## **R7** Wireless Ring Scanner User Guide



## **Getting Started**

#### Tips:

Power on: Press 'power button' Power off: Press and hold the 'power button' at least 3 second Scan trigger: press the 'scan button' to trigger scanning

#### Appearance

Font size view



Side view



## Buzzer/LED lights prompt

#### State

#### The top indicator:

Blue light blinking slowly Solid blue Red light blink 3 times(w/buzzer ringing 5 times) Solid red Red light goes out

#### The tail indicator

Buzzer ringing continuously Buzzer stopped ringing Green light (w/buzzer ringing) Red light (w/buzzer ringing 4 times) All light flashing (w/buzzer ringing 3 times)

#### description

Awaiting Bluetooth connection Bluetooth pairing successfully Low battery In charge Charging completed

2.4G mode awaiting connection2.4G link successfulScanning successScanning abnormal/ paired failurePower on

#### Connection

#### Method I:2.4GHz wireless RF Connection

Step 1. Ensure R7 is powered on , and scan any bar codes of the 2.4GHz Connection channel(<u>Page 8-9</u>). Do not use the same channel when your working area was adjacent.
Step 2. When the continuous beeping starts, plug-in the USB dongle to your computer.
Step 3.Then continuous beeping will stop, means to connect successful.

#### Method II: Bluetooth Connection

#### **HID Connection Method**

**Step 1**.On your devices, navigate to Bluetooth settings. For Android devices, tap the search button to begin searching for Bluetooth devices.

**Step 2.**Ensure R7 is powered on then scan the **HID mode bar code** in this context, and restart R7.

**Step 3**.On your devices the R7 will appear underneath the list of available devices. Check that the S/N in brackets matches the S/N on the back of the R7, and tap to connect.

Step 4. Once the R7 connects, the top indicator blue light will be always on.

#### **SPP Connection Method**

**Step 1**.Install SPP demo form the App Store or develop with SPP. Open the Bluetooth settings on your device. For Android devices, tap the search button to begin searching for Bluetooth devices.

**Step 2**.Ensure R7 is powered on then scan the **SPP mode bar code** in this context, and restart the R7.

Step 3.On your devices the R7 will appear underneath the list of available devices. Check that the S/N in brackets matches the S/N on the back of the R7, then tap to connect.Step 4. Once the R7 connects, the top indicator blue light will be always on.

#### Method III: Voluntary Pair

**Step 1.** Check the Bluetooth Mac address of your phone.

**Step 2**. Generate <sup>1</sup>an barcode with the 'barcode studio' or other software, print it out or

<sup>&</sup>lt;sup>1</sup> U2 has a built-in application to show the barcode which called the 'BT Pair'.

show it in your phone(the barcode value : '\$BT#MAC '+' MAC address').

For example. The mac is 3C:2D:4E:13:4C, the barcode value would be \$BT#MAC3C2D4E134C.

- **Step 3.** Scan this barcode by ring scanner to pair in voluntary.
- **Step 4.** 'Agree' in your phone.

## **Common Settings**

## Normal setting

Obtain the information(version/battery percentage) of the ring scanner:



Initialization:



\$SYS#INIT

Unpaired:



\$BT#CLEAR

Add the suffix "Enter":



**\$ENTER#ON** Cancel the suffix "Enter":



Normal (stop offline state):

\_





Upload data:



%#TXMEM

Clear the storage:



Upload amount:



%#+TCNT

Caps Lock:



## 2.4GHz Connection Channel







## **Bluetooth Transmission Mode**

Bluetooth HID Mode



\$BT#HID

Bluetooth SPP Mode



\$BT#SPP

**Sleep Extension Time** 



\$RF#ST01



\$RF#ST10





\$RF#ST05

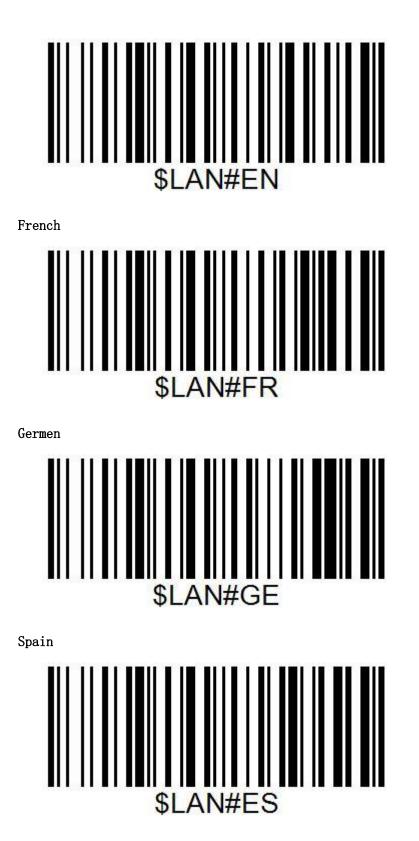


\$RF#ST30

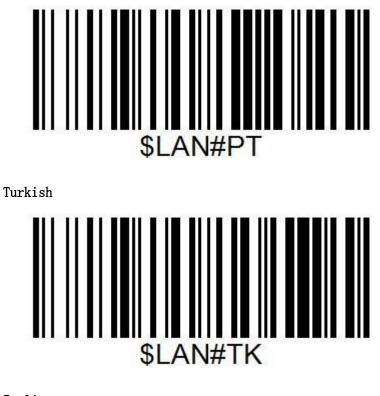


**Keyboard Language** 

Scan one of the following bar codes to set different countries' keyboard language. English(US)



Portuguese



Italian



### **Customize setting**

The ring scanner offer two custom key ,you can customize the key value as you need .

#### Example

Power key(KEY0) default :none (long-press : power off) Custom key(KEY1) default :none For example : Set the custom key value as "Backspace" The steps:

- 1. Please scan the '\$SCAN#1' at first to set the key value of custom button
- 2. Read the <u>numeric barcode</u> "1008" in follow, its represent for Backspace
- 3. Scan the numeric bar code **1,0,0,8** one by one,

4. Scan the bar code '**\$KEY0#1'** to enable the key value of the custom key" Tips:Backspace-1008,Space-1032,Tab-1009,Enter-1013. If you need more setting ,Please contact the supplier or manufacturer.<sup>2</sup>

#### Key Value Setting

Set the value of 'power button'



Enable/Disable the customer button setting

Enable the key value of the power button



Enable the key value of the custom key



Set the value of 'custom button'



disable the key value of the power button



disable the key value of the custom key



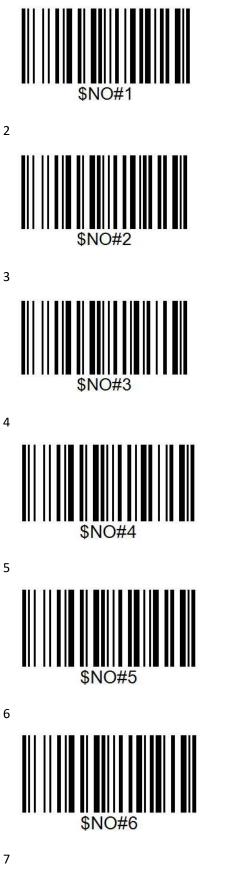
Numeric	bar code
<b>Humene</b>	bui couc





1

<sup>&</sup>lt;sup>2</sup> Refer to the Appendix 3 ASCII Conversion Chart – ASCII Value.





## Symbologies

#### **All Symbologies**

If you want to decode all the symbologies allowable for your scanner, scan the *Enable All Code Types* code. If on the other hand, you want to decode only a particular symbologies , scan *Disable All Code Types* followed by the On symbol for that particular symbology.

Note. Scanner performance may reduce by scanning *Enable All Code Types*. Only scan *Enable All Code Types* when needed.



## **Disable All Code Types**

## 

## Enable All Code Types

UPC-A

Scan one of the following bar codes to enable or disable UPC-A





UPC-E

Scan one of the following bar codes to enable or disable UPC-E





Disable UPC-E

#### UPC-E1

Scan one of the following bar codes to enable or disable UPC-E1. Note. UPC-E1 is not a UCC(Uniform Code Concil) approved symbology





\*Disable UPC-E1

#### EAN-8/JAN-8

Scan one of the following bar codes to enable or disable EAN-8/JAN-8



#### EAN-13/JAN-13

Scan one of the following bar codes to enable or disable EAN-13/JAN-13





#### **Bookland EAN**

Scan one of the following bar codes to enable or disable Bookland EAN





\*Disable Bookland EAN

#### **ISSN EAN**

Scan one of the following bar codes to enable or disable ISSN EAN



## **Enable ISSN EAN**



#### Code 128

Scan one of the following bar codes to enable or disable Code 128



\*Enable Code 128





GS1-128

Scan one of the following bar codes to enable or disable GS1-128





#### **ISBT 128**

ISBT 128 is a variant of Code 128 used in the blood bank industry. Scan one of the following bar codes to enable or disable ISBT 128.



# 

## **Disable ISBT 128**

Code 39

Scan one of the following bar codes to enable or disable Code 39



\*Enable Code 39



#### Code 39 Full ASCII Conversion

Code 39 Full ASCII is a variant of Code 39 which pairs characters to encode the full ASCII character set. Scan one of following bar codes to enable or disable Code39 Full ASCII.



### Enable Code 39 Full ASCII



\*Disable Code 39 Full ASCII

#### Code 93

Scan one of the following bar codes to enable or disable Code 93



\*Enable Code 93



## Disable Code 93

Code 11

Scan one of the following bar codes to enable or disable Code 11



Enable Code 11



\*Disable Code 11

#### Interleaved 2 of 5(ITF)

Scan one of the following bar codes to enable or disable Interleaved 2 of 5(ITF)



Enable Interleaved 2 of 5



\*Disable Interleaved 2 of 5

#### Discrete 2 of 5(DTF)

Scan one of the following bar codes to enable or disable Discrete 2 of 5(DTF)



Enable Discrete 2 of 5



\*Disable Discrete 2 of 5

Codabar

Scan one of the following bar codes to enable or disable Codabar





## Disable Codabar

Scan one of the following bar codes to select whether to transmit upper case or lower case Codabar start/stop characters.



Lower Case



#### MSI

Scan one of the following bar codes to enable or disable MSI



**Enable MSI** 



#### Chinese 2 of 5

Scan one of the following bar codes to enable or disable Chinese 2 of 5



## Enable Chinese 2 of 5



#### Matrix 2 of 5

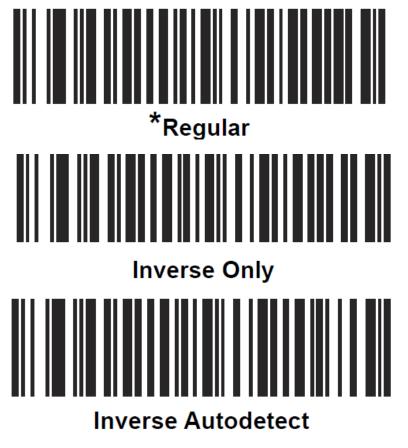
Scan one of the following bar codes to enable or disable Matrix 2 of 5





#### **Inverse 1D**

Scan one of the following bar codes to set 1D inverse decoder setting: **Regular Only** – The engine decodes regular 1D bar codes only. **Inverse Only** – The engine decodes inverse 1D bar codes only. **Inverse Autodetect** - The engine decodes both regular and inverse 1D bar codes.



#### **Composite CC-C**

Scan one of the following bar codes to enable or disable Composite bar codes of type CC-C.





#### Composite CC-A/B

Scan one of the following bar codes to enable or disable Composite bar codes of type CC-A/B.





#### **Composite TLC-39**

Scan one of the following bar codes to enable or disable Composite bar codes of type TLC-39





\*Disable TLC39

#### PDF-417

Scan one of the following bar codes to enable or disable PDF-417

# \*Enable PDF417 Disable PDF417

Micro PDF-417

Scan one of the following bar codes to enable or disable Micro PDF-417



## Enable MicroPDF417

## 

## \*Disable MicroPDF417

#### Data Matrix

Scan one of the following bar codes to enable or disable Data Matrix.





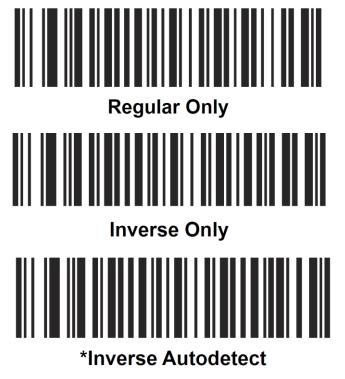
## **Disable Data Matrix**

Scan one of the following bar codes to select the Data Matrix inverse decoder setting:

Regular Only – The engine decodes regular Data Matrix codes only.

Inverse Only – The engine decodes inverse Data Matrix codes only.

Inverse Autodetect - The engine decodes both regular and inverse Data Matrix bar codes.



#### Maxi Code

Scan one of the following bar codes to enable or disable Maxi Code



## **Enable Maxicode**

# \*Disable Maxicode

#### QR-CODE

Scan one of the following bar codes to enable or disable QR-CODE



## Disable QR Code

#### MicroQR

Scan one of the following bar codes to enable or disable MicroQR





#### Aztec

Scan one of the following bar codes to enable or disable Aztec





Han Xin

Scan one of the following bar codes to enable or disable Han Xin



#### Enable Han Xin



## \*Disable Han Xin

#### Suffix & Prefix

Prefix Data Suffix

You can append a prefix and/or one or two suffixes to scan data for use in data editing. To set a value for a prefix or suffix , scan one of the following bar codes, and then scan four bar codes from <u>Appendix 1</u> that correspond to that value. See <u>ASCII Conversion Chart</u> for four-digit codes.

To Add a Prefix or Suffix

Note. To use Prefix/Suffix values, first set the Scan Data Transmission Format on page30



Scan Prefix



Scan Suffix 1



Scan Suffix 2



## **Data Format Cancel**

Scan Data Transmission Format

To change the scan data format, scan one of the following bar codes corresponding to the desired format.







#### Example.

#### Add HT(Tab) suffix:

Restore the scanner (if necessary)



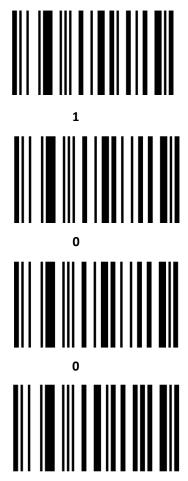
Set the suffix value as '

as 'TAB', please scan the following barcode in sequence



Add suffix1

**ASCII Value** 





**Resetting the Factory Default** 



## **Set Factory Defaults**

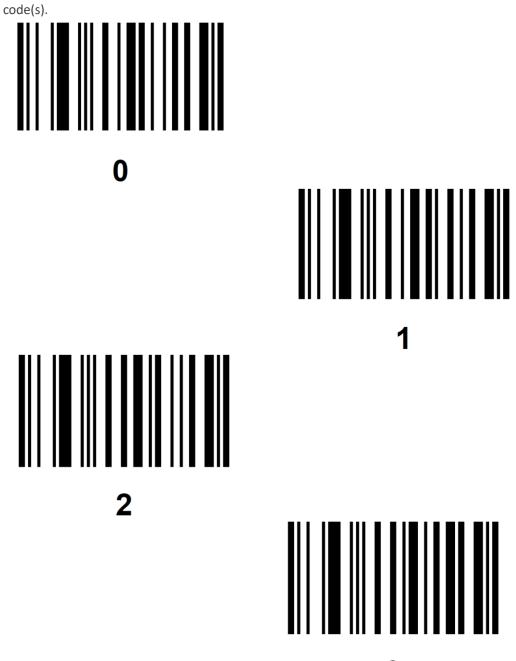
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## **Appendix 1 Numeric Bar Codes**

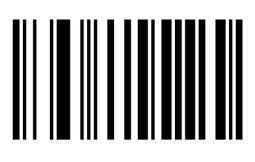
For parameters requiring specific numeric values, scan the appropriately numbered bar



3

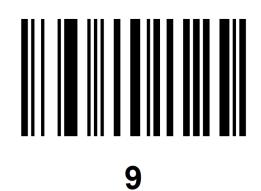




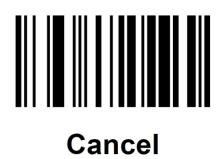








Cancel



## Appendix 2 ASCII Conversion Chart

Character	ASCII	HEX	description
	Value		
BS	1008	08	Backspace
HT	1009	09	Tab
CR	1013	13	Enter
Caps Lock	1016	16	Caps Lock
Space	1032	32	Space
!	1033	33	The following are characters
" "	1034	34	
#	1035	35	
\$	1036	36	
%	1037	37	
&	1038	38	
•	1039	38	
(	1040	40	
)	1041	41	
*	1042	42	
+	1043	43	
,	1044	44	
_	1045	45	
•	1046	46	
/	1047	47	
0	1048	48	
1	1049	49	
2	1050	50	
3	1051	51	
4	1052	52	
5	1053	53	
6	1054	54	
7	1055	55	
8	1056	56	
9	1057	57	
•	1058	58	
;	1059	59	
<	1060	60	
=	1061	61	
>	1062	62	
?	1063	63	
@	1064	64	
А	1065	65	

B C	1066	66	
1.1	1067	67	
D	1068	68	
E	1069	69	
F	1009	70	
G G	1070	70	
	1071	71 72	
H			
I	1073	73	
J	1074	74	
K	1075	75	
L	1076	76	
M	1077	77	
N	1078	78	
0	1079	79	
Р	1080	80	
Q	1081	81	
R	1082	82	
S	1083	83	
Т	1084	84	
U	1085	85	
V	1086	86	
W	1087	87	
Х	1088	88	
Y	1089	89	
Ζ	1090	90	
[	1091	91	
$\backslash$	1092	92	
]	1093	93	
^	1094	94	
_	1095	95	
`	1096	96	
"a"	1097	97	
"b"	1098	98	
"с"	1099	99	
"d"	1100	100	
"e"	1101	101	
"f"	1102	102	
"g"	1103	103	
"h"	1104	104	
"i"	1105	105	
" j"	1106	106	
"k"	1107	107	
"1"	1108	108	

	1		
"m"	1109	109	
"n"	1110	110	
"o"	1111	111	
"p"	1112	112	
"q"	1113	113	
"r"	1114	114	
"s"	1115	115	
"t"	1116	116	
"u"	1117	117	
" <sub>V</sub> "	1118	118	
" <sub>W</sub> "	1119	119	
" <sub>X</sub> "	1120	120	
"у"	1121	121	
"z"	1122	122	
{	1123	123	
	1124	124	
}	1125	125	
~	1126	126	