

USER GUIDE

About This User Guide

Pls read all the content of the user guide carefully to use the products safely and effectively. You are advised of keeping it properly for your using reference.

Disclaimer

Please do not dismantle the product or tear up the seal on it, otherwise we won't provide warranty or replacement service.

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For technical assistant or product service and repair, please contact us.

Version Record

Version number	Version description	Version date
SV1.1_HV1.2_190330_201903 30d024-190330	Initial version	2019-4-15
SV1.1_HV1.2_190330_d025	The gs128 menu has been modified. It is invalid by default	2019-4-16
SV1.1_HV1.2_190330_d027	<ol style="list-style-type: none"> 1. Modified the C error of 39full conversion tail; 2. The 39full conversion is not correct; 3. Change the setting of switching to USB keyboard mode, save the parameters before setting; 4. Modify the sound prompt error of USB serial port setting success; 5. Modified compatible XP system; 6. Modify the problem that the key is pressed until the decoding is successful or the key is released to turn off the light; 7. Add USB network mode, communicate with upper computer through USB network mode; 	2019-4-17
SV1.3_HV1.2_190330_d027	<ol style="list-style-type: none"> 1. The lighting effect is modified to improve the decoding effect; 2. The communication between USB network and host computer is modified except win10 system; 	2019-4-19
SV1.4_HV1.2_190330_d027	<ol style="list-style-type: none"> 1. Add the function of modifying IP address, which can be set by upper computer or scanning mode 2. When set to USB network mode, the default IP 	2019-4-30

	address is 32.45.78.1	
SV1.5_HV1.2_190330_d027	<ol style="list-style-type: none"> 1. The default frequency of sound is changed to 2.7K 2. The shipping version of hs-26 	2019-5-6
SV1.6_ZS_HV1.2_2K7_190330_d031	<ol style="list-style-type: none"> 1. Greatly improve decoding performance 2. Early exit decoding function is set 3. Modified the problem of missing callback function 4. Code128 can solve hidden character, which is related to menu; 	2019-5-23
SV1.7_ZS_HV1.2_2K7_190330_d031	<ol style="list-style-type: none"> 1. The default value of output code length is changed to 4-50 2. Change the maximum sound to 2.7K 	2019-5-23
SV1.7_ZS_HV1.2_2.048K_190330_d031	Change the maximum sound to 2.048k	2019-5-23
SV1.8_ZS_HV1.2_2.048K_QZ_190330_d033	<ol style="list-style-type: none"> 1. Add hardware watchdog 2. Change the maximum sound to 2.048k 3. Solve the problem of noise during startup 4. Because of RTC failure, the callback function adopts counting method 5. Speed up anti white code 6. Modify hid sending speed 	2019-5-30
SV1.8_ZS_HV1.2_2.048K_MZ_190330_d033	<ol style="list-style-type: none"> 1. Add hardware watchdog 2. Change the maximum sound to 2.048k 3. Solve the problem of noise during startup 	2019-5-31

	<p>4. Because of RTC failure, the callback function adopts counting method</p> <p>5. Speed up anti white code</p> <p>6. Modify hid sending speed</p> <p>7. Serial output, no terminator, initialized to self sensing mode</p>	
SV1.9_ZS_HV1.2_2K7_QZ_190330_d033	<p>1. Initialize turn on anti white code</p> <p>2. Can switch to self sensing mode</p>	2019-6-1
SV1.9_ZS_HV1.2_2.048K_QZ_190330_d033	<p>1. Initialize turn on anti white code</p> <p>2. Can switch to self sensing mode</p>	2019-6-1
SV2.0_ZS_HV1.2_2.048K_MZ_190330_d033	Add aging test mode	2019-6-5
SV2.0_ZS_HV1.2_2K048_QZ_190605_d037	<p>1. Pdf optimization</p> <p>2, DM optimization</p> <p>3. QR high density optimization</p> <p>4. QR code crash</p> <p>5. The problem of PDF missing angle decoding</p>	2019-6-10
SV3.4_ZS_HV1.0_PTY_P9_H_T_OLD_20200317.250718	<p>1.UPC-A to EAN-13.</p> <p>2.EAN-13 to ISSN</p> <p>3.UPC-A/EAN/JAN extra-code</p>	2020-3-24
SV3.5_ZS_HV1.0_PTY_P14_H_T_OLD_20200422_4.7.200416.250718		2020-4-23

<p>SV3.7_ZS_HV1.0_PTY_P16_H T_OLD_20200511_4.7.200416. 250718</p>	<ol style="list-style-type: none"> 1. Solve suffix cannot be added 2. Solve the problem that data lost when UPC-A to EAN-13 3. Solve the problem that EAN13 to ISSN doesn't work 4. Add getting CPUID barcode function (for internal use only) 5. Before MP6300Y (2.7khz buzzer) 2019.11.11 version are all old camera 	<p>2020-5-13</p>
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1.Product Introduction

This user guide applies to MP6300Y, which identify 1D&2D barcodes by 2D image scanning pattern. The scanners above are of strong identification capability, and support automatic continuous scanning mode with fast and flexible scanning speed.

In this chapter, we will introduce the instruction of scanner with pictures, please compare to the scanner you bought when reading this user guide, which is good for your understanding. This chapter applies to regular users, maintenance personnel, and software developers.

1.1 Main feature

- * Complete independent research and development, possessing the complete set of patent, plug and play without the need to install driver.

- * Wide voltage design to avoid the data can't be transmitted due to voltage fluctuation.

- * 32-bit master chip equipped with patented software, the scanner can smoothly decode reflective,

wrinkled, blurred, and colorful barcode, and can also normally scan in light and dark environment.

* Adopt all tantalum capacitors and anti-oxidation optical technology, avoiding the problem of performance declining after long-term using.

1.2 Open package

Open the package and take out the products and accessories. Check whether all items are complete and whether there are damaged parts according to the packing list. If there are any damaged or missing parts, please keep the original packaging and contact your supplier for after-sales service.

1.3 Communication port

The scanner must be connected to a host to operate. Host can be a PC, POS machine, intelligent terminal with USB or RS-232 interface.

USB

USB interface on host



RS-232

RS-232 interface on host



1.4 Start-up, shutdown, standby and restart

Start-up: Connect host computer with scanner, which will automatically start-up and in working state.

Shutdown: Remove the data cable which is connected with scanner; remove the USB which is connected with host computer; remove the power adapter which is inserted into RS-232 serial port.

Standby: Scanner with automatic sleep standby function, if 30 minutes without work it will be in standby mode, but it will automatically start-up when barcode approach.

Restart: If the scanner crashes or doesn't respond, please switch it off and restart.

1.5 Maintenance

* The window must be kept clean, the supplier do not bear the guarantee responsibility due to the

improper maintenance.

* Avoid the window being wear and tear or scratched by hard object

* Use the hairbrush to remove the stain on the window

* Clean the window with a soft cloth, such as lens cleaning cloth

* Spraying liquid onto the window is prohibited.

* Prohibit any cleaning solvents, except for the cleaning water.

1.6 Reading skills

If the barcode is small, it should be closer to the scanning window; if the barcode is large, it should be far away from the scanning window a little more, thus easier to be read correctly.

If the barcode is highly reflective (for example, the coated surface), you may need to tilt the barcode at an angle to successfully scan it.

Barcode scanning example:



2.Barcode Menu

This model of laser desktop barcode scanner is designed to change settings by reading some special barcode, which we will give you a detailed introduction and show you all the barcodes for the corresponding setting in this section.

The greatest advantage of this setting method is direct, intelligible and user friendly.

2.1 Mark Setting

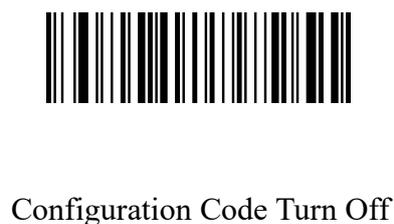
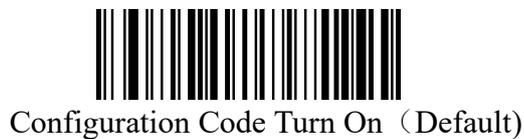


2.2 Setting barcodes

2.2.1 Turn on/Turn off configuration code

When the configuration code is turn on, All configuration codes available;

When the configuration code is turn off, you need setting it.



2.2.2 Restore Factory Defaults



Restore Factory Defaults

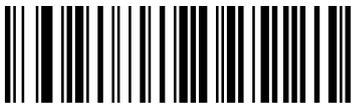
2.2.3 Read product batch version



Product Batch Version

2.2.4 Time-out setting

Select time-out interval



No Time-Out(Default)



3s



5s



10s

2.2.5 Read user defaults

Save the current menu settings as user-defined menu settings.



Save User Defaults

You can restore the menu settings for the user-defined menu settings.



Restore User Defaults

2.2.6 Interface Setting

This desktop scanner support USBKB、USB to serial port、serial port interface.

You can set USB PC KB、USB MAC KB interface by scanning below barcode.



USB KB (Default)



USB MAC KB (Not enable)



Host mode (command decoding +
physical serial port)

You can set serial port interface by scanning below barcode.



Serial port

You can set USB to serial port interface by scanning below barcode. (Need
drive, please contact the sales)



USB to Serial Port (Not enable)



USB Upgrade

2.2.7 Serial port setting

2.2.7.1 Baud rate setting



Baud rate 4800



Baud rate 9600 (Default)



Baud rate 38400



Baud rate 19200



Baud rate 57600



Baud rate 115200

2.2.7.2 Serial port data bits, stop bits, check bit setting



7 data bits, 1 stop bit, no check bit



7 data bits, 1 stop bit, even-
parity check



7 data bits, 1 stop bit, odd-
parity check



7 data bits, 2 stop bits, no



7 data bits, 2 stop bits, even-
parity check



7 data bits, 2 stop bits,
odd-parity check



8 data bits, 1 stop bit, no
check bit



8 data bits, 1 stop bit, even-
parity check



8 data bits, 1 stop bit, odd-
parity check



8 data bits, 2 stop bits, no
check bit



8 data bits, 2 stop bit,
even-parity check



8 data bits, 2 stop bits, odd-parity check

2.2.8 LED control



Normal Mode (Default)



Always Off



Always On

2.2.9 Character escape



Enable character escape



Disable Character Escape (Default)

2.2.10 GS Control Character escape (Control Character Escape Function need to be enable) (Not enable)



No ReplacemEnt (Not Enable)

Note: Output character“Ç”, must scan "Enable virtual keyboard "

Open (Mode 1)"or (Mode 2) or (Mode 3) first



Replace With Ç (Not enable)



Replace with | (Not enable)



Replace with ^] (Not enable)



Replace with] (Not enable)



Replace with <GS> (Not enable)

2.2.11 Prefix setting



No prefix (Default)



<STX><data>

2.2.12 Suffix setting



No Suffix



<Data><CR>



<Data><LF>



<Data><CR><LF> (Default)



<Data><TAB>



<Data>< ETX>

2.2.13 Unicode Output Mode



Latin-1 (Default)



GBK (INotepad/excel)



UNICODE (Word)

2.2.14 Inverse code option

(Only 1D/Data Matrix/Aztec)



Only Decode Normal Code (Default)



Only Decode Inverse Code (Not Enable)



Decode Both Normal Code And Inverse Code

2.2.17 Virtual keyboard

Mode 1: The characters between 0x20 and 0xFF are output in the virtual keyboard mode that is not supported by the current keyboard layout. The characters between 0x00 and 0x1F are defined according to the control characters.

Mode 2: All characters between 0x20 and 0xFF are output under the virtual keyboard mode, and characters between 0x00 and 0x1F are defined according to the control characters.

Mode 3: The characters used between 0x00 and 0xFF are output under the virtual keyboard mode.



Disable Virtual Keyboard (Default)



Enable Virtual Keyboard (Mode 1)



Enable Virtual Keyboard (Mode 2)



Enable Virtual Keyboard (Mode 3)

2.3 Beeper and LED notifications

2.3.1 Beeper Volume setting



Volume Low



Volume High (Default)

2.3.2 Startup beep



Shut Down Startup Beep



Open Startup Beep

(Default)

2.3.3 Good read beep



Good Read Beep On



Good Read Beep Off (Default)

t)

2.3.4 Beep pitch-good read



Low Pitch (Default)



Middle Pitch



High Pitch

2.3.5 Beep duration-good read



Tone Long (Default)

t)



Tone Pip

2.3.6 Error sound

You will hear 4 continue alarm sounds when data upload failure, one single alarm sound means scan indistinguishableness barcode.



Error Sound Low Pitch (Default)



Error Sound Middle Pitch



Error Sound High Pitch

2.3.7 Good-read LED



Good-Read LED Off



Good-Read LED On (Default)

2.4 Timeout between decodes (Same barcodes)(works in Auto scan mode)

2.4.1 Timeout between decodes (Same barcodes)

To avoid being repeatedly with a barcode, you can set the scan interval.



200ms



500ms (Default)



750ms



1s

2.4.2 Reading time

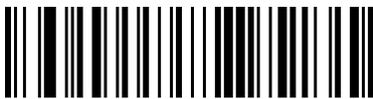


Single Reading Time

In the inductive reading mode, this parameter refers to the maximum time that the reading engine is allowed to continuously collect and recognize before reading is successful. After the successful reading or the timeout of a single reading, the reading engine will enter the interval of not collecting and reading. The setting range of single code reading time is 0.1-25 seconds, and the step length is 0.1 seconds. Indicates that the reading time is infinite. The default duration is 3.0 seconds.

2.5 USB keyboard setting

There barcode is used to set the update speed when scanner is in USB keyboard pattern. If the performance of your PC is lower, we suggest you choose slow update speed to make sure the scanner update the right data.



Slow Update Speed



Middle Update Speed



Fast Update Speed (Default)



User-Defined Update Speed (2ms~50ms)

2.6 Line feed setting (USB keyboard)



Only 0A(Line Feed)Works



Only 0D(Carriage Return)Works

(Default)



Both 0A(LR) And 0D(CR) Works

2.7 USB keyboard text-transform



Normal Output (Default)



Case Reversal

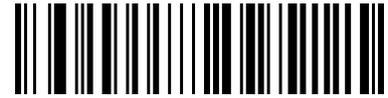


All Caps



Lower Case

2.8 Keyboard layout setting



English (United States)



French (France)



Italian (Italy)



Italian 142 (Italy) (Not enable)



German (Germany)



Spanish (Spain)



Spanish (Latin America) (Not enable)



Finnish (Not enable)



Japanese (Not enable)



Russian (MS) (Not enable)



Russian (typewriter) (Not enable)



Arabic (101) (Not enable)



Irish (Not enable)



Polish (214) (Not enable)



Polish (Programmers) (Not enable)



Dutch (Netherlands) (Not enable)



Czech (QWERTZ) (Not enable)



Portuguese (Portugal)



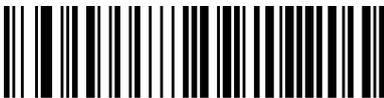
Portuguese (Brazil)



Swedish (Sweden) (Not enable)



Turkish Q



Turkish F (Not enable)



Greek (MS) (Not enable)



French (Belgium)



English (UK) (Not enable)

2.9 Barcode data hiding settings



Original Barcode Data



Transfer Start Field Only



Transfer Only Intermediate Fields



Transfer Only End Fields



Start And End Fields Only



Set Start Field Length



Set End Field Length

2.10 Symbologies

2.10.1 Enable/disable all Symbologies

Enable all barcode might slow down scanner decode speed. We suggest enable the barcode you need based on your scene. Enable all barcode is default



Enable All Symbologies (Default)



Disable All Symbologies

2.10.2 Enable/disable all 1D Symbologies



Enable All 1D Symbologies



Disable All 1D Symbologies

2.10.3 Enable/disable all 2D Symbologies



Enable All 2D Symbologies



Disable all 2D Symbologies

2.10.4 Codabar



Enable Codabar



Disable Codabar

2.10.5 Codabar start/ending character setting



Don't Send Codabar Start/ending Character (Default)



Send Codabar Start/Ending Character

2.10.6 Codabar limitation of length



Codabar Min Length (1~127bit)



Codabar Max Length (1~127bit)

2.10.7 Code 39



Enable Code 39



Disable Code 39

2.10.8 Code 39 check bit



Disable Code 39 Check Bit (Default)



Enable Code 39 Check Don't Send Check Bit



Enable Code 39 Check Send Check Bit

2.10.9 Code 39 Full ASCII



Enable Full ASCII



Disable Full ASCII (Default)

2.10.10 Code 39 limitation of length



Code 39 Max Length (1~127bit)



Code 39 Min Length (1~127bit)

2.10.11 Code 32 (Code 39 needs to be enabled) (Not Enabled)



Enable Code 32



Disable Code 32

2.10.12 Interleaved 2 of 5 (ITF5)



Enable ITF25



Disable ITF25

2.10.13 Interleaved 2 of 5 (ITF5) check bit



Disable ITF25 Check (Default)



Enable ITF25 Check Don't Send Check Bit



Enable ITF25 Check Send Check Bit

2.10.14 Interleaved 2 of 5 (ITF5) length setting



ITF25 No Fixed Length (4-128bit) (Default)



ITF25 6 Bit Length



ITF25 8 Bit Length



ITF25 10 Bit Length



ITF25 12 Bit Length



ITF25 14 Bit Length



ITF25 16 bit Length



ITF25 18 bit Length



ITF25 20 bit Length



ITF25 22 bit Length



ITF25 24 bit length

2.10.15 Interleaved 2 of 5 Limitation of length



Interleaved 2 of 5 min limitation length (4~128 bit)



Interleaved 2 of 5 max limitation length (4~128bit)

2.10.16 Industrial 2 of 5 (Industrial 25code) (4-24bit)



Enable Industrial 2 of 5



Disable Industrial 2 of 5

2.10.17 Industrial 2 of 5 Limitation of length



Industrial 2 of 5 min length (4~128bit)



Industrial 2 of 5 max length (4~128bit)

2.10.18 Matrix 2 of 5 (matrix 25 code) (4-24 bit)



Enable Matrix 2 of 5



Disable Matrix 2 of 5

2.10.19 Matrix 2 of 5 Limitation of length



Matrix 2 of 5 min length (4~128 bit)



Matrix 2 of 5 max length (4~128bit)

2.10.20 Standard 25 (Not enable)



Enable Standard 25 (default)



Disable Standard 25

2.10.21 Standard 25 Limitation of length



Standard 25 min length (4~128 bit)



Standard 25max length

(4~128 bit)

2.10.22 Standard 25 check bit setting



Standard 25 don't check (Default)



Standard 25 Check, Not Output



Standard 25 Check And Output

2.10.23 Code 93



Enable Code 93



Disable Code 93

2.10.24 Code 93 Limitation of length



Code 93 min length (1~127 bit)



Code 93 max length (1~127 bit)

2.10.25 Code 11 (Not Enabled)



Enable Code 11



Disable Code 11 (Default)

2.10.26 Code 11 check bit output (Not Enabled)



Enable Code 11 Check Bit Output



Disable Code 11 Check Bit Output

2.10.27 Code 11 check bit option (Not Enabled)



Disable Code 11 Check Bit (Default)



Code 11 One Check Bit



Code 11 Two Check Bit

2.10.28 Code 11 Limitation of length (Not Enabled)



Code 11 min length (1~127 bit)



Code 11 max length (1~127bit)

2.10.29 Code 128



Enable Code 128



Disable Code 128

2.10.30 Code 128 Limitation of length



Code 128 min length (1~127 bit)



Code 128 max length (1~127 bit)

2.10.31 GS1-128(requires CODE 128 to be enable)



Enable GS1-128



G

Disable GS1-128

2.10.32 ISBT-128 (Not enable)



Disable ISBT 128 (Not enable)



Enable ISBT 128 (Not enable)

2.10.33 Plessey (Not enable)



Enable Plessey (default)



Disable Plessey

2.10.34 Plessey Limitation of length (Not enable)



Plessey Min Length (1~127 bit)



Plessey Max Length (1~127 bit)

2.10.35 Plessey check bit optional (Not enable)



Plessey Don't Check



Plessey Check Anf Send Check Bit



Plessey Check Don't Send Check Bit (Default)

2.10.36 MSI plessey (Not enable)



Enable MSI Plessey (Default)



Disable MSI Plessey

2.10.37 MSI plessey Limitation of length (Not enable)



MSI Plessey Min Length (1~127 bit)



MSI Plessey Max Length (1~127 bit)

2.10.38 MSI plessey check bit output (Not enable)



MSI Plessey Check Bit Output

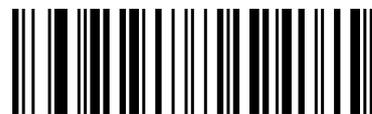


MSI Plessey Check Bit Don't Output (Default)

2.10.39 MSI plessey Check mode selection setting



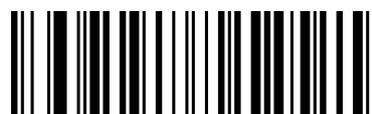
MSI Plessey Don't Check



MSI Plessey One Check Bit MOD10 (Default)



MSI Plessey Two Check Bit MOD10/MOD10



MSI Plessey Two Check Bit MOD10/MOD11

2.10.40 UPC-A



Enable UPC-A



Disable UPC-A

2.10.41 UPC-A check bit



Send UPC-A Check Bit (Default)



Don't Send UPC-A Check Bit

2.10.42 UPC-A to EAN-13 (Not enable)



Enable UPC-A to EAN-13



2.10.43 UPC-E



Enable UPC-E



Disable UPC-E

2.10.44 UPC-E check bit



Send UPC-E Check Bit (Default)



Don't Send UPC-E Check Bit

2.10.45 UPC-E expand UPC-A



Enable UPC-E Expand UPC-A



Disable UPC-E Expand UPC-A (Default)

2.10.46 EAN/JAN-8



Enable EAN/JAN-8



Disable EAN/JAN-8

2.10.47 EAN/JAN-13



Enable EAN/JAN-13



Disable EAN/JAN-13

2.10.48 UPC/EAN/JAN extra-code (Not enable)



Ignore UPC/EAN/JAN Extra-Code (Default)



Decode UPC/EAN/JAN Extra-Code



Adapt UPC/EAN/JAN Extra-Code

2.10.49 EAN13 to ISBN



Enable EAN13 To ISBN



Disable EAN13 To ISBN (Default)

2.10.50 EAN13 to ISSN (Not enable)



Enable EAN13 To ISSN



Disable EAN13 To ISSN(Default)

2.10.51 GS1 DataBar (RSS14) (Stacked)



Enable GS1 DataBar



Disable GS1 DataBar

2.10.52 GS1 DataBar (RSS14) (Stacked) AI (01) character send (Not enable)



Send AI (01) Character (Default)



Don't Send AI (01)

Character

2.10.53 GS1 DataBar Limited



Enable GS1 DataBar Limited



Disable GS1 DataBar Limited

2.10.54 GS1 DataBar Limited AI (01) character send (Not enable)



Send AI (01) Character (Default)



Don't Send AI (01) Character

2.10.55 GS1 DataBar Expanded



Enable GS1 DataBar Expanded



Disable GS1 DataBar Expanded

2.10.56 PDF417



Enable PDF417



Disable PDF417

2.10.57 Micro PDF417



Enable Micro PDF417



Disable Micro PDF417

2.10.58 QR Code



Enable QR



Disable QR



Disable QR Code URL Link (Default)



Enable QR Code URL Link

2.10.59 Micro QR



Enable Micro QR



Disable Micro QR

2.10.60 Data Matrix



Enable Data Matrix



Disable Data Matrix

2.11 User-defined prefix setting

Output



Enable User-Defined Prefix Output



Disable User-Defined Prefix Output (Default)

Edit



Clear All User-Defined Prefix



User-Defined Prefix

(Please follow the barcode type ID table and data and edit barcode in the appendix after scanning)

2.12 User-defined suffix setting

Output options



Disable User-Defined Suffix Output



Disable User-Defined Suffix Output (Default)

Edit



Clear All User-Defined Suffixes



User-Defined Suffix

(Please follow the barcode type ID table and data and edit barcode in the appendix after scanning)

2.13 Barcode prefix&suffix order selection

Prefix



<Prefix><CODE ID><AIM ID><User-Defined Prefix>(Default)



<Prefix><User-Defined Prefix><CODE ID><AIM ID>

Suffix



<User-Defined Suffix><CODE ID><AIM ID><Suffix> (Default)



<CODE ID><AIM ID><User-Defined Suffix><Suffix>

2.14 Code ID setting

Output options



Disable CODE ID (Default)



Enable CODE ID Former Barcode



Disable CODE ID Letter Barcode

Edit



User-Defined CODE ID

(Please follow the barcode type ID table and data and edit barcode in the appendix after scanning)



Clear All User-Defined CODE ID

2.15 AIM ID setting



Disable Barcode AIM ID (Default)



Enable Former Barcode AIM ID



Appendix

Appendix 1 Data and edit barcode



0



1



2



3



4



5



6



7



8



9



A



B



C



D



E



F



Cancel a string of data read before



Cancel current setting



Cancel a string of data read before



Save

Appendix 2 Barcode type ID table

Barcode type	HEX	CODE ID(default)
All code system	99	
Codabar	61	a
Code128	6A	j

ISBT-128	6A	j
Code32	3C	<
Code93	69	i
Code39	62	b
Code11	48	h
Plessey	70	(Not enable)
MSI plessey	6D	(Not enable)
EAN-13	64	d
EAN-8	64	D
GS1 DataBar (RSS14) (Stacked)	52	y
GS1 DataBar Limited	52	{
GS1 DataBar Expanded	52	}
GS1-128 (EAN-128)	6A	l
2 of 5		
Interleaved 2 of 5	65	e
Matrix 2 of 5	76	m

Industry 2 of 5	44	f
Standard 25	73	(Not enable)
UPC-A	63	c
UPC-E	63	E
ISBN	42	d
ISSN	6E	(Not enable)
DataMatrix	75	w
PDF417	72	r
Micro PDF417	53	R
QR Code	51	S
Micro QR Code	51	S

Barcode type	AIM ID	Description
All code system		
Codabar	]Fm	m: 0~1
Code128	]C0	m: 0, 1, 2, 4
ISBT-128	]C4	]CD
Code32	]A0	]XD
Code93	]G0	
Code39	]Am	m: 0, 1, 3, 4, 5, 7
Code11	]Hm	m: 0, 1, 3, 8, 9
Plessey	]P0	(Not enable)
MSI plessey	]Mm	(Not enable)
EAN-13	]Em	m: 0, 1, 3, 4
EAN-8	]Em	m: 0, 1, 3, 4
GS1 DataBar(RSS14) (Stacked)	]e0	
GS1 DataBar Limited	]em	]eD
GS1 DataBar Expanded	]em	]e0
GS1-128 (EAN-128)	]C1	

2 of 5		
Interleaved 2 of 5	]Im	m: 0, 1, 3
Matrix 2 of 5	]X0	
Industry 2 of 5	]S0	
Standard 25	]Rm	(Not enable)
UPC-A	]Em	m: 0, 3
UPC-E	]Em	m: 0, 3
ISBN	]X0	]ED
ISSN	]X0	(Not enable)
DataMatrix	]dm	m: 0~6
PDF417	]Lm	m: 0~5
Micro PDF417	]Lm	m: 0~5
QR Code	]Qm	m: 0~6
Micro QR Code	]Qm	m: 0~6

Appendix 3 Invisible character ASCII table

10 hex	Hex	Corresponding character
0	00	NUL
1	01	SOH
2	02	STX
3	03	ETX
4	04	EOT
5	05	ENQ
6	06	ACK
7	07	BEL
8	08	BS
9	09	HT
10	0A	LF
11	0B	VT
12	0C	FF
13	0D	CR
14	0E	SO
15	0F	SI
16	10	DLE
17	11	DC1

18	12	DC2
19	13	DC3
20	14	DC4
21	15	NAK
22	16	SYN
23	17	ETB
24	18	CAN
25	19	EM
26	1A	SUB
27	1B	ESC
28	1C	FS
29	1D	GS
30	1E	RS
31	1F	US

Appendix 4 Visible character ASCII table

<i>10 hex</i>	<i>Hexadecima l</i>	<i>Character</i>	<i>10 hex</i>	<i>Hexadeci mal</i>	<i>Charac ter</i>	<i>10 hex</i>	<i>Hexadecima l</i>	<i>Charact er</i>
32	20	<SPACE>	64	40	@	96	60	`
33	21	!	65	41	A	97	61	a
34	22	“	66	42	B	98	62	b
35	23	#	67	43	C	99	63	c
36	24	\$	68	44	D	100	64	d
37	25	%	69	45	E	101	65	e
38	26	&	70	46	F	102	66	f
39	27	‘	71	47	G	103	67	g
40	28	(	72	48	H	104	68	h
41	29	)	73	49	I	105	69	i
42	2A	*	74	4A	J	106	6A	j
43	2B	+	75	4B	K	107	6B	k
44	2C	,	76	4C	L	108	6C	l
45	2D	-	77	4D	M	109	6D	m
46	2E	.	78	4E	N	110	6E	n
47	2F	/	79	4F	O	111	6F	o
48	30	0	80	50	P	112	70	p

49	31	1	81	51	Q	113	71	q
50	32	2	82	52	R	114	72	r
51	33	3	83	53	S	115	73	s
52	34	4	84	54	T	116	74	t
53	35	5	85	55	U	117	75	u
54	36	6	86	56	V	118	76	v
55	37	7	87	57	W	119	77	w
56	38	8	88	58	X	120	78	x
57	39	9	89	59	Y	121	79	y
58	3A	:	90	5A	Z	122	7A	z
59	3B	;	91	5B	[	123	7B	{
60	3C	<	92	5C	\	124	7C	|
61	3D	=	93	5D	]	125	7D	}
62	3E	>	94	5E	^	126	7E	~
63	3F	?	95	5F	_			



Appendix 5 Default setting table

Parameter name		Default setting	Remarks
Communication settings			
TTL-232 (default)	Serial port baud rate	9600	
	Serial check bit	No check bit	
	Serial data bit	8 bit	
	Serial port stop	1 bit	
	Host mode	OFF	
USB	USB Keyboard layout	American keyboard	
	Barcode content contains carriage enter character feed processing (USBCR) Tab	0D only (enter character)	
	Case conversion	Not converting	
	virtual keyboard	Off	
	USB keyboard sending speed	Fast speed	
	Control character escape output combination control key	Off	
	Chinese character output mode	English/Latin-1 code	
Invoice function off			
Mode parameter			
Default reading mode		Self-induction mode	Manual mode, sensing mode
Self-induction mode	Recode detection interval	500ms	

	Trigger condition	sensing	
Lighting and aiming			
Lighting mode		Normal mode	
Aiming mode		Normal mode	
Prompt output			
Power on tone		on	
Decoding success tone	prompt	on	
	Beep type	audio rate low	
	Beep volume	high	
	Beep duration	long	
code read tone setting		Allow	
Decoding success LED prompt		On	

Data editing

Prefix and suffix		
Prefix adding	No add	
Prefix content	No	
AIM ID	No add	
Code ID	No add	
Suffix adding	No add	
Suffix content	No	

End character adding	Add	
End character content	0x0A, 0x0D	Enter
Parameter name	Default setting	Remark
Barcode symbol parameter		
Inverted barcode reading	Open	Valid for all bar code symbol types
Code 128		
Reading	Allow	
Max length	127	
Min length	1	
GS1-128 (UCC/EAN-128)		
Reading	Allow	
Max length	127	
Min length	1	
EAN-8		
Reading	Allow	
EAN-13		
Reading	Allow	

2 bit extension code	No reading	
5 bit extension code	No reading	
must have the extension code	No require	
ISSN		
Reading	Not allow	
ISBN		
Reading	Not allow	
UPC-E		
Reading	allow	
Output check character	Output	
Expand to UPC-A	No expand	
UPC-A		
Reading	allow	
Output check character	Output	
UPC-A to EAN-13	Off	
Interleaved 2 of 5		
Reading	allow	

Check	No check	
Max length	128	
Min length	4	
Matrix 2 of 5		
Read	Not allow	
Max length	128	
Min length	4	
Industrial 2 of 5		
Reading	allow	
Max length	128	
Min length	4	
Standard 2 of 5		
Reading	allow	
Check	No check	
Output check character	No output	
Max length	128	
Min length	4	

Code 39		
Reading	allow	
Check	No check	
Output check character	No output	
Support Full ASCII	Support	Default (off)
Max length	127	
Min length	1	
Code 32		
Reading	allow	
Codabar		
Reading	allow	
Check	No check	
Send start character and end character	No output	
Max length	127	
Min length	1	
Code 93		
Reading	allow	

Max length	127	
Min length	1	
GS1 Databar (RSS14) (Stacked)		
Reading	allow	
send AI(01) character	Send	
GS1 Databar Limited		
Reading	allow	
Send AI(01) character	Send	
GS1 Databar Expanded		
reading	allow	
Code 11		
reading	allow	
Check bit	Output	Off
Check bit option	Off	
Max length	127	
Min length	1	
Plessey		

reading	Allow	
Check bit	Check but don't output	
Max length	127	
Min length	1	
MSI-Plessey		
Reading	allow	
Output check	Don't output	
Check bit mode selection	1 bit MOD10	
Max length	127	
Min length	1	
PDF417		
Reading	allow	
Max length	2710	
Min length	1	
Micro PDF417		
Reading	allow	
Max length	2710	

Min length	1	
QR Code		
Reading	allow	
Max length	7089	
Min length	1	
Micro QR		
Reading	allow	
Max length	7089	
Min length	1	
Data Matrix		
Reading	allow	
Max length	3116	
Min length	1	

Appendix 6 operational character (USB keyboard)

10 hex	Hex	<i>Corresponding key value (disable CODE ID)</i>	<i>Corresponding key value (enable CODE ID)</i>
0	00	retain	Ctrl+@
1	01	Insert	Ctrl+A
2	02	Home	Ctrl+B
3	03	End	Ctrl+C
4	04	Delete	Ctrl+D
5	05	PageUp	Ctrl+E
6	06	PageDown	Ctrl+F
7	07	ESC	Ctrl+G
8	08	Backspace	Backspace
9	09	Tab	Tab
10	0A	Enter (The configuration of CRLF processing decide how it express)	Ctrl+J
11	0B	Caps Lock	Ctrl+K
12	0C	Print Screen	Ctrl+L
13	0D	Enter (The configuration of CRLF processing decide how it express)	Enter
14	0E	Scroll Lock	Ctrl+N
15	0F	Pause/Break	Ctrl+O

16	10	F11	Ctrl+P
17	11	Direction key ↑	Ctrl+Q
18	12	Direction key ↓	Ctrl+R
19	13	Direction key ←	Ctrl+S
20	14	Direction key →	Ctrl+T
21	15	F12	Ctrl+U
22	16	F1	Ctrl+V
23	17	F2	Ctrl+W
24	18	F3	Ctrl+X
25	19	F4	Ctrl+Y
26	1A	F5	Ctrl+Z
27	1B	F6	ESC
28	1C	F7	Ctrl+\
29	1D	F8	Ctrl+]]
30	1E	F9	Ctrl+^
31	1F	F10	Ctrl+_

Appendix 7 operational character (serial port and USB-VCOM)

10 hex	Hex	Corresponding character
0	00	NUL
1	01	SOH
2	02	STX
3	03	ETX
4	04	EOT
5	05	ENQ
6	06	ACK
7	07	BEL
8	08	BS
9	09	HT
10	0A	LF
11	0B	VT
12	0C	FF
13	0D	CR
14	0E	SO
15	0F	SI
16	10	DLE
17	11	DC1

18	12	DC2
19	13	DC3
20	14	DC4
21	15	NAK
22	16	SYN
23	17	ETB
24	18	CAN
25	19	EM
26	1A	SUB
27	1B	ESC
28	1C	FS
29	1D	GS
30	1E	RS
31	1F	US

Some feature configuration instructions and examples

Example of custom prefix and suffix configuration

Configure the barcode pre/suffix by scan code. Each prefix or suffix character can be up to 10.(To ensure that custom suffixes can be output, configure the scanner's custom pre/post suffix output option to be turned on.)

Example 1.1: Add a custom prefix XYZ to all types of barcode.

Query the appendix barcode type ID table,the HEX value of all code systems is 99. Query the visible character ASCII table,the HEX value corresponding to XYZ is 58, 59, 5A.

Scan configuration code, custom prefix,the barcode scanner will emit a "drip..drip.." two prompt, Then scan the appendix data and edit the 9, 9, 5, 8, 5, 9, 5, A in the bar code, save, and complete the configuration.

If you need to modify the scanned barcode before saving, you can also scan to cancel the previous data or cancel the previous data to reconfigure.If you need to abandon this configuration in the middle, directly scan to cancel the current settings.

Example 1.2: Add a custom prefix R to the QR code

Query the appendix barcode type ID table,the HEX value of all code systems is 51.Query the visible character ASCII table,the HEX value corresponding to R is 58, 59, 5A.

Scan the configuration code Customize The Prefix, then scan the appendix data and edit the 5, 1, 5, 2 in the barcode to save, that is, complete the configuration.

Example 1.3: Cancel the custom prefix of the QR code

When customizing prefixes and suffixes,behind the barcode type characters are saved without adding other characters,that is, clear the custom prefix and suffix for this type of barcode.Scan the configuration code Customize The Suffix, then scan the appendix data and edit the 5,1 in the bar code, save, and complete the configuration.

Noted:If there was a prefix added for all barcodes,the configured QR code prefix will be restored to the prefix added for all barcodes.

If you need to clear the prefix/ suffixes added for various bar code types,please scan "Clear all custom prefixes

" and "Clear all custom suffixes" configuration code.

Barcode length limit configuration example

When configuring the barcode minimum length limit, you must ensure that the configured minimum length is not greater than the current maximum length configuration.Otherwise an error will be indicated.Similarly,when configuring the barcode maximum length limit, must also ensure that the configured maximum length is not less than the current minimum length configuration.

Example 2.1: Configuring Code 128 barcode length is 4-12 bits

Scan configuration code **Code 128 minimum length limit**,then scan the appendix data and edit the 4 in the bar code, save.

Scan configuration code **Code 128 maximum length limit**,then scan the appendix data and edit the 1, 2, and save the barcode to complete the configuration.

Example 2.2: Configure Interleaved 2 of 5 barcode length to 14 bits

Configuring 14 bits of Interleaved 2 of 5 barcode length can scan directly and configure ITF25 14 bits of barcode lengths for configuration.It can also be configured by the maximum and minimum length of the barcode:

Scan configuration code **Interleaved 2 of 5 minimum length limit**,then scan the appendix data and edit the 1, 4 in the bar code, save.

Scan configuration code **Interleaved 2 of 5 maximum length limit**,then scan the appendix data and edit the 1, 4 in the bar code, save,the configuration is completed.

Example 2.3: Configure Code 39 barcode length to any length supported.

Scan configuration **code Code 39** minimum length limit, then scan the appendix data and edit the 0 in the bar code, save,

Scan configuration **code Code 39** maximum length limit, then scan the appendix data and edit the 0 in the bar code, save, the configuration is completed.

Scan configuration code **Interleaved 2 of 5** maximum length limit, then scan the appendix data and edit the 1, 4 in the bar code, save, the configuration is completed.

Example for USB keyboard send speed configuration

If the performance of the client PC is weak and the transmission error is easy to occur, you need to customize the USB keyboard transmission speed to a slower speed, such as 50ms:

Scan the configuration code **Customize the sending speed**, then scan the appendix data and edit the **5,0** in the barcode to **save** the configuration.

Set method of a single reading time modification

Example: Set the length of a single reading to 5.0s. Please read the following barcodes in order:

1. Read “Modify the length of a single reading”.
2. Read the data code "5" and "0".
3. Read “Save”