

## Test Code



## 2D HANDHELD BARCODE Scanner



User's  
**MANUAL**

[www.3nStar.com](http://www.3nStar.com)





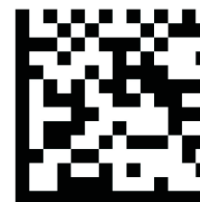
**Factory Default**



**Version**

### **Factory Default Situation**

Functions	Default
Interface	USB-HID
Prefix	NON
Suffix	NON
Trigger	Manual
illumination	ON
Buzzer	High
Serial Port Specification	Baud rate (115200)
	Check Bit(none)
	Data Bits(8)
	Stop Bits(1)
Image invert	OFF
USB-HID Language	US keyboard



**Quit Settings**

**Scan the code to quit all current settings  
before power outage.**

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The 2D image scanner supports 4 kind of interfaces :USB-HID, USB-COM,RS232,TLLUART.

- (1)USB-HID, Use standard USB hardware port and HID keyboard driver (System default ,free installation).All devices that can use USB keyboard are available to this mode .
- (2)USB-COM,Use standard USB hardware port and USB virtual. serial port driver (Use the driver from Our company ).In this mode ,USB interface will be simulated as a serial number assigned to a serial .(E.g :COM1) . Same as using RS232 interface .
- (3)RS232 , Use standard DB9-pin serial interface and Standard RS232 serial interface protocol.All devices which can be Serial peripheral are available to this mode . (This mode is not applicable to code setting .Only set by specific cable or factory default .)
- (4)TTLUART , Available to use customized interface and TTL Serial Interface Protocol.All devices which can be Serial peripheral are available to this mode . (This mode is not applicable to code setting .Only set by specific cable or factory default .)



USB-HID

(Default)  
Scan this code can enter  
to USB-HID mode.

Can this code can enter  
to USB-COM mode.



USB-COM

(2)

## 2. Prefix settings

Set the digital bar code with customized prefix ,  
customized prefix setting and prefix in  
hexadecimal value ,then scan “save setting “ .  
Please make a reference to ASCII TABLE for  
the hexadecimal value.

Example to add a prefix :

Set customized prefix “ODE”

(1)Check the hex values of “ODE”in the ASCII  
Table.(“ODE”:4F,44,45)

(2)Scan the Set Custom Prefix barcode.

(3)Scan the numeric barcodes “ 9”,“9”. “ 4”,  
“F”,“4”,“4”,“4”and “5”in Appendix.

(4)Scan the Save barcode

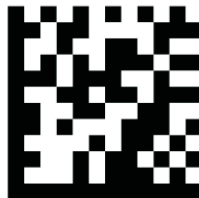
(3)



Add a prefix.

Add prefix

Delete the prefix settings.



(4)

Delete prefix

### 3. Suffix settings

Set the digital bar code with customized suffix , customized suffix setting and suffix in hexadecimal value ,then scan “save setting “ . Please make a reference to ASCII TABLE for the hexadecimal value.

Example to add a suffix :

Set customized suffix “ODE”

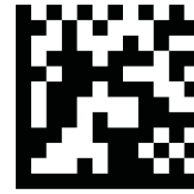
- (1) Check the hex values of “ODE” in the ASCII Table. (“ODE”:4F,44,45)
- (2) Scan the Set Custom Prefix barcode.
- (3) Scan the numeric barcodes “9”, “9”. “4”, “F”, “4”, “4”, “4” and “5” in Appendix.
- (4) Scan the Save barcode

(5)



Add a suffix .

Add suffix



Add a suffix ENTER and Line  
feed Bits.

Add Enter Line feed

Delete the suffix which has  
been set.



Delete suffix

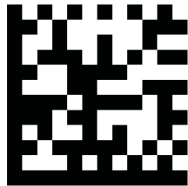
(6)



Add enter suffix Bits.

Add Enter

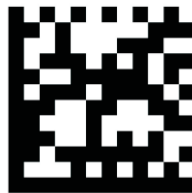
(7)



Add Line feed suffix Bits.

Add Line feed

Add suffix TAB Bits.



Add TAB

(8)

#### **4.Trigger Method**

These codes can set the operating method of our 2D image barcode scanner.

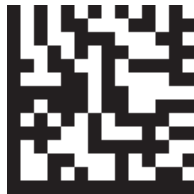
(9)



Manual

(Default)  
After scan this code need  
press the button to  
triggering the scanner into  
operating situation then  
reading the code

Set the operating method.



Works Always Mode

(10)

## 5.Illumination Method

(11)



Light ON

(Default)  
Open the white LEDs.

Off the white LEDs.



Light OFF

(12)

## 6. Buzzer voice adjust settings

This 2D image barcode scanner can set buzzer voice be Higher ,Mid,Lower or OFF buzzer .

(13)



Higher

(Default)  
Higher voice mode (Buzzer  
voice highest status).



Lower

Lower voice mode.

Mid voice mode



Mid

(14)

OFF voice .



OFF

(15)

## 7.Serial port mode settings

- (1). Set serial port specification details.
- (2).Scan the coresponding code set the band rate.
- (3).Corresponding codes set.

(16)



Baud rate 1152000

(Default)  
Serial port Baud rate Bits 115200.



Baud rate BR0600

Set the serial port  
Baud rate as 600.

(17)



Baud rate 1200

Baud rate as 1200.



Baud rate 4800

Baud rate Bit 4800.



Baud rate 2400

Baud rate as 2400.

(18)



Baud rate 9600

Baud rate as 9600.

(19)



Baud rate as 19200.

Baud rate19200



Set Baud rate as 57600.

Baud rate 57600



Baud rate as 38400.

Baud rate 38400

(20)



(Default)  
NONE check/8bits data Bits1  
/stop Bits.

NONE.8.1

(21)



NONE.7.1

NONE check 7bits data Bits /1 stop Bits.



EVEN.8.1

EVEN check 8bits data Bits ,1 stop Bits.

NONE check 7bits data Bits/  
2 stop Bits.



NONE.7.2

(22)

EVEN check 7bits data Bits ,  
1 stop Bits.



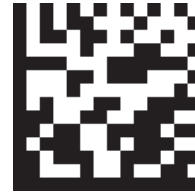
EVEN.7.1

(23)



EVEN check 7bits/data /Bits ,2 stop Bits.

EVEN 7 2



ODD check 7bits data Bits ,1 stop Bits.

ODD.7.1

ODD check/8bits data /Bits ,  
1 stop Bits.



ODD.8.1

(24)

ODD check/7bits data  
Bits /2 stop Bits.

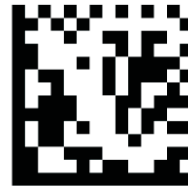


ODD.7.2

(25)

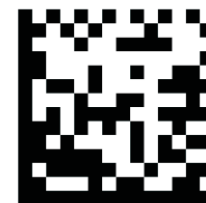
## 8. Image Reverse

(26)



ON

(27)

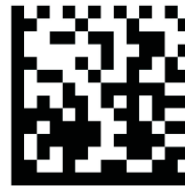


OFF(Default)

## 9.USB-HID Languages Settings

Scan these codes can set  
correspondingcountries keyboard .

(28)



USA



(29)

UK



France



Belgium



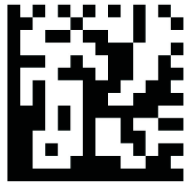
Italy

(30)



Germany

(31)



Spain



Turkey-F

(32)

## 10.ASCII TABLE

(33)

ndix 4: ASCII Table

Hex	Char
00	NUL (Null char.)
01	SOH (Start of Header)
02	STX (Start of Text)
03	ETX (End of Text)
04	EOT (End of Transmission)
05	ENQ (Enquiry)
06	ACK (Acknowledgment)
07	BEL (Bell)
08	BS (Backspace)
09	HT (Horizontal Tab)
0a	LF (Line Feed)
0b	VT (Vertical Tab)
0c	FF (Form Feed)
0d	CR (Carriage Return)
0e	SO (Shift Out)
0f	SI (Shift In)
10	DLE (Data Link Escape)
11	DC1 (XON) (Device Control 1)
12	DC2 (Device Control 2)
13	DC3 (XOFF) (Device Control 3)
14	DC4 (Device Control 4)
15	NAK (Negative Acknowledgment)
16	SYN (Synchronous Idle)
17	ETB (End of Trans. Block)
18	CAN (Cancel)
19	EM (End of Medium)
1a	SUB (Substitute)
1b	ESC (Escape)
1c	FS (File Separator)
1d	GS (Group Separator)

Hex	Char
1e	RS (Request to Send)
1f	US (Unit Separator)
20	SP (Space)
21	! (Exclamation Mark)
22	" (Double Quote)
23	# (Number Sign)
24	\$ (Dollar Sign)
25	% (Percent)
26	& (Ampersand)
27	' (Single Quote)
28	( (Right / Closing Parenthesis)
29	) (Right / Closing Parenthesis)
2a	* (Asterisk)
2b	+ (Plus)
2c	, (Comma)
2d	- (Minus / Dash)
2e	. (Dot)
2f	/ (Forward Slash)
30	0
31	1
32	2
33	3
34	4
35	5
36	6
37	7
38	8
39	9
3a	: (Colon)
3b	; (Semi-colon)
3c	< (Less Than)
3d	= (Equal Sign)

Hex	Char
3e	> (Greater Than)
3f	? (Question Mark)
40	@ (AT Symbol)
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	[ (Left / Opening Bracket)
5c	\ (Back Slash)
5d	] (Right / Closing Bracket)

(36)

Hex	Char
5e	^ (Caret / Circumflex)
5f	_ (Underscore)
60	' (Grave Accent)
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	{ (Left/ Opening Brace)
7c	(Vertical Bar)
7d	} (Right/Closing Brace)
7e	~ (Tilde)
7f	DEL (Delete)

(37)

## 11. appendix

(38)



0



1

(39)



2



4



3

(40)



5

(41)



6



8



7

(42)



9

(43)



A



C



B

(44)



D

(45)



E



F

(46)



Save Settings

(47)

## 12. Instruction for Bluetooth Pair Mode

(1). Scanners pair with receiver base (Both of our company ).

Enter Settings

Open a SPP Channel

Disconnect previous connection

Scan receiver MAC address code.

Finished SPP Bluetooth settings

Many to one Mode : Scan the bar codes above orderly

2. Our scanners pair with any Bluetooth Receiver.(PC)

1) HID Mode

Enter Settings

Open a HID Channel

Disconnect previous connection

Setting Bluetooth module as visible

Finished HID setting

Search for Bluetooth pairing in the computer end, if the last connection is HID mode, automatic re-connect with previous adapter after a restart .

(48)

2) Spp Mode

Enter Settings

Open a SPP Channel

Disconnect previous connection

Setting Bluetooth module as visible

Finished SPP Bluetooth settings

3. Disconnect and Reconnect Function.

The module supports disconnect and Reconnect Function. Applies to the following conditions:  
Power off, out of range lead to the disconnect and the adapter unplugged.

1. Power off : After a restart , the module will automatically reconnect a paired adapter and keep the last connection working status. HID, SPP.

2. Out of range leads to disconnect: Re come within a reasonable distance, the module automatically reconnect the adapter.

3. The adapter unplugged: Module automatically searches adapter, when you plug the adapter ,it will automatically reconnect successfully. Need an adapter plugged into the same computer.

4. The Default Password is 0000.

5. Mobile end paired same as PC terminal only need scan "Open random codes confirmation automatically " and "Open random codes quick. paired".

(49)



Enter Settings



Open a HID Channel



(50) Disconnect previous connection



(51) Open a SPP Channel



Setting Bluetooth  
module as visible



Auto reconnection

(52)



Finished HID  
Bluetooth settings

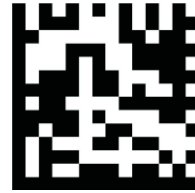


Finished SPP Bluetooth  
settings

(53)



Open random codes  
confirmation automatically



Enter IOS Transmit Mode



Open random codes  
quick paired



Quit IOS Transmit Mode

(54)

(55)

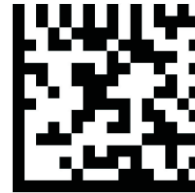
## 2. Bluetooth reveiver

Bluetooth receiver (Includes receiver ,  
USB Portable receiver)interfaces  
supported USB-HID,USB-COM,RS232,  
TTLUART.The receiver port nonsupport  
codes setting,need set in original factory .

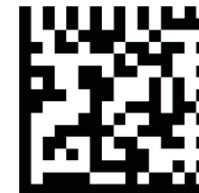
## 3. Bluetooth receiver Languages settings

Scan these codes can set receiver  
corresponding Languages.

(56)



USA



UK

(57)



France



Belgium



Italy

(58)



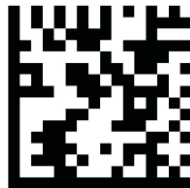
Germany

(59)



Spain

(60)



Turkey-F

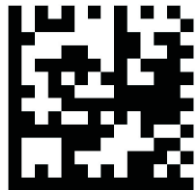
### **13.Storage related functions codes**

These codes can let the barcode scanners enter into storage status and finish related functions.

(61)



Enter Inventory mode



Quit Inventory mode



Upload all datas

(62)



Upload New Datas



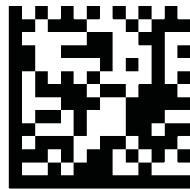
Upload Statistic Datas



Clear All Datas

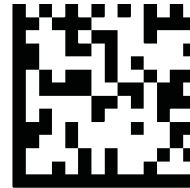
(63)

## Cyrillic-UTF-8 QR Code Settings



UTF-8

(64)

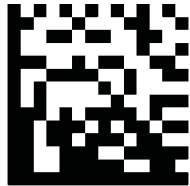


Shift\_JIS

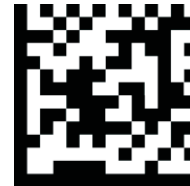


RUSSIA

(65)



RUSSIA



Default



CP1251

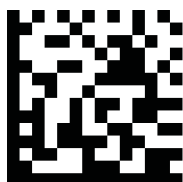
(66)



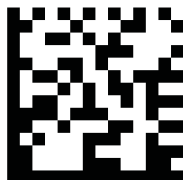
Alt + unicode

(67)

## Additional



Turbo mode ON



Turbo mode OFF  
(Default)