 2


Mode 3

2.2.5 Control Character Escape Output using Ctrl Combination Key

ASCII control characters with hexadecimal values between 0x00 and 0x1F can be configured to output as escape control key combinations, which can be used in applications that require control key combinations. The correspondence between ASCII values and function or control key combinations can be found in Appendix E: Control Character Escape Table.


*Disable


Enable

2.3 USB-CDC


USB-CDC

2.3.1 USB HID-POS

The USB HID-POS interface is recommended for use with new application software. Based on the HID interface, no driver installation is required..

HID-POS

Protocol Format

vid 0x26f1

pid 0x8803

Host Sending Data Format:

Byte	Content
0	Message ID 0x04
1	Valid Data Length
2-61	Data
62	0x00, 1 Byte reserved
63	0x00(no more data) 0x01(more data)

Scanner Device Sending Data to Host:

Byte	Content
0	Message ID 0x04
1	Valid Data Length
2-57	Data
58-62	0x00, 5 bytes revsered
63	0x00(no more data) 0x01(more data)

3. Scan Mode

3.1 Batch Mode

In batch processing mode, when the trigger control interface of the decoding module changes to the trigger level, the decoding module begins capturing and decoding. If the control interface remains at the trigger level (low level), the module will continue to read codes, but the same barcode can only be decoded once. Upon successful decoding, the decoding module will output the edited content through the communication interface. To initiate a new batch processing decoding, the host must first deactivate the trigger level and then reassert the trigger level.

Batch Mode

3.2 Level Mode

Trigger mode, when the trigger control interface of the reading module becomes the trigger level, the reading module starts to shoot and read; in the "single reading time" limit time range, if the trigger level has been maintained, will continue to shoot and read until successful. When the trigger level is canceled, or reading more than a single reading time limit, will stop shooting and reading. When the reading is successful, the reading module will output the coded content through the communication interface. To start a new trigger reading, the host needs to undo the trigger level, and then send out the trigger level.

Trigger Mode default

3.3 Level or Pulse Mode

In trigger mode, you can choose between using a level-hold condition or a pulse trigger condition. The level-hold condition means that the trigger signal must maintain its level from the start of scanning until the end of scanning. The pulse trigger condition means that the trigger signal is detected as a level pulse, starting the scanning process, which ends either when the scanning is successful or when the single scan duration limit is reached.

Level Mode(default)

Pulse Mode

3.4 Decode Session Timeout

Decode Session Timeout Duration Limit: In trigger mode, this refers to the maximum allowed time for capturing and scanning while the trigger signal is held in its active state. Once this duration limit is exceeded, the scanning action will stop regardless of whether the scan was successful. The single scan duration setting range is from 1000ms to 3600000ms, with the default duration being 3000ms. For instructions on customizing the single scan duration limit, refer to Appendix D.

3000ms default

5000ms

Modify Custom Decode Attempt Duration

3.5 Reread Timeout

To avoid repeatedly scanning the same barcode in a short period of time in trigger mode, the scanning module can be configured to allow reading the same barcode only after a set delay period.

Same Barcode Delay means that after reading a barcode, the same barcode will be ignored within the set delay period. It can only be scanned and output after the delay time has passed.

> **"No Delay for Same Barcode"**: The same barcode will be output immediately after being scanned.
> **"Require Same Barcode Delay"** with **"Disable Re-read Timeout Reset"**: The same barcode can only be read and output after exceeding the delay time limit.
> **"Require Same Barcode Delay"** with **"Enable Re-read Timeout Reset"**: The same barcode can only be read and output after exceeding the delay time limit and no identical barcode has been detected during that time.
> If the **Same Barcode Delay** is set to **"Unlimited"**, the same barcode will not be output.

No Delay for Same Barcode

(default)

Require Same Barcode Delay

Disable Re-read Timeout
Reset default

Enable Re-read Timeout Reset

By reading the following setting codes, you can quickly modify the limit value for the same barcode delay duration. The range for the same barcode delay setting is 0 to 65535ms, with the default duration being 1500ms. For custom modifications of the same barcode delay duration, refer to Appendix D for the setting method.

Infinite

1000ms

1500ms default

3000ms

5000ms

Modify Custom Same Barcode Delay Duration

3.6 Auto-Sensing Mode

Auto-Sensing Mode

3.7 Decode Session Timeout

This parameter sets the maximum time decode session continues during a scan attempt. It is programmable in 1ms increments from 1000ms to 3,600,000ms. When it is set to 0, the timeout is infinite. The default setting is 3,000ms.

3000ms default

5000ms

Set Custom Decode Session Timeout

3.8 Reread Timeout

Reread Timeout can avoid undesired rereading of same barcode in a given period of time. This feature is only applicable to the Sense and Continuous modes.

Disable Reread Time default

Enable Reread Timeout

Disable Reset reread delay default

Enable Reset reread delay

No Reread Timeout

1000ms

1500ms default

3000ms

5000ms

Set Custom Reread Timeout

3.9 Image Stabilization Timeout(Sense Mode)

This parameter defines the amount of time the enginer will spend adapting to ambient environment after it decodes a barcode and “looks” for another. It is programmable in 1ms increments from 0ms to 3,000ms. The default setting is 60ms

60ms default

500ms

1000ms

Set user-specified timeout

3.10 Sensitivity-Auto Sensing Mode

Normal

Low

High default

Extra High

3.11 Continuous Mode

Continuous Mode

3.12 Decode Session Timeout

In continuous mode, it is the maximum length of time that will continue to be collected and recognized before successful reading, and after the timeout, it will enter the interval period of not collecting and reading according to the setting. The setting range of single reading time is 1000~3600000ms, and the default time is 3000ms, refer to Appendix D for the setting method.

3000ms default

5000ms

自定义Modify 单次读码时长限定

3.13 Timeout Between Decodes

The read interval is the time between two reads. Regardless of successful or unsuccessful reading, there will be an interval of the set length between two readings, during which no reading will be captured. The setting range of the reading interval is 0~65535ms, and the default is 1000ms; refer to Appendix D for the customized setting.

500ms

1000ms default

2000ms

5000ms

0ms

Custom Timeout

3.14 Reread Timeout

Reread Timeout can avoid undesired rereading of same barcode in a given period of time. This feature is only applicable to the Sense and Continuous modes.

After scanning “**Enable Reread Timeout**” and “**Disable Reread Timeout Reset**”barcode, the scanner will only decode the same barcode after the timeout. After scanning **Enable Reread timeout** and **Enable Reread Timeout Reset** barcode, the scanner will only decode the same barcode for one time.

If the **No Reread** barcode is scanned, the scanner will not decode the same barcode

Disable Reread Timeout default

Enable Reread Timeout

Disable Reread Timeout
Reset default

Enable Reread Timeout Reset

The reread timeout can be set from 0 to 65535ms, The default value is 1500ms.

No Reread

1000ms

1500ms(default)

3000ms

5000ms

Set Custom Reread Delay Timeout

4 LED and Aimer

4.1 Illumination LED

Normal default

Always Off

Always On

4.2 Aimer

Normal default

Always Off

Always On

5 Beeper

5.1 Beeper

Mute

Beeper On(default)

5.2 Startup Beep

On default

Off

5.3 Good Read Beep

On default

Off

5.4 Beeper Type

Type 1

Type 2

Type 3 default

5.5 Beeper Volume

High default

Medium

Low

5.6 Setup Beep

On default

Off

5.7 Good Read LED Indicator

On default

Off

LED-Duration 100ms

LED-Duration 200ms default

LED-Duration 500ms

Set Custom LED Duration

5.8 Not Good Read NGR

Transmit NGR

Do not Transmit NGR default

Modify NGR
The NGR can be set from 0 to 7 characters according to ASCII Chart, character range is from 0 to 255.

Modify NGR

6 Data Format

After configuration, the scanner can output the decoded data as below format

[Code ID] + [Prefix] + [DATA] + [Suffix] + [Terminator]

[Prefix] + [Code ID] + [DATA] + [Suffix] + [Terminator]

6.1 Data Edit

Enable Data Edit

Disable Data Edit

6.2 Prefix and Code ID sequence

Code ID+ Prefix

Prefix+Code ID default

6.3 Custom Prefix

6.3.1 Custom Prefix

Enable Custom Prefix

Disable Custom Prefix default

6.3.2 Set Custom Prefix

Up to 16 ASCII characters may be added as a custom prefix, please reference the ASCII Chart in Appendix C for desired character.

Set Custom Prefix

Example Set custom prefix as “CODE”:

1. Reference the ASCII chart in Appendix 3 to find out the hex value assigned to the desired character. The corresponding hex number for the “CODE”4 is **43 4F 44 45**
2. Scan **Enter Setting** barcode
3. Scan **Set Custom Prefix** barcode
4. Scan “**4**”“**3**”“**4**”“**F**”“**4**”“**4**”“**4**”“**5**” barcodes from Digit barcodes.
5. Scan **Save** barcode

6.4 Code ID

6.4.1 Add Code ID

Enable Code ID

Disable Code ID default

Restore to default CODE ID

6.4.2 Modify Code ID

Example Modify PDF417 Code ID to ‘p’ :

1. Reference the ASCII chart in Appendix 3 to find out the hex value assigned to the desired character. The corresponding hex number for the “P” is 70.
2. Scan “Enter Setting” barcode
3. Scan “Modify PDF417 Code ID” barcode
4. Scan “7”, “0” digit barcodes
5. Scan “Save” barcode
6. Scan “Exit Setting” barcode.

Modify Code ID List

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

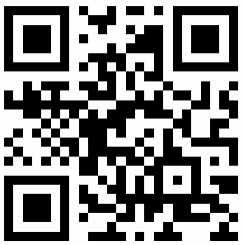
Modify IATA25 Code ID

Modify Code 39 Code ID

Modify Code 93 Code ID

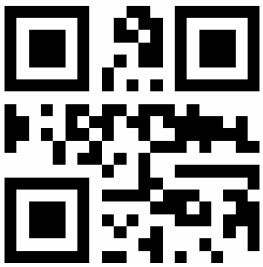
Modify Interleaved 2 of 5 Code ID

Modify Codabar Code ID

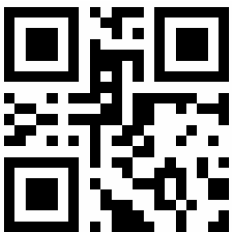


Modify Industrial 25 Code ID

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

6.5 Custom Suffix

6.5.1 Custom Suffix

Enable Custom Suffix

Disable Custom Suffix(default)

6.5.2 Set Custom Suffix

Up to 16 ASCII characters may be set up as a custom suffix. Please reference the ASCII chart in Appendix C to desired characters.

Set Custom Suffix

Example Set Custom Suffix to “CODE”:

1. Reference the ASCII chart in Appendix 3 to find out the hex value assigned to the desired character. The corresponding hex number for the “CODE” is **43 4F 44 45**
2. Scan **Enter Setting** barcode
3. Scan **Set Custom Custom** barcode
4. Scan “**4**”“**3**”“**4**”“**F**”“**4**”“**4**”“**4**”“**5**” barcodes from Digit barcodes.
5. Scan **Save** barcode

6.6 Terminator Suffix

6.6.1 Add Terminator Suffix

Add Terminator Suffix default

No Terminator Suffix

6.6.2 Modify Terminator Suffix

Set Terminator Suffix as 0x0D(default

Set Terminator Suffix as 0x0D 0x0A

Set Terminator Suffix

Example : Set Terminator Suffix to 0x0D :

1. Scan **Enter Setting** barcode
2. Scan **Set Terminator Suffix** barcode
3. Scan 读数据码“0”, “D”
4. 读“保存”；

6.7 Data Edit

6.7.1 Start/Center/End Data

Decoded Data is consists of three parts of data [Start][Center][End].

User can select desired data parts by scanning corresponding setting codes below.

Transmit the complete Data default

Only Transmit Start data

Only transmit End data

Only Transmit Center Data

6.7.2 Modify Length Range to Data

Modify Length Range to Start Data

Modify Length Range to End Data

Modify Start Segment Length is 0x02. Example:

The hexadecimal value 0x02 is represented by the data codes "0" and "2."

Read the "Enable Setting Code."

Read the "Modify Start Segment Length" setting code.

Read the data codes "0" and "2."

Read "Save."

6.8 Decode Format

To ensure the device prints various data types in the specified encoding format, you can set the "Output Data Encoding Format." Available formats include GBK, UTF-8, and UNICODE, with the default format being GBK.

GBK default

UTF8

UNICODE

Original Data

6.9 ECI Mode

Enable ECI default

Disable ECI

7 Symbologies

7.1 Global Setting

7.1.1 All Symbologies

Enable All Symbologies

Disable All Symbologies

7.1.2 All 1D Symbologies

Enable All 1D Symbologies

Disable All 1D Symbologies

7.1.3 All 2D Symbologies

Enable All 2D Symbologies

Disable All 2D Symbologies

7.2 Inverse Barcodes

7.2.1 All Inverse Barcodes

Enable

Disable default

7.2.2 1D Inverse Barcodes

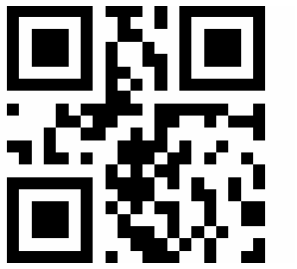
Enable

Disable default

7.2.3 2D Inverse Barcodes

Enable PDF417 Inverse

Disable Inverse PDF417 default



Enable Inverse DM

Disable Inverse DM(default)

Enable QR Inverse

Disable QR default

7.3 Code 128

7.3.1 Restore Default

Restore Code 128 default

7.3.2 Enable/Disable Code 128

Enable Code 128 default

Disable Code 128

7.3.3 Set Length Range

Set the Minimum Length as 00 default

Set the minimum length to 04

Set the Maximum Length to 32

Set the Maximum Length to 255 default

Set the Custom Minimum Length

Set the Custom Maximum Length

7.4 EAN-8

7.4.1 Restore to default

Restore to default

7.4.2Enable/Disable EAN-8

Enable EAN-8 default

Disable EAN-8

7.4.3Transmit Check Digit

EAN-8 barcode data is fixed to 8 characters, and the last character is check digit.

Transmit Check Digit default

Do not Transmit Check Digit

7.4.4 Add-On Code

*Disable 2 Add-On Code

Enable 2 Add-On Code

Disable 5 Add-On Code(default)

Enable 5 Add-On Code

7.5 EAN-13

7.5.1 Restore to default

Restore to default

7.5.2 Enable/Disable EAN-13

Enable EAN-13 default

DisableEAN-13

7.5.3Transmit Check Digit

Transmit Check Digit default

Do not Transmit Check Digit

7.5.4 Add-On Code

Disable2 Add-On Code default

Enable 2 Add-On Code

Disable 5Add-On Code default

Enable 5Add-On Code

7.5.5 Convert EAN13 to ISBN

Do not Convert EAN13 to ISBN default

Convert EAN13 to ISBN

7.5.6 Convert EAN13 to ISSN

Do not Convert EAN13 to ISSN default

Convert EAN13 to ISSN

7.6 UPCE0

7.6.1 Restore to factory default

Restore to factory default

7.6.2 Enable/Disable UPC-E0

Enable UPCE0 default

Disable UPCE0

7.6.3 Transmit Check Digit

Transmit Check Digit default

Do not Transmit Check Digit

7.6.4 System Character

Transmit System Character default

Do Not Transmit System Character

7.7 UPCE1

7.7.1 Restore to default

Restore to default

7.7.2 Enable/Disable UPCE1

EnableUPCE1 default

DisableUPCE1

7.7.3 Transmit Check Digit

Transmit Check Digit default

Do not Transmit Check Digit

7.7.4Transmit System Character

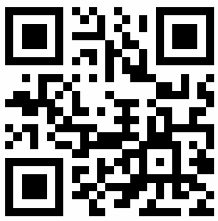
Transmit System Character default

Do not Transmit System Character

7.7.5 Add-On Code

Disable 2 Add-On Code default

Enable 2 Add-On Code



Disable 5 Add-On Code default

Enable 5 Add-On Code

7.8 UPCA

7.8.1 Restore to default

Restore to default

7.8.2 Enable/Disable UPCA

Enable UPCA(default)

Disable UPCA

7.8.3 Convert UPCA to EAN13

Disable default

Enable

7.8.4 Transmit Check Digit

Transmit Check Digit default

Do not Transmit Check Digit

7.8.5 Transmit System Character

Transmit System Character default

Do not Transmit System Character

7.8.6 Add-On Code

Disable2 Add-On Code default

Enable 2 Add-On Code

Disable 5 Add-On Code default

Enable 5 Add-On Code

7.9 Interleaved 2 of 5

7.9.1Restore to default

Restore to default

7.9.2Enable/DisableInterLeaved25

Enable InterLeaved 25 default

Disable InterLeaved25

7.9.3Set Length Range

Set the Minimum Length as
00 default

Set the minimum length to 04

Set the Maximum Length to 32

Set the Maximum Length to
255 default

Set the Custom Minimum Length

Set the Custom Maximum Length

7.9.4 Check Digit

Disable Check Digit default

USS Check Digit but Do not Transmit Check Digit

USS Check Digit and Transmit Check Digit

7.10 Matrix 2 of 5

7.10.1 Restore to default

Restore to default

7.10.2 Enable/Disable Matrix 25

Enable Matrix 25

Disable Matrix 25 default

7.10.3 Set Length Range

Set the Minimum Length as 00 default

Set the minimum length to 04

Set the Maximum Length to 32

Set the Maximum Length to 255 default

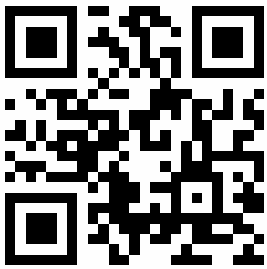
Set the Custom Minimum Length

Set the Custom Maximum Length

7.10.4 Check Digit

Disable Check Digit default

Enable but Do no Transmit Check Digit



Enable and Transmit Check Digit

7.11 Industrial 2 of 5

7.11.1 Restore to default

Restore to default

7.11.2 Enable/Disable Industrial 25

Enable Industrial 25

Disable Industrial 25 default

7.11.3Set Length Range

Set the Minimum Length as 00 default

Set the minimum length to 04

Set the Maximum Length to 32

Set the Maximum Length to 255 default

Set the Custom Minimum Length

Set the Custom Maximum Length

7.11.4 Check Digit

Disable Check Digit default

Enable but Do no Transmit Check Digit

Enable and Transmit Check Digit

7.12 IATA 2 of 5

7.12.1 Restore to default

Restore to default

7.12.2 Enable/DisableIATA 25

Enable IATA 25

Disable IATA 25 default

7.12.3Set Length Range

Set the Minimum Length as 00 default

Set the minimum length to 04

Set the Maximum Length to 32

Set the Maximum Length to 255 default

Set the Custom Minimum Length

Set the Custom Maximum Length

7.12.4 Check Digit

Disable Check Digit default

Enable but Do no Transmit Check Digit

Enable and Transmit Check Digit

7.13 Code 39

7.13.1 Restore to default

Restore to default

7.13.2 Enable/Disable Code 39

Enable Code 39 default

Disable Code 39

7.13.3 Transmit Start Character

Transmit Start Character

Do not Transmit Start Character default

7.13.4 Set Length Range

Set the Minimum Length as 00 default

Set the minimum length to 04

Set the Maximum Length to 32

Set the Maximum Length to 255 default

Set the Custom Minimum Length

Set the Custom Maximum Length

7.13.5Check Digit

Disable Check Digit default

Enable but Do no Transmit Check Digit

Enable and Transmit Check Digit

7.13.6 Disable/Enable Code32

Disable Code32 default)

Enable Code32

7.13.7 Full ASCII

Enable Full ASCII

Disable Full ASCII default

7.14 Codabar

7.14.1Restore to default

Restore to default

7.14.2 Enable/Disable Codabar

Enable Codabar default

Disable Codabar

7.14.3Set Length Range

Set the Minimum Length as 00 default

Set the minimum length to 04

Set the Maximum Length to 32

Set the Maximum Length to 255 default

Set the Custom Minimum Length

Set the Custom Maximum Length

7.14.4 Transmit Check Digit

Disable Check Digit default

MOD 10 / Enable and Transmit Check Digit

MOD 10 / Enable but Do no Transmit Check Digit

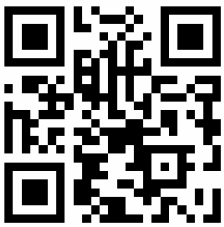
MOD 16 / Enable and Transmit Check Digit

MOD 16 / Enable but Do no Transmit Check Digit

7.14.5 Start/Stop Character

Do not Transmit Start/Stop Character

The start character of Codabar may be set to one of the “A”, “B”, “C”, “D”. Stop Character may be set to one of “T” “N” “*” “E”



ABCD/ABCD default

ABCD/TN*E

abcd/abcd

abcd/tn *e

7.15 Code 93

7.15.1Restore to default

Restore to default

7.15.2 Enable/Disable Code 93

Enable Code 93 default

Disable Code 93

7.15.3 Set Length Range

Set the Minimum Length as 00 default

Set the minimum length to 04

Set the Maximum Length to 32

Set the Maximum Length to 255 default

Set the Custom Minimum Length

Set the Custom Maximum Length

7.16 Code 11

7.16.1 Restore to default

Restore to default

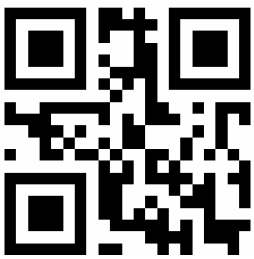
7.16.2 Enable/Disable Code 11

Enable Code 11

Disable Code11 default

7.16.3Set Length Range

Set the Minimum Length as 00 default



Set the minimum length to 04

Set the Maximum Length to 32

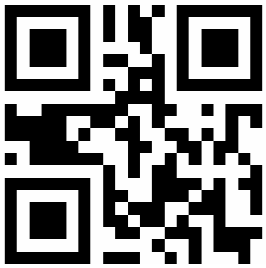
Set the Maximum Length to 255 default

Set the Custom Minimum Length

Set the Custom Maximum Length

7.17 MSI Plessey

7.17.1 Restore to default



Restore to default

7.17.2Enable/Disable MSI Plessey

EnableMSI Plessey

Disable MSI Plessey default

7.17.3Set Length Range

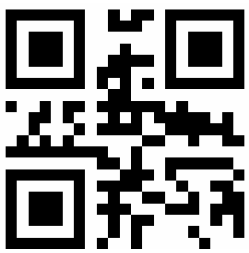
Set the Minimum Length as 00 default

Set the minimum length to 04

Set the Maximum Length to 32

Set the Maximum Length to 255 default

Set the Custom Minimum Length



Set the Custom Maximum Length

7.17.4 PDF 417

Enable PDF 417 default

Disable PDF 417

7.17.5 QR Code

Enable QR default

Disable QR

7.17.6 Micro QR

Enable Micro QR

Disable Micro QR default

7.17.7 Data Matrix

Enable Data Matrix default

Disable Data Matrix

8 Digit barcodes

8.1 Digit Barcodes 0~F

0

1

2

3

4

5

6

7

8

9

A

B

C

D

E

F

9 Save or Cancel

Save

取消前一次读的一位数据

取消前面读的一串数据

取消当前设置

10 Query Firmware Version

Query Firmware Version

Appendix A: Default Parameter

Description		default	Note
Setting Code			
Configuration Code		Enable	
Configuration Barcode Data		Don’t Transmit	
Communication Interface		USB-Keyboard	
TTL-232	Baud Rate	9600	
	Check Bit	Disable	
	Data Bit	8	
	Stop Bit	1	
	Hardware flow	No	
HID-KBW	HID-KBW Country Keyboard Layout	America-English	
	HID-KBW Transmission Speed	2ms	
	Polling Speed	1ms	
Working Mode Parameter			
Default-Scan Mode		Trigger Scan Mode	Selectable Modes: The device can be configured to operate in one of the following modes: Batch Mode: The device collects data and outputs it in batches rather than continuously. Trigger Mode:

			Scanning is initiated by a trigger signal, requiring the user to activate the scan manually. Auto-Sense Mode: The device automatically detects the presence of a barcode and begins scanning without manual intervention. Continuous Mode: The device continuously scans for barcodes, automatically outputting data as it detects barcodes.
Trigger Mode	Single Scan Duration	3000ms	Setting Range 1000~3600000ms
	Trigger Condition	Level	
	Same Barcode Delay	No Delay	
	Re-read Timeout Reset	No Reset	
	Same Barcode Delay Duration	1500ms	
Auto-Sense Mode	Single Scan Duration	3000ms	Setting Rnage 1000~3600000ms
	Stable Image	60ms	Setting

	Duration		Rnage 0~1600ms
	Same Barcode Delay	No Delay	
	Re-read Timeout Reset	No Reset	
	Same Barcode Delay Duration	1500ms	Setting Range 0~65535ms
	Scene Change Threshold	10	Setting Range 1~50
Continuous Mode	Single Scan Duration	3000ms	Setting Range 1000~3600000ms
	Decode Interval Duration	1000ms	Setting Range 0~65535ms
	Same Barcode Delay	No Delay	
	Re-read Timeout Reset	No Reset	
	Same Barcode Delay时长	1500ms	Setting Range 0~65535ms
Illumination And Aiming			
Illumination Mode		Normal	
Aiming Mode		Normal	
Beeper Transmit			
Startup Beep		Transmit	
Parameter		default	Notice
Good Read Beep	Beep	Enable	
	Beep Type	Type 3	
	Volume	High	
Setting Beep		Enable	
Good Read LED		On	
NGR	Transmit or not	Don’t transmit	

	Content	Null	
Data Edit			
Prefix and Code ID order sequence		Prefix + CODE ID	
Custom Prefix enable or not		Disable	
Custom Prefix Content		None	
Code ID		None	
Customs Suffix		Disable	
Customs Suffix Content		None	
Terminator Suffix		Enable	
Terminator Type		0x0D	
Data Segment Truncation		Transmit Entire Data Segment	
Modify Data Segment Length		0	Setting Range 0~255
Output Encoding Type		GBK	GBK, UTF8, UNICODE, Original Data
ECI Mode		Support	
Symbologies			
Code128			
Decode		Enable	
Maximum Length		255	
Minimum Length		0	
EAN-8			
Decode		Enable	
Transmit Check Digit		Transmit	
2 Digit Add-On Code		Disable	
5 Digit Add-On Code		Disable	
EAN-13			
Decode		Enable	
Transmit Check Digit		Transmit	
2 Digit Add-On Code		Disable	

5 Digit Add-On Code	Disable	
Convert EAN13 to ISBN	Disable	
Convert EAN13 to ISSN	Disable	
Parameter	Default	Notice
UPC-E0		
Decode	Enable	
Transmit Check Digit	Transmit	
Transmit System Character	Transmit	
UPC-E1		
Decode	Enable	
Transmit Check Digit	Transmit	
Transmit System Character	Transmit	
2 Digit Add-On Code	Disable	
5 Digit Add-On Code	Disable	
UPCA		
Decode	Enable	
Convert UPCA to EAN13	Disable	
Transmit Check Digit	Transmit	
2 Digit Add-On Code	Disable	
5 Digit Add-On Code	Disable	
Transmit System Character	Transmit	
Interleaved 2 of 5		
Decode	Enable	
Check Digit	Disable Check Digit	
Transmit Check Digit	Do not Transmit	
Maximum Length	255	
Minimum Length	0	
Matrix 2 of 5		
Decode	Disable	
Check Digit	Disable Check	

	Digit	
Transmit Check Digit	Do not Transmit	
Maximum Length	255	
Minimum Length	0	
Industrial 2 of 5		
Decode	Disable	
Check Digit	Disable Check Digit	
Transmit Check Digit Characters	Do not Transmit	
Maximum Length	255	
Minimum Length	0	
IATA25		
Decode	Disable	
Check Digit	Disable Check Digit	
Transmit Check Digit	Do not Transmit	
Maximum Length	255	
Name	Default	Notice
Minimum Length	0	
Code 39		
Decode	Enable	
Check Digit	Disable Check Digit	
Transmit Check Digit	Do not transmit	
Transmit Start/Stop Character	Do not transmit	
Full ASCII	Not support	
Converted to Code 32	Do not Convert	
Maximum Length	255	
Minimum Length	0	
Codabar		
Decode	Enable	

Check Digit	Disable Check Digit	
Check Digit Characters	Do not Transmit	
Start/Stop Character	Do not Transmit	
Start/Stop Characters	ABCD/ABCD	
Maximum Length	255	
Minimum Length	0	
Code 93		
Decode	Enable	
Maximum Length	255	
Minimum Length	0	
Code11		
Decode	Disable	
Maximum Length	255	
Minimum Length	0	
MSI Plessey		
Decode	Disable	
Maximum Length	255	
Minimum Length	0	
PDF417		
Decode	Enable	
QR		
Decode	Enable	
Micro QR		
Decode	Disable	
Data Matrix		
Decode	Enable	
Inverse Color Data Matrix	Disable	

Appendix B: Code ID

Barcode 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

Appendix C ASCII Chart

hex	dec	char
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)
hex	dec	char
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
hex	dec	char
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
hex	dec	char
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)

Guangzhou Yoko Electron Co.,Ltd

Address: Room301, No.7 huanbaosan Rd, xintang town, zengcheng district, guangzhou, 511300 China
Tel 0086 13822250295
Email ken@yokoscan
Web http://www.chinayoko.com/