

USER GUIDE

AVPos

This User Guide Applies to AVPOS 910-1D

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1.Product Introduction

This user guide applies to 910、930 scanners, which identify 1D barcodes by laser-scan 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 sensitivity declining after long-term using.

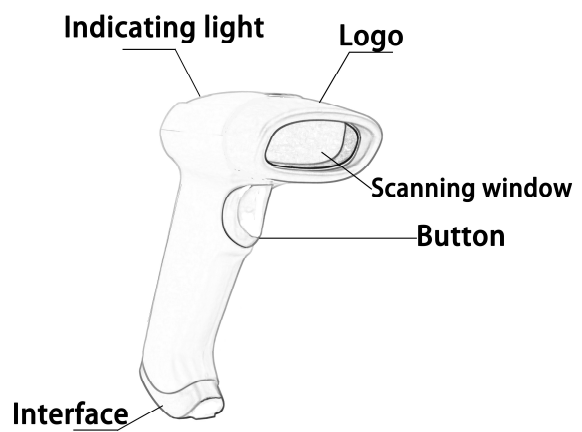
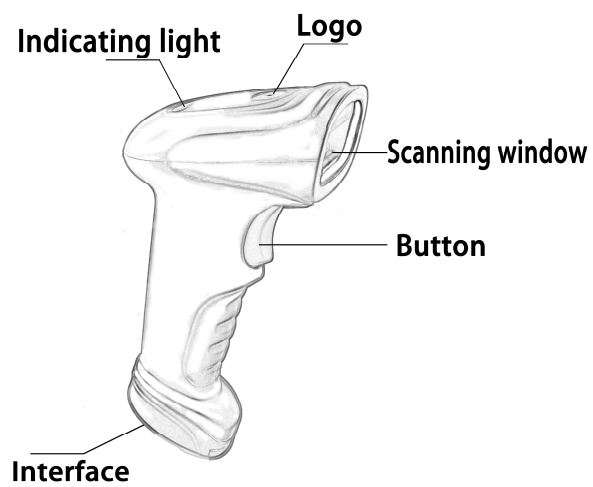
1.2 Unpack your device

After you open the shipping carton containing the product, take the following steps:

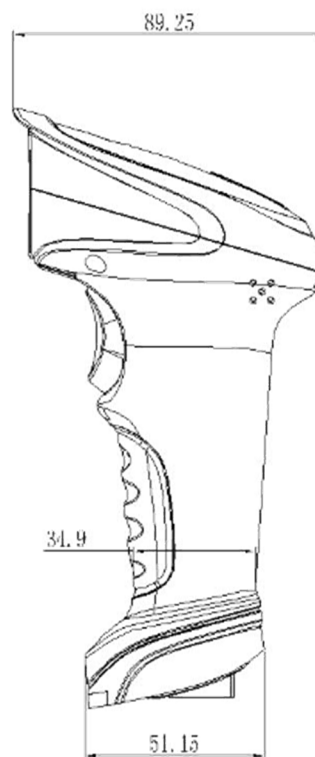
- Take out the accessories from package.
 - Check with the packing list to see if everything is complete and in good condition.
- If there are any damaged or missing components, please keep the original package and contact your supplier for after-sales service.

1.3Product display

1.3.1 External view



1.3.2 Product appearance size chart (unit: mm)



910

1.4 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.

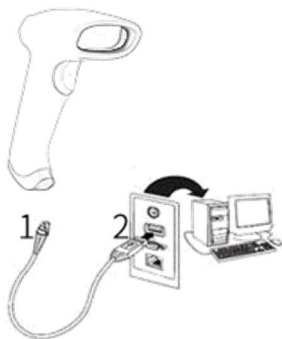
USB

USB interface on host



1.5 Connect your device

1.5.1 Connect with USB



1: Connect the device interface of USB with scanner ;

2: Connect the host interface (USB interface) of USB with host computer.

1.6 Start-up, shutdown 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.

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

1.7 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.

1.8 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:

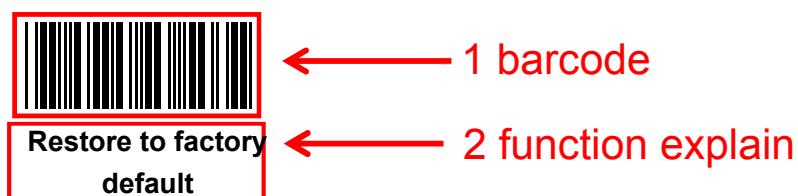


2.Settings

This product mainly sets the options and functions by reading a series of special barcodes. In this chapter, we will introduce the options and functions that can be set by the user and provide the corresponding setup codes.

This method of setting up scanning is relatively straightforward and easy to understand, and is convenient for the user to operate.

2.1 Function barcode explain

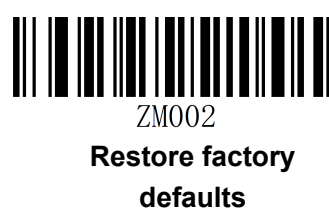
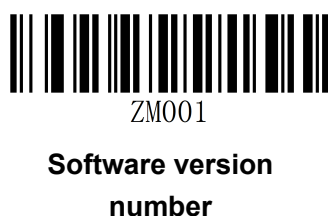


2.2 Setting barcode

Read the “Enter Setup/Exit Settings” barcode to activate the setup code function. The laser scanning platform can be set by reading more than one setup code.

To exit the setup code function, just read the “Enter Setup/Exit Setup” barcode again; if you need to restore the factory settings, you need to identify the “Restore Factory Settings” barcode.

The order of setting is as follows:



2.3 Scan mode



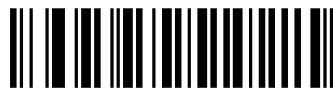
ZM003

Manual trigger scan mode



ZM004

Automatic continuous scan mode



ZM005

Auto blink scan mode

2.4 Auto sense mode



ZM006

Enable auto sense



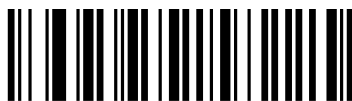
ZM007

Disable auto sense

Note: The auto sense mode can be turned on or off by pressing the button for 8 seconds.

2.5 Auto sense distance settings

Note: Auto sense level 1 to 10 is from far to near. Some products may not be recognized under different sensitivity, please set other sensitivity.



ZM04C

Level 1



ZM04D

Level 2



ZM04E

Level 3



ZM04F

Level 4



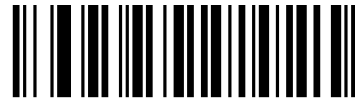
ZM050
Level 5



ZM051
Level 6



ZM052
Level 7



ZM053
Level 8



ZM054
Level 9

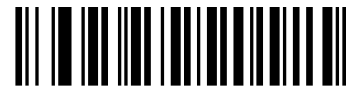


ZM055
Level 10

2.6 Data interface mode selection



ZM008
USB-HID MODE



ZM009
USB-COM MODE



ZM00A
RS232 MODE

2.7 Vibration mode (not enabled)

Note: It can only be used under the vibration function.



ZM069

Disable Vibration mode
(not enabled)



ZM06A

Enable Vibration
mode

2.8 Volume setting

2.9



ZM012

Mute mode



ZM014

Volume-High



ZM015

Volume-Middle



ZM016

Volume-Low

Suffix shortcut settings



ZM017

Disable suffix shortcuts



ZM018

suffix shortcuts-CR



ZM019

suffix shortcuts-LF



ZM01A

suffix shortcuts—
TAB



ZM01B

suffix shortcuts-CRLF

2.10 Code ID setting



ZM01D

Enable Code ID



ZM01E

Disable Code ID

2.11 Character uppercase conversion



ZM01F

Normal output



ZM020

All uppercase



ZM021

All lowercase

2.12 Keyboard layout settings



ZM022

English (US)



ZM023

English (UK)



ZM024

Japanese



ZM025

Canada



ZM026

Italy



ZM027

Spain



ZM028

Brazil



ZM029

Sweden



ZM02A

France



ZM02B

Germany



ZM02C

Belgium (not enabled)



ZM02D

Netherlands (not enabled)



ZM02E

Poland (not enabled)



ZM02F

Portugal (not enabled)



ZM030

Turkey-F (not enabled)



ZM031

Turkey-Q (not enabled)



ZM032

Latin America (not enabled)



ZM033

Serbia (not enabled)



ZM034

Finland (not enabled)



ZM035

Denmark (not enabled)



ZM036

Norway (not enabled)



ZM037

Czech Republic (not enabled)



ZM038

Croatia (not enabled)



ZM039

Slovenia (not enabled)



ZM03A

Slovakia (not enabled)



ZM03B

Hungary (not enabled)



ZM03C

Swiss-French (not enabled)



ZM03D

Swiss-German (not enabled)

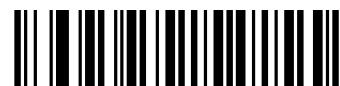
2.13 Serial port settings (not enabled)

2.13.1 Serial port baud rate setting (not enabled)



ZM044

Baud rate 2400



ZM045

Baud rate 4800



ZM046

Baud rate 9600



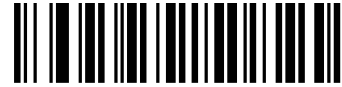
ZM047

Baud rate 19200



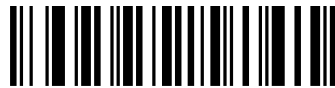
ZM048

Baud rate 38400



ZM049

Baud rate 57600



ZM04A

Baud rate 115200

2.13.2 Check bit setting



ZM200

No check bit



ZM201

Odd parity



ZM202

Even parity

2.13.3 Stop bit setting



ZM206

1 stop bit



ZM207

2 stop bits

2.13.4 Data bit setting



ZM20A

5 Data bits



ZM20B

6 Data bits



ZM20C

7 Data bits



ZM20D

8 Data bits

2.13.5 Flow control settings



ZM210

No flow control



ZM211

RTS flow control



ZM212

CTS flow control



ZM213

RTS/CTS flow control

Note: The serial command set is the same as the manual function setting, and the serial command set is preceded by ^3.

2.14 Symbolologies

2.14.1 EAN-8



ZM070

Enable EAN8 (default)



ZM076



ZM071

Enable EAN8 Transfer check
(default)



ZM077

Disable EAN8 Transfer
check



ZM075

Enable EAN8 to EAN13



ZM07B

Disable EAN8 to EAN13
(default)

2.14.2 UPC/EAN Additional code

Note: EAN includes EAN-8, EAN-13, UPC includes UPC-A, UPC-E



ZM072

additional code

Disable UPC/EAN 2 additional
code



ZM078



ZM073



ZM079

Enable UPC/EAN 5
additional code



Disable UPC/EAN 5
additional code



C/EAN
code

2.14.3 EAN-13



Enable EAN13
(default)

Ignore UPC/EAN
5additional code



Disable EAN13



Enable EAN13 transfer check
(default)



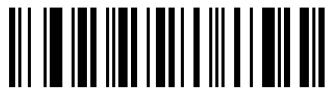
Disable EAN13 transfer
check



Enable EAN13 lead code
(default)



Disable EAN13 lead
code



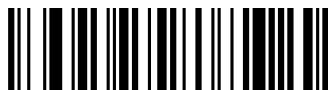
ZM0FA

Enable EAN13 to ISSN



ZM0FB

Enable EAN13 to



Disable EAN13 to ISSN and

2.14.4 ISSN\ISBN



ZM088

Enable ISSN (default)



ZM08A

Disable ISSN



ZM089

Enable ISSN to EAN-13



ZM08B

Disable ISSN to EAN-13



ZM08C

Enable ISBN (default)



ZM08F

Disable ISBN



ZM090

Set ISBN as 10 data bits



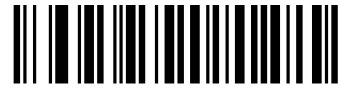
ZM08D

Set ISBN as 13 data bits



ZM08E

Enable ISBN to EAN13
(default)



ZM091

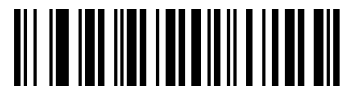
Disable ISBN to EAN13

2.14.5 UPC-A



ZM092

Enable UPC-A
(default)



ZM09A

Disable UPC-A



ZM093

Enable UPC-A transfer check code
(default)



ZM09B

Disable UPC-A transfer
check code



ZM094

Enable UPC-A transfer
country code



ZM09C

Disable UPC-A transfer
country code



ZM095

Enable UPC-A transfer system
code (default)



ZM09D

Disable UPC-A transfer
system code



ZM099

Enable UPC-A to EAN13



ZM0A1

2.14.6 UPC-E



ZM0A2

Enable UPC-E
(default)



ZM0AA

Disable UPC-E



ZM0A3

Enable UPC-E transfer check
codes (default)



ZM0AB

Disable UPC-E transfer
check codes



ZM0A4

Enable UPC-E transfer
country code



ZM0AC

Disable UPC-E transfer
country code



ZM0A5

Enable UPC-E transfer
system codes



ZM0AD

Disable UPC-E transfer
system codes



ZM0A9

Enable UPC-E to UPC-A



ZM0B1

Disable UPC-E to UPC-A
(default)

2.14.7 CODE39



ZM0B2

Enable CODE39



ZM0B7

Disable CODE39



ZM0B3

Enable CODE39 check



ZM0B8

Disable CODE39
check codes



ZM0B4

Disable CODE39 transfer
check codes



ZM0B9

Enable CODE39 transfer
check codes



ZM0B5

Enable CODE39 transfer start
bits and end bits



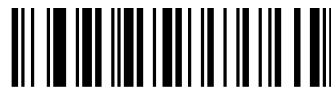
ZM0BA

Disable CODE39 transfer
start bits and end bits



ZMOB6

Disable CODE39 full ASCII reading
(default)



ZMOBB

Enable CODE39 full ASCII reading

2.14.8 CODE32



ZMOBC

Enable CODE32



ZMOBE

Disable CODE32



ZMOBD

Enable CODE32 to CODE39
(default)



ZMOBF

Disable CODE32 to
CODE39

2.14.9 CODE128



ZMOC0

Enable CODE128



ZMOC2

Disable CODE128



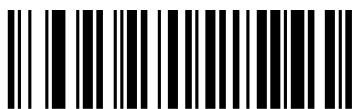
ZMOC1

Enable CODE128
check code



ZMOC3

Disable CODE128
check code



ZM104

Enable CODE128 transfer
check code (default)



ZM103

Disable CODE128
transfer check code



ZM0C4

Enable UCC-EAN128
(default)



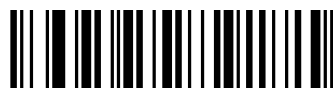
ZM0C7

Disable UCC-EAN128



ZM0C5

Enable UCC-EAN128
check code



ZM0C8

Disable UCC-EAN128 check
code



ZM0C6

Enable UCC-EAN128 to
CODE128



ZM0C9

Disable UCC-EAN128 to
CODE128



ZM10C

Enable UCC-EAN128 transfer
check codes (default)



ZM10B

Disable UCC-EAN128 check
codes

2.14.10 CODE93



ZM0CA

Enable CODE93
(default)



ZM0CD

Disable CODE93



ZMOCB

Enable CODE93 check



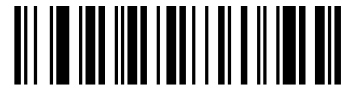
ZMOCE

Disable CODE93 check



ZMOCC

Enable CODE93 transfer check
codes



ZMOCF

Disable CODE93 transfer check
codes

2.14.11 CODE11



ZMOD0

Enable CODE11



ZMOD3

Disable CODE11



ZMOD1

Enable CODE11
check codes



ZMOD4

Disable CODE11 check
codes



ZMOD2

Enable CODE11 transfer
check codes



ZMOD5

Disable CODE11 transfer
check codes

2.14.12 CODABAR



ZMOD6

Enable CODABAR
(default)



ZMOD8

Disable CODABAR



ZMOD7

Enable CODABR transfer start bit and
end bit (default)



ZMOD9

Disable CODABR transfer start bit
and end bit

2.14.13 MSI



ZMODA

Enable MSI (default)



ZMODE

Disable MSI



ZMODF

Enable MSI prefix MOD10
check



ZMODB

Disable MSI prefix
MOD10 check



ZMOE0

Disable MSI suffix MOD10



ZMODC

Enable MSI suffix MOD10



ZMODD

Enable MSI transfer
check codes



ZMOE1

Disable MSI transfer check
codes (default)

2.14.14 Interleaved 2 of 5 (ITF5)



ZMOE2

Enable ITF 25



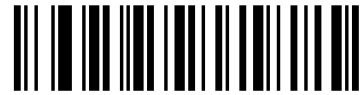
ZMOE5

Disable ITF 25



ZM0E3

Enable ITF 25 check code



ZM0E6

Disable ITF 25 check code



ZM0E4

Enable ITF 25 transfer
check code



ZM0E7

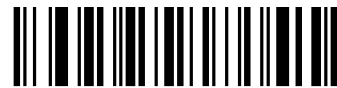
Disable ITF 25 transfer
check code

2.14.15 China Post 25 code



ZM0E8

Enable China Post 25
code



ZM0EB

Disable China Post 25
code



ZM0E9

Enable China Post 25 code
check code



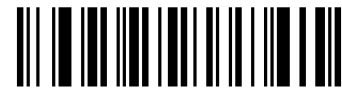
ZM0EC

Disable China Post 25 code
check code



ZM0EA

Enable sending China Post 25
code check code



ZM0ED

Disable sending China Post 25
code check code

2.14.16 Matrix 2 of 5



ZM0EE

Enable Matrix 2 of 5



ZM0F1

Disable Matrix 2 of 5



ZM0EF

Enable Matrix 2 of 5 check
code



ZM0F2

Disable Matrix 2 of 5 check
code



ZM0F0

Disable Matrix 2 of 5
sending check code



ZM0F3

Enable Matrix 2 of 5 sending
check code

2.14.17 Industrial 2 of 5



ZMOF4

Enable Industrial 2
of 5



ZMOF7

Disable Industrial 2
of 5



ZMOF5

Enable industrial 2 of
5 check code



ZMOF8

Disable industrial 2 of
5 check code



ZMOF6

Disable industrial 2 of 5
sending check code



ZMOF9

Enable industrial 2 of 5
sending check code

2.15 Prefix and suffix settings



ZM06B

Save data and
exit



ZM06C

Hidden the prefix
character



ZM06D

Hidden suffix
character



ZM06E

Add prefix



ZM06F

Add suffix

3.Hide prefix character settings

step

-
- (1) Scan the setup code "Hide Pre-Characters"
 - (2) Set the first few digits to start hiding, use two data codes to represent decimal numbers XX
 - (3) Set how many bits (including own data) to hide from the first few digits, and use the two-digit data code to represent the decimal number YY
 - (4) Finally scan the setup code "Save data and exit".
- XX stands for the first few digits, that is, it is hidden from the first few characters (including itself);
- YY stands for hiding a few digits, that is, how many digits are hidden in the future

For example: the bar code content is: "ABCDEFGHijklmn", hide the characters DEFGH, so that the output bar code is "ABCDijklmn".

- (1) Scan the setup code "Hide Pre-Characters"
- (2) The position of the character 'E' is the 4th digit, so "XX" is '0', '4',
Find a data code table and scan the data code tables '0' and '4' in turn;
- (3) Hide "DEFGH" is a total of 5 characters, so "YY" is '0', '5',
Find a data code table and scan the data code tables '0' and '5' in turn;
- (4) Finally scan the setup code "Save data and exit".

Note: Only the first and fourth steps can be performed to clear the hidden character setting or restore the factory.

Hide suffix character setting

step

- (1) Scan the setup code "Hide Post Characters"
 - (2) Set the number of reciprocals to start hiding (including its own data), and use two-digit data codes to represent decimal numbers XX
 - (3) Set the number of digits to hide the number of digits starting from the last digit, and use the two digits to represent the decimal number YY
 - (4) Finally scan the setup code "Save data and exit".
- XX stands for the last digit, that is, it hides from the last few characters (including itself);
- YY stands for hiding a few digits, that is, how many digits are hidden forward

For example: the bar code content is: "ABCDEFGHijklmn", hide the characters DEFGH, so that the output bar code is "ABCDijklmn".

-
- (1) Scan the setup code "Hide Pre-Characters"
 - (2) The position of the character 'H' is the 7th digit, so "XX" is '0', '7',
Find a data code table and scan the data code tables '0' and '7' in turn;
 - (3) Hide "DEFGH" is a total of 5 characters, so "YY" is '0', '5',
Find a data code table and scan the data code tables '0' and '5' in turn;
 - (4) Finally scan the setup code "Save data and exit".

Note: Only the first and fourth steps can be performed to clear the hidden character settings or restore the factory.

4.Add prefix settings

step

- (1) Scan the setup code "Add a prefix"
- (2) Set the first few digits to start inserting characters (including its own data), and use two-digit "data code" to represent the decimal number XX (the first setting can be omitted to set the equivalent setting to "0", "1"), please query the corresponding Data code table
- (3) For the content to be added in one scan, please find the ASCII code table.
- (4) Finally scan the setup code "Save data and exit".

For example: the original bar code content is "ABCDEFGH IJKLMN";

After adding the prefix, the content is ""ABCDE**12345**FGH IJKLMN"".

1. Scan the setup code "Add a prefix"
2. In the original barcode, the prefix content "12345" is added before the character 'F', and the original article

The code content 'F' is located at the 6th character, so the data code "XX" is "0", "6", the data code table is searched, and the barcode corresponding to the data code is sequentially scanned.

3. The content added in the original barcode is "12345", a total of 5 characters. Find the ASCII code table, the characters "1", "2", "3", "4", "5", which in turn correspond to the ASCII codes "31", "32", "33", "34", "35", And scan the corresponding bar code in turn

4. Finally scan the setup code "Save data and exit".

Note: If only the first and fourth steps are performed, the prefix content can be added for clearing or the factory can be cleared.

Add post suffix settings

step

(1) Scan the setup code "Add Suffix"

(2) Set the last few digits to start inserting characters (including its own data), and use two-digit "data code" to represent the decimal number XX (the last face can be omitted to set the equivalent setting to "0", "1"), please query the corresponding Data code table

(3) For the content to be added in one scan, please find the ASCII code table.

(4) Finally scan the setup code "Save data and exit".

For example: the original bar code content is "ABCDEFGHJKLMN";

After adding the prefix, the content is ""ABCDE12345FGHJKLMN"".

1. Scan the setup code "Add Suffix"

2. In the original barcode, the suffix content "12345" is added after the character 'E', and the original article











The code content 'E' is located at the 10th character of the last digit, so the data code "XX" is "1", "0", the data code table is searched, and the barcode corresponding to the data code is sequentially scanned.









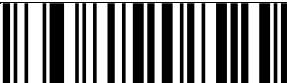






3. The content added in the original barcode is "12345", a total of 5 characters. Find the ASCII code table, the characters "1", "2", "3", "4", "5", which in turn correspond to the ASCII codes "31", "32", "33", "34", "35", And scan the corresponding bar code in turn

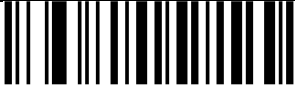



































4. Finally scan the setup code "Save data and exit".









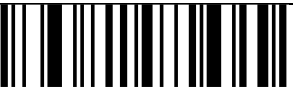


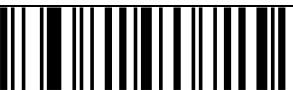

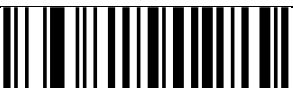


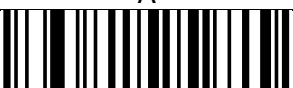



















Note: Only the first and fourth steps can be performed to clear the suffix content or restore the factory.





































5.Appendix































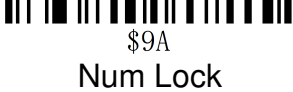
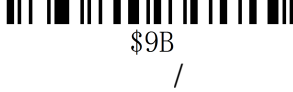




Data code table		
 D00 0	 D01 1	 D02 2
 D03 3	 D04 4	 D05 5
 D06 6	 D07 7	 D08 8
 D09 9		





































ASCII numerical table		
 \$01 SOH	 \$02 STX	 \$03 ETX
 \$04 EOT	 \$05 ENQ	 \$06 ACK
 \$07 BEL	 \$08 BS	 \$09 HT
 \$0A LF	 \$0B VT	 \$0C FF
 \$0D CR	 \$0E SO	 \$0F SI



















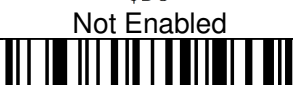
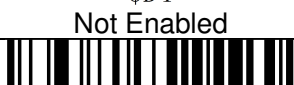
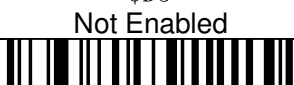
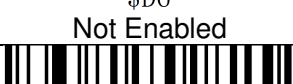
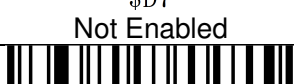
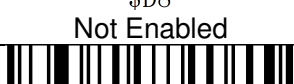
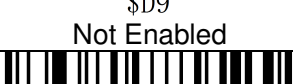
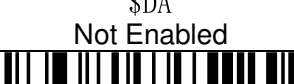
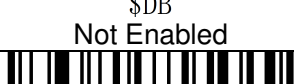

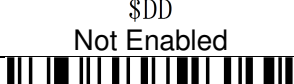
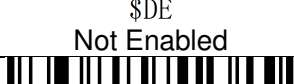


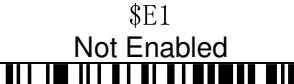
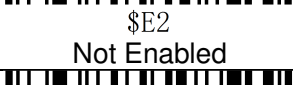
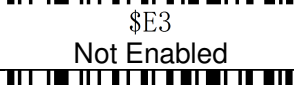
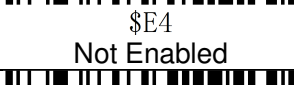
 \$10 DLE	 \$11 DC1	 \$12 DC2
 \$13 DC3	 \$14 DC4	 \$15 NAK
 \$16 SYN	 \$17 ETB	 \$18 CAN
 \$19 EM	 \$1A SUB	 \$1B ESC
 \$1C FS	 \$1D GS	 \$1E RS
 \$1F US	 \$20 SP	 \$21 !
 \$22 "	 \$23 #	 \$24 \$
 \$25 %	 \$26 &	 \$27 .
 \$28 ( \$29)	 \$2A *
 \$2B +	 \$2C ,	 \$2D -
 \$2E .	 \$2F /	 \$30 0
 \$31 1	 \$32 2	 \$33 3













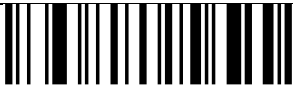

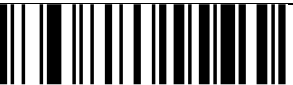


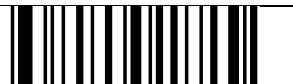






 \$34 4	 \$35 5	 \$36 6
 \$37 7	 \$38 8	 \$39 9
 \$3A :	 \$3B ;	 \$3C <
 \$3D =	 \$3E >	 \$3F ?
 \$40 @	 \$41 A	 \$42 B
 \$43 C	 \$44 D	 \$45 E
 \$46 F	 \$47 G	 \$48 H
 \$49 I	 \$4A J	 \$4B K
 \$4C L	 \$4D M	 \$4E N
 \$4F O	 \$50 P	 \$51 Q
 \$52 R	 \$53 S	 \$54 T
 \$55 U	 \$56 V	 \$57 W

 \$58 X	 \$59 Y	 \$5A Z
 \$5B [ \$5C \"	 \$5D]
 \$5E ^	 \$5F -	 \$60 .
 \$61 a	 \$62 b	 \$63 c
 \$64 d	 \$65 e	 \$66 f
 \$67 g	 \$68 h	 \$69 i
 \$6A j	 \$6B k	 \$6C l
 \$6D m	 \$6E n	 \$6F o
 \$70 p	 \$71 q	 \$72 r
 \$73 s	 \$74 t	 \$75 u
 \$76 v	 \$77 w	 \$78 x
 \$79 y	 \$7A z	 \$7B [

 \$7C	 \$7D	 \$7E
 \$7F DEL	 \$80 Caps Lock	 \$81 Function key F1
 \$82 Function key F2	 \$83 Function key F3	 \$84 Function key F4
 \$85 Function key F5	 \$86 Function key F6	 \$87 Function key F7
 \$88 Function key F8	 \$89 Function key F9	 \$8A Function key F10
 \$8B Function key F11	 \$8C Function key F12	 \$8D PrtScr SysRq
 \$8E Scroll Lock	 \$8F Pause	 \$90 Insert
 \$91 Home	 \$92 Page Up	 \$93 Delete
 \$94 Page Down	 \$95 Not Enabled	 \$96 →
 \$97 ←	 \$98 ↓	 \$99 ↑
 \$9A Num Lock	 \$9B /	 \$9C *
 \$9D -	 \$9E +	 \$9F Enter

 \$A0 shift	 \$A1 2	 \$A2 3
 \$A3 4	 \$A4 5	 \$A5 6
 \$A6 7	 \$A7 8	 \$A8 9
 \$A9 0	 \$AA .	 \$AB Not Enabled
 \$AC Not Enabled	 \$AD Not Enabled	 \$AE Not Enabled
 \$AF Not Enabled	 \$B0 Not Enabled	 \$B1 Not Enabled
 \$B2 Not Enabled	 \$B3 Not Enabled	 \$B4 Not Enabled
 \$B5 Not Enabled	 \$B6 Not Enabled	 \$B7 Not Enabled
 \$B8 Not Enabled	 \$B9 Not Enabled	 \$BA Not Enabled
 \$BB Not Enabled	 \$BC Not Enabled	 \$BD Not Enabled
 \$BE Not Enabled	 \$BF Not Enabled	 \$C0 Not Enabled
 \$C1 Not Enabled	 \$C2 Not Enabled	 \$C3 Not Enabled

 \$C4 Not Enabled	 \$C5 Not Enabled	 \$C6 Not Enabled
 \$C7 Not Enabled	 \$C8 Not Enabled	 \$C9 Not Enabled
 \$CA Not Enabled	 \$CB Not Enabled	 \$CC Not Enabled
 \$CD Not Enabled	 \$CE Not Enabled	 \$CF Not Enabled
 \$D0 Not Enabled	 \$D1 Not Enabled	 \$D2 Not Enabled
 \$D3 Not Enabled	 \$D4 Not Enabled	 \$D5 Not Enabled
 \$D6 Not Enabled	 \$D7 Not Enabled	 \$D8 Not Enabled
 \$D9 Not Enabled	 \$DA Not Enabled	 \$DB Not Enabled
 \$DC Not Enabled	 \$DD Not Enabled	 \$DE Not Enabled
 \$DF Not Enabled	 \$E0 Not Enabled	 \$E1 Not Enabled
 \$E2 Not Enabled	 \$E3 Not Enabled	 \$E4 Not Enabled
 \$E5 Not Enabled	 \$E6 Not Enabled	 \$E7 Not Enabled

 \$E8 Not Enabled	 \$E9 Not Enabled	 \$EA Not Enabled
 \$EB Not Enabled	 \$EC Not Enabled	 \$ED Not Enabled
 \$EE Not Enabled	 \$EF Not Enabled	 \$F0 Not Enabled
 \$F1 Not Enabled	 \$F2 Not Enabled	 \$F3 Not Enabled
 \$F4 Not Enabled	 \$F5 Not Enabled	 \$F6 Not Enabled
 \$F7 Not Enabled	 \$F8 Not Enabled	 \$F9 Not Enabled
 \$FA Not Enabled	 \$FB Not Enabled	 \$FC Not Enabled
 \$FD Not Enabled	 \$FE Not Enabled	 \$FF Not Enabled

AVPos