



User Guide AVP-BP100-1D

www.avpos.es

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.

The pictures in this user guide are for reference only. If there are any pictures which not match the actual product, please take actual products as the standard. Updated information is subject to change without notice.

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Version Record

Version number	Version description	Version date
V 1.0.0	Initial version	2016-8-23
V 1.2.3	Optimize menu	2016-9-10
V 1.5.1	Optimize decoding performance	2016-12-01
V 2.0.1	Modify performance menu	2017-03-01
V 2.0.2	Perfect overall performance	2017-07-18

CATALOG

1、 Product Introduction	7
1.1 Main feature	7
1.2 Unpack your device	7
1.3 Communication port	8
1.4 Start-up, shutdown and restart	8
1.5 Maintenance	8
1.6 Reading skills	9
2.Command Instruction	¡Error! Marcador no definido.
2.1 barcode instructions explain	¡Error! Marcador no definido.
2.2 Serial port instructions explain	¡Error! Marcador no definido.
2.3 Instruction list	9
2.4 Quick instructions (HEX format)	¡Error! Marcador no definido.
3、 System setting	11
3.1 Mark setting	11
3.2 Setting Steps	11
3.2.1 Interface mode setting	12
3.2.2 Buzzer and LED setting	13

3.2.3 Baud rate setting	14
3.2.4 Serial port instructions response setting	14
3.2.5 Trigger scan and stop scan setting	15
3.2.6 Trigger scan model and reading mode setting	15
3.2.7 Same Barcode Scanning Interval setting	16
3.2.8 Scan time setting for key trigger scan mode	16
3.2.9 Scan time setting for serial command/auto scan mode	18
3.2.10 Case switching	19
3.2.11 auto sense mode setting	19
3.2.12 USB upload speed setting	20
3.2.13 Decode setting	20
3.2.14 Disable/Enable read all barcodes	21
3.2.15 Start character	22
3.2.16 Ending character setting	22
3.2.17 User-defined start character/ending character	24
Appendix 1 User-defined start character/ending character	25
Appendix 2 ASCII table	¡Error! Marcador no definido.
Appendix 3 barcode sample	¡Error! Marcador no definido.



1、 Product Introduction

This user guide applies to AVPos BP100, which identify 1D barcodes by red light 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 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.

1.3 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 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.

1.5 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. System Setting

Option and function setting mainly through reading a series of special barcodes. In this chapter, we will provide you a detailed introduction of the options and functions available for user setting, and the corresponding setup code.

This method of setting the scanning is direct, easy to understand and user friendly.

2.1 Mark Setting

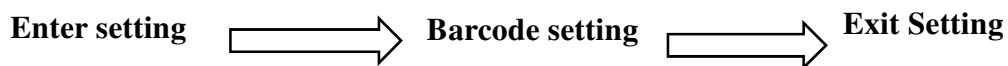


2.2 Change Setting Steps

Read the “Enter setting” barcode to activate code setting function. Scanners can be set by reading one or more setting code.

Scan the "Exit setting" barcode to exit the setup code function. Scan the “Restore factory default setting" barcode to restore the factory setting.

Take the following setting steps :

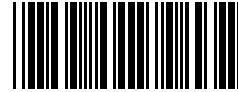




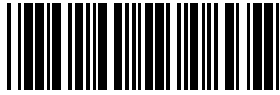
Restore Factory
Defaults



Exit Setting



Restore User
defaults

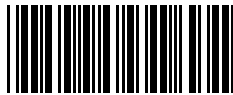


Setting User Defaults

(Save Current Setting As User-Defined Defaults)



Read Production Batch Version

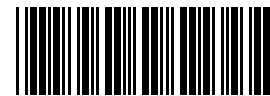


Read BOOTLOAD
version

2.2.1 Interface Mode Setting

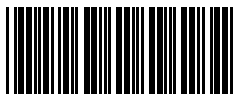


RS 232 MODEL



USBMODEL

2.2.2 Buzzer And LED Setting



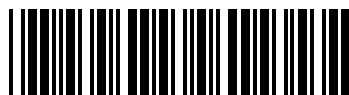
Shut Down Start Voice



Open Start Voice (Default)



Successful Scanning Sound Off



Successful Scanning Sound On(Default)



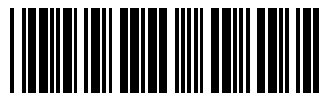
Buzzer Volume Low



Buzzer Volume Middle (Default)



Volume High

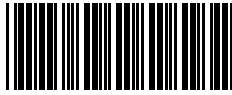


Successful Setting Sound Off

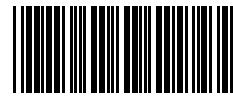


Successful Setting Sound On(Default)

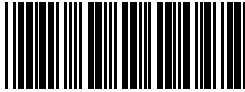
2.2.3 Baud Rate Setting



2400 Baud



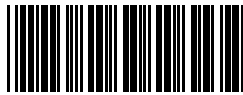
4800 Baud



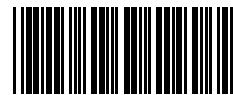
9600Baud (Default)



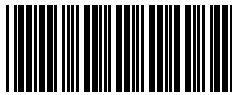
19200 Baud



38400 Baud

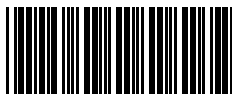


57600 Baud

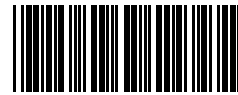


115200 Baud

3.2.4 Serial Port Instructions Response Setting

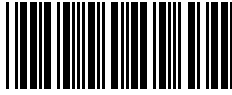


NO Response (Default)



Response

3.2.5 Trigger Scan And Stop Scan Setting



Trigger Scan

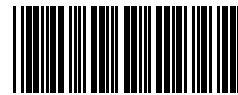


Stop Scan

3.2.6 Trigger Scan Model And Reading Mode Setting



Single Trigger Scan Model(Default)



Continue Scan Model



Not Allowed Repeat Reading



Allowed Repeat Reading (Default)

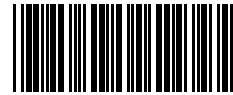


Enable/Disable Allowed Repeat Reading

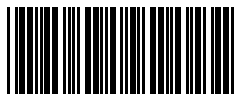
3.2.7 Same Barcode Scanning Interval Setting



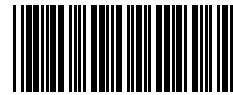
0ms (Default)



100ms



200ms



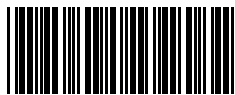
500ms



900ms



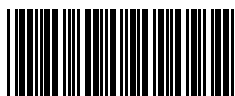
1000ms



1500ms



2000ms

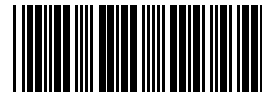


9900ms

3.2.8 Scan Time Setting For Key Trigger Scan Mode



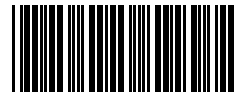
0ms (Default)



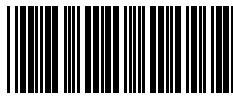
100ms



200ms



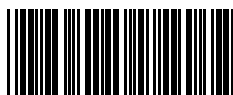
500ms



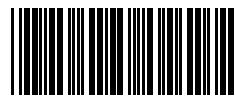
900ms



1000ms



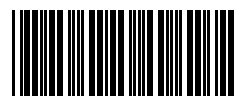
1500ms



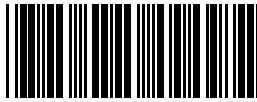
2000ms



4000ms

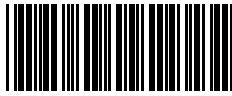


6000ms

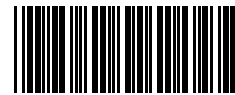


9900ms

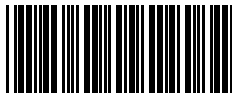
3.2.9 Scan Time Setting For Serial Command/Auto Scan Mode



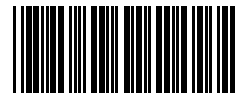
100ms



200ms



500ms



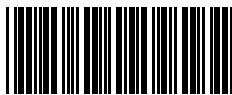
900ms



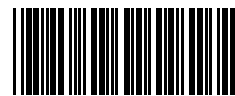
1000ms



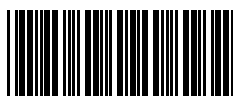
1500ms



2000ms



4000ms (Default)



6000ms



9900ms

3.2.10 Case Switching



No Case Switching (Default)

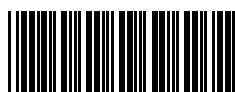


Lowercase Switch To Uppercase



Uppercase Switch To Lowercase

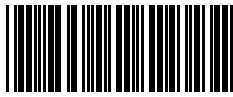
3.2.11 Auto Sense Mode setting



Disable (default)



Enable

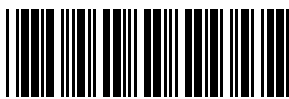


High Sensitivity (Default)



Low Sensitivity

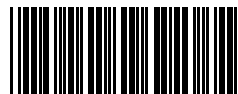
3.2.12 USB Upload Speed Setting



USB Upload Speed Slow (Default)

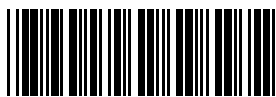


USB Upload Speed Middle

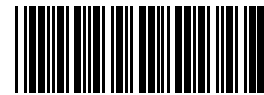


USB Upload Speed Fast

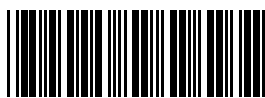
3.2.13 Decode Setting



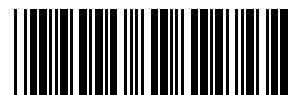
Disable Read (EAN)



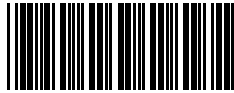
Enable Read (EAN)



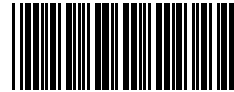
Disable Read (Codabar)



Enable Read (Codabar) (Default)



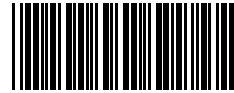
Disable Read (Code 93)



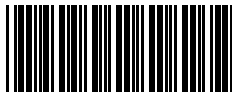
Enable Read (Code 93)



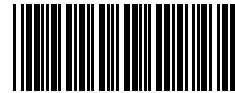
Disable Read (Code 128)



Enable Read (Code 128)



Disable Read (Code 25)



Enable Read (Code 25)

3.2.14 Disable/Enable Read All Barcodes

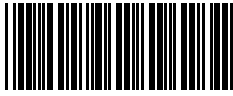


Disable Read All Barcodes

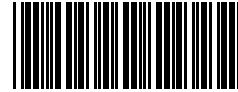


Enable Read All Barcodes

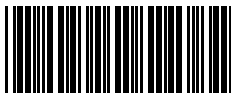
3.2.15 Start Character



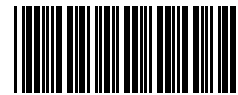
No Start Character (Default)



Space + Barcode

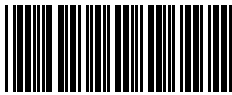


ID+Barcode



ID+ User-Defined Start Character

+ Barcode



User-Defined Start Character +

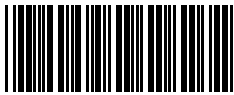
ID + Barcode



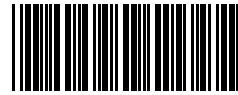
User-Defined Start Character

+ Barcode

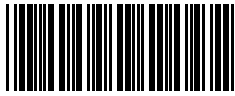
3.2.16 Ending Character Setting



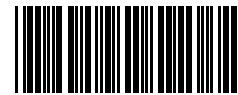
No Ending Character (Default)



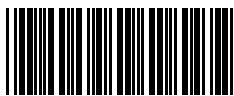
0x0D As Ending Character



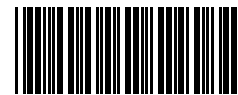
0x0D As Ending Character



0x0D 0x0A As Ending Character



Tab(0x09)



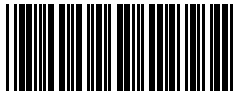
Tab(0x09) 0x0D



Barcode + User-Defined Ending Character

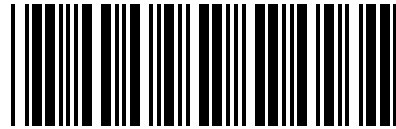


Barcode + User-Defined Ending
Character+0x0D



Barcode + User-Defined Ending

Character+0x0A



Barcode + User-Defined Ending Character

+0x0D 0x0A



Barcode + User-Defined Ending







Character + Tab (0x09)



















3.2.17 User-Defined Start Character/Ending Character





















remark : User-defined start character/ending character please refer to appendix 1





















Appendix





















Appendix 1 User-Defined Start Character/Ending Character





















Control character	Hex	barcode
^@ (NULL)	YS00	
^A (SOH)	YS01	
^B (STX)	YS02	
^C (ETX)	YS03	
^D (EOT)	YS04	
^E (ENQ)	YS05	
^F (ACK)	YS06	
^G (BEL)	YS07	
^H (BS)	YS08	
^I (HTab)	YS09	
^J (LF)	YS0A	
^K (VTab)	YS0B	
^L (FF)	YS0C	
^M (CR)	YS0D	
^N (SO)	YS0E	
















^O (SI)	YS0F	
^P (DLE)	YS10	
^Q (DC1)	YS11	
^R (DC2)	YS12	
^S (DC3)	YS13	
^T (DC4)	YS14	
^U (NAK)	YS15	
^V (SYN)	YS16	
^W (ETB)	YS17	
^X (CAN)	YS18	
^Y (EM)	YS19	
^Z (SUB)	YS1A	
^[(ESC)	YS1B	
^\ (FS)	YS1C	
^] (GS)	YS1D	
^^ (RS)	YS1E	
^_ (US)	YS1F	
SPC	YS20	



















!	YS21	
"	YS22	
#	YS23	
\$	YS24	
%	YS25	
&	YS26	
'	YS27	
(YS28	
)	YS29	
*	YS2A	
+	YS2B	
,	YS2C	
-	YS2D	
.	YS2E	
/	YS2F	
0	YS30	
1	YS31	
2	YS32	
3	YS33	
4	YS34	

5	YS35	
6	YS36	
7	YS37	
8	YS38	
9	YS39	
:	YS3A	
;	YS3B	
<	YS3C	
=	YS3D	
>	YS3E	
?	YS3F	
@	YS40	
A	YS41	
B	YS42	
C	YS43	
D	YS44	
E	YS45	
F	YS46	
G	YS47	
H	YS48	

I	YS49	
J	YS4A	
K	YS4B	
L	YS4C	
M	YS4D	
N	YS4E	
O	YS4F	
P	YS50	
Q	YS51	
R	YS52	
S	YS53	
T	YS54	
U	YS55	
V	YS56	
W	YS57	
X	YS58	
Y	YS59	
Z	YS5A	
[YS5B	
\	YS5C	

]	YS5D	
^	YS5E	
_	YS5F	
`	YS60	
a	YS61	
b	YS62	
c	YS63	
d	YS64	
e	YS65	
f	YS66	
g	YS67	
h	YS68	
i	YS69	
j	YS6A	
k	YS6B	
l	YS6C	
m	YS6D	
n	YS6E	
o	YS6F	
p	YS70	

q	YS71	
r	YS72	
s	YS73	
t	YS74	
u	YS75	
v	YS76	
w	YS77	
x	YS78	
y	YS79	
z	YS7A	
{	YS7B	
	YS7C	
}	YS7D	
~	YS7E	
DEL	YS7F	

Function keys	Hex	barcode
F1	YS80	
F2	YS81	
F3	YS82	
F4	YS83	
F5	YS84	
F6	YS85	
F7	YS86	
F8	YS87	
F9	YS88	
F10	YS89	
F11	YS8A	
F12	YS8B	
Backspace	YS8C	
Tab	YS8D	
Return (ENTER)	YS8E	
Enter (Numeric Keypad)	YS8F	
Esc	YS90	
Arrow Down	YS91	

Arrow up	YS92	
Arrow right	YS93	
Arrow left	YS94	
Insert	YS95	
Home	YS96	
End	YS97	
Page up	YS98	
Page down	YS99	
Left Shift	YS9A	
Left Ctrl	YS9B	
Left Alt	YS9C	
Left GUI	YS9D	
Right Shift	YS9E	
Right Ctrl	YS9F	
Right Alt	YSA0	
Right GUI	YSA1	
Caps Lock	YSA2	