

MS632 Wireless Ring Scanner User Guide



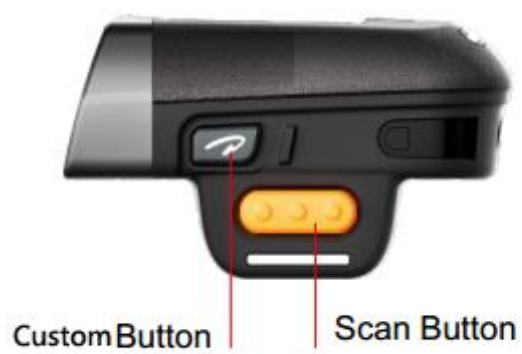
Appearance

Font size view

Scan Window



Side view



Back view



Back View



Buzzer/LED lights prompt

State

description

Blue light blinking slowly	Awaiting Bluetooth connection
Solid blue	Bluetooth link successful (U2)
Red light blink 3 times(w/buzzer ringing 5 times)	Low battery
Solid red	In charge
Red light goes out	Charging completed

The tail indicator

Blue light flashing continuously(w/buzzer ringing)	2.4G mode awaiting connection
Green light (w/buzzer ringing)	scanning success
Red light (w/buzzer ringing 4 times)	scanning abnormal/ paired failure
All light flashing (w/buzzer ringing 3 times)	power on

GET 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

Connection

Method I :2.4GHz wireless RF Connection

- Step 1.** Ensure MS632 is powered on , and scan any bar codes of the 2.4GHz Connection channel(Page 7-8). 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 MS632 is powered on then scan the **HID mode bar code** in this context, and restart MS632.
- Step 3.**On your devices the MS632 will appear underneath the list of available devices. Check that the S/N in brackets matches the S/N on the back of the MS632, and tap to connect.
- Step 4.** Once the MS632 connects, the top indicator blue light will be always on.

SPP Connection Method

- Step 1.** Install SPP demo from 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 MS632 is powered on then scan the **SPP mode bar code** in this context, and restart the MS632.
- Step 3.** On your devices the MS632 will appear underneath the list of available devices. Check that the S/N in brackets matches the S/N on the back of the MS632, then tap to connect.
- Step 4.** Once the MS632 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 ¹an barcode with the 'barcode studio' or other software, print it out or 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:



\$SW#VER

Initialization:



\$SYS#INIT

Unpaired:



\$BT#CLEAR

Add the suffix “Enter”:



\$ENTER#ON

Cancel the suffix “Enter”:



\$ENTER#NO

Normal (stop offline state):



%#NORMD

Offline mode(start offline state):



%#INVMD

Upload data:



%#TXMEM

Clear the storage:



%#*NEW*

Upload amount:



%#+TCNT

2.4GHz Connection channel (using USB Dongle)

频道 1/Channel 1



\$RF#CH01

频道 2/Channel 2



\$RF#CH02

频道 3/Channel 3



\$RF#CH03

频道 4/Channel 4



\$RF#CH04

频道 5/Channel 5



\$RF#CH05

频道 6/Channel 6



\$RF#CH06

频道 7/Channel 7



\$RF#CH07

频道 8/Channel 8



\$RF#CH08

频道 9/Channel 9



\$RF#CH09

频道 10/Channel 10



\$RF#CH010

频道 11/Channel 11



\$RF#CH011

频道 12/Channel 12



\$RF#CH012

频道 13/Channel 13



\$RF#CH01

频道 14/Channel 14



\$RF#CH014

频道 15/Channel 15



\$RF#CH015

频道 16/Channel 16



\$RF#CH016

频道 17/Channel 17



\$RF#CH017

频道 18/Channel 18



\$RF#CH018

频道 19/Channel 19



\$RF#CH019

频道 20/Channel 20



\$RF#CH020

1. Get your computer ready, 2.4g receiver, ring scanner.
2. Press the power button .
3. Scan the 2.4G of any channel bar code on the instruction manual (the adjacent working environment should not use the same channel), and the ring will emit continuous beeping and 2.4G to wait for the connection status.
4. Insert the 2.4G receiver into the USB interface of the computer, and the buzzer will stop and the connection will be completed.
5. Scan for tests.

Bluetooth transmission mode

Bluetooth HID mode



\$BT#HID

Bluetooth SPP mode



\$BT#SPP

Time before Bluetooth sleep

1 分钟



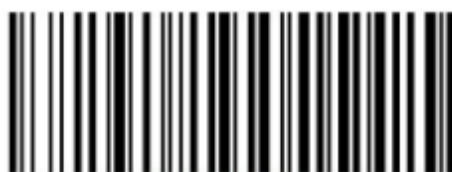
\$RF#ST01

5 分钟



\$RF#ST05

10 分钟



\$RF#ST10

30 分钟



\$RF#ST30

60 分钟



\$RF#ST60

永不休眠



\$RF#ST00

Customize setting

Example

Power key (KEY0) default :power on/off

Custom key (KEY1) default :none

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

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 numeric barcode "**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. ²

Key Value Setting

Set the value of 'power button'



Set the value of 'custom button'



Enable/Disable the customer button setting

Enable the key value of the power button



disable the key value of the power button



Enable the key value of the custom key



disable the key value of the custom key



² Refer to the Appendix 3 ASCII Conversion Chart – ASCII Value.

Numeric bar code for key value

0



1



2



3



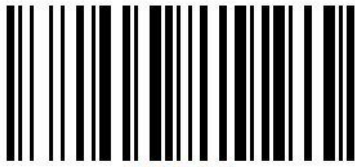
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5

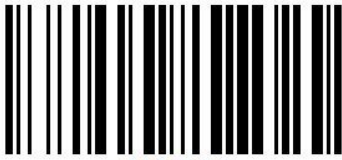


6



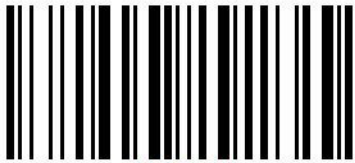
\$NO#6

7



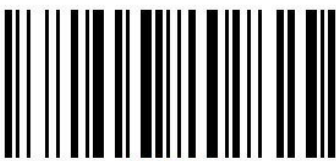
\$NO#7

8



\$NO#8

9



\$NO#9

Symbologies

All Symbologies

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

Note. Scanner performance may reduce by scanning ***All Symbologies On***. Only scan ***All Symbologies On*** when needed.



ALLENA1.

All Symbologies On



ALLENA0.

All Symbologies Off

Codabar



CBRENA1.

*** On**



CBRENA0.

Off

Code 39

Enable/disable



C39ENA1.

*** On**



C39ENA0.

Off

Code 39 Full ASCII On/ Off



C39ASC1.
Full ASCII On



C39ASC0.
* Full ASCII Off

Interleaved 2 of 5 On/Off



I25ENA1.
* On



I25ENA0.
Off

NEC 2 of 5 On/Off



N25ENA1.
* On



N25ENA0.
Off

Code 93 On/Off



C93ENA1.

*** On**



C93ENA0.

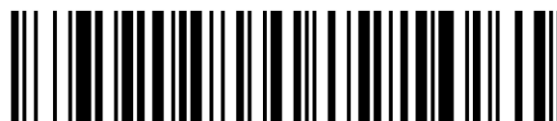
Off

Straight 2 of 5 On/Off



R25ENA1.

On



R25ENA0.

*** Off**

Straight 2 of 5 IATA On/Off



A25ENA1.

On



A25ENA0.

*** Off**

Matrix 2 of 5 On/Off



X25ENA1.

On



X25ENA0.

*** Off**

Code 11 On/Off



C11ENA1.

On



C11ENA0.

*** Off**

Code 128 On/Off



128ENA1.

*** On**



128ENA0.

Off

GS1-128 On/Off



GS1ENA1.

*** On**



GS1ENA0.
Off

UPC-A On/Off



UPAENA1.
* On



UPBENA0.
Off

UPC-E0 On/Off

Most U.P.C bar codes lead with 0 number system. To read these codes, use the UPC-E0 On selection. If you need to read codes that lead with the 1 number system, use UPC-E1(page). Default = On.



UPEEN01.
* UPC-E0 On



UPEEN00.
UPC-E0 Off

UPC-E1 On/Off

Most U.P.C bar codes lead with 0 number system. For these bar codes, use page. If you need to read codes that lead with the 1 number system, use UPC-E1 on selection. Default = Off.



UPEEN11.
UPC-E1 On



UPEEN10.

*** UPC-E1 Off**

EAN/JAN-13 On/Off



E13ENA1.

*** On**



E13ENA0.

Off

EAN/JAN-8 On/Off



EA8ENA1.

*** On**



EA8ENA0.

Off

MSI On/Off



MSIENA1.

On



MSIENA0.

*** Off**

Codablock A On/Off



CBAENA1.

On



CBAENA0.

*** Off**

Codablock F On/Off



CBFENA1.

On



CBFENA0.

*** Off**

PDF 417



PDFENA1.

*** On**



PDFENA0.

Off

QR Code On/Off

This selection applies to both QR Code and Micro QR Code



QRCENA1.

*** On**



QRCENA0.

Off

Data Matrix



IDMENA1.

*** On**



IDMENA0.

Off

Maxi Code On/Off



MAXENA1.

On



MAXENA0.

*** Off**

Aztec Code On/Off



AZTENA1.

*** On**



AZTENA0.

Off

Chinese Sensible (Han Xin)Code



HX_ENA1.

On



HX_ENA0.

* Off

Suffix &Prefix

Prefix	Data	Suffix
--------	------	--------

To Add a Prefix or Suffix

Step 1. Scan the **Add Prefix** or **Add Suffix** symbol

Step 2. Scan the 2 hex digits from the [Programming Chart](#) inside the back cover of this manual or scan **9,9** for all symbologies.

Step 3. Determine the hex value from the [ASCII Conversion Chart](#), beginning on page30, for the prefix or suffix you wish to enter.

Step 4. Scan the 2 digit hex value from the [Programming Chart](#) inside the back cover of this manual

Step 5. Repeat Steps 4 and 5 for every prefix or suffix character.

Step 6. Scan **Save** to exit and save , or scan **Discard** to exit without saving.

Repeat Steps 1-5 to add a prefix or suffix for another symbology.



PREBK2.

Add Prefix



PRECL2.

Clear One Prefix



PRECA2.

Clear All Prefixes



SUFBK2.

Add Suffix



SUFCL2.

Clear One Suffix



SUFCA2.

Clear All Suffixes

Example.

Add/Clear suffix: 'TAB' with N3680 scanner.

Add suffix 'TAB'

1. Scan **Add Suffix**



Add Suffix

2. Scan 9,9 from the Programming Chart inside the back cover of this manual to apply this suffix to all symbologies.



9



9

3. Scan 0 ,9 from the Programming Chart inside the back cover of this manual. This corresponds with the hex value for a horizontal tab, shown in the [ASCII Conversion Chart](#), beginning on page 31.



0



9

4. Scan **Save** ,or scan **Discard** to exit without saving.



Save

Clear suffix 'TAB'

1. Scan the bar code to clear any suffix



2. Suffix : TAB



0



9

3. Save



Resetting the Factory Default

MS632-N3680



DEFOVR.

Remove Custom Defaults



DEFAULT.

Activate Defaults

Baud rate(9600):

MS632- N3680



232BAD5.

9600

The pages of this manual are subject to change without prior notice.

Appendix 1 Programming Chart A



K0K

0



K1K

1



K2K

2



K3K

3



K4K

4



K5K

5



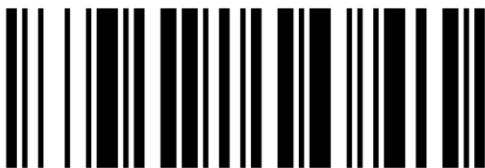
K6K

6



K7K

7



K8K

8



K9K

9

Appendix 2 Programming Chart B



KAK

A



KBK

B



KCK

C



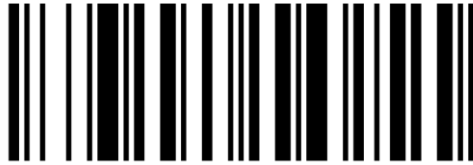
KDK

D



KEK

E



KFK

F



MNUSAV.

Save



MNUABT.

Discard



RESET_.

Reset

If you make an error while scanning the letters or digits(before scanning Save), scan the correct letters or digits and **Save** again.

Appendix 3 ASCII Conversion Chart

Printable Characters								
DEC	HEX	Character	DEC	HEX	Character	DEC	HEX	Character
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

Printable Characters (Continued)								
DEC	HEX	Character	DEC	HEX	Character	DEC	HEX	Character
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	_	127	7F	ÿ

Character	ASCII Value	HEX	description
BS	1008	08	Backspace
HT	1009	09	换行 Tab
CR	1013	0A	回车 Enter
Space	1032	20	空格 space