M7 SETUP Manual

Connection Mode

Working via USB cable

Get Started: Connect scanner with your device via USB cable. If you use US keyboard, it's a plug and play model. If you use other type of keyboard , please refer to below "keyboard language" to configure the keyboard language before use it.

Working via Bluetooth

Get Started: US Keyboard is configured by default. After you pair the bluetooth with your device, you can start to use it. If you use other type of keyboard ,please configure the keyboard language before you use it.

Low voltage Alarm: Scanner will make 2x beeps to remind you that it's under low voltage. Plug the USB cable to charge power for it.

Firmware Version:

Read below command barcode to check scanner firmware version.

Check Scanner Version

Below programming barcodes are applied for version ≥ NT_ZNCWBSDk8815

Barcode Programming

Netum barcode scanners are factory programmed for the most common terminal and communications settings. If you need to change these settings, programming is accomplished by scanning the bar codes in this guide. An asterisk (*) next to an option indicates the default setting.

Bluetooth Connection

1. Pairing with windows XP or Windows 7/8/10

1) Power on the scanner , a few seconds later the blue indicator will keep flashing.
2) Enter the 'Control Panel' - 'Devices and Printers' - 'Add a device' – select, 'Bluetooth' to add the device to your computer
3) Click 'Next', the scanner will beep to indicate a successful pairing, and the light will turn to solid blue.

2. Android: Connect Android Device in Basic Mode

1) Power on the scanner. Make sure the scanner is discoverable (unpaired). A few seconds later the blue indicator will keep flashing.
2) Touch Home | Menu | Settings | Wireless & Networks | Bluetooth settings
3) Make sure the device has Bluetooth "On". Scan for devices.
4) In the list of found devices, select "Netum Bluetooth". Tap Pair.
5) The scanner will connect to the Android device.
6) The scanner will beep once after it has connected and is ready to scan barcodes

3. Pairing with your IOS device

1) Power on the scanner. Make sure the scanner is discoverable (unpaired). A few seconds later the blue indicator will keep flashing.
2) Click on "Bluetooth" in the left column. Your IOS device will automatically start searching for any Bluetooth Devices in the area.
3) Once you have identified the "Netum Bluetooth" on the screen, tap on it and you will automatically be connected. The scanner's LED light will turn to solid blue.

Operation mode

A) BT HID Mode (Default)*

No Software installation needed, connects to most devices with bluetooth or USB interface. In this mode, the scanner interacts with the device like a keyboard. Therefore, the scanner will work with Safari, Notes, and any other applications that supports an active cursor.

BT HID Mode

Note: this command barcode is only apply for Bluetooth Wireless Mode

Keyboard Language

In order to let scanner upload the codes in a correct way, you have to configure the keyboard language before you use it.
For example
If you use French Keyboard, just scan barcode of "French Keyboard", after that scanner will upload barcodes according to French keyboard layout. American Keyboard is set by default, if you use a US keyboard you can just skip this part.

American Keyboard *

Portugal Keyboard

French Keyboard

Spanish Keyboard

Germany Keyboard

Turkey Q Keyboard

Italy Keyboard

Turkey F Keyboard

B) Application Mode (SPP)

For Android or Windows only Software installation is required.

BT SPP Mode

Note: this command is only apply for Bluetooth Wireless Mode

Scan Mode

Trigger Mode (Default)

Scanning this bar code will enable the scanner to enter manual trigger mode.
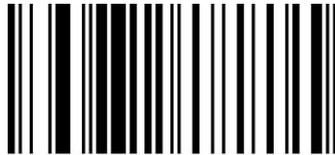
013300
Trigger Mode

Continuous Mode

This mode enables the engine to scan/capture, decode and transmit over and over again.

013304
Continuous Mode

Auto Sense Mode

Scanning this bar code will enable the scanner to enter auto sense mode.

02311
Auto Sense On

02310
Auto Sense Off

Data Uploading Mode

If you are heading for a working area which lies outside the signal range, you may activate the offline mode of the scanner, following the steps described below. Under this enhanced offline mode, all scanned data will be stored directly into the buffer memory of the device. Furthermore, the data entries will be permanently saved in the buffer memory prior to the manual upload into the working station, so that you may upload them time and again to your liking.

1). By scanning the following barcode, the offline mode will be activated

Offline Mode

2). By scanning the following barcode, all data in the buffer memory will be deleted

Clear All Memory

3).By scanning the following barcode, all data entries in the buffer memory can be manually uploaded after reconnecting to the working station (only in offline mode).

Uploading the Data

4). By scanning the following barcode, the gross quantity of the uploaded data entries will be summarised (only in offline mode).

Summarising of uploaded data entry quantity

5). By scanning the following barcode, the device leaves the offline mode, instant uploading mode will be activated. (By default)

Instant uploading mode

Notes: Command barcodes from Working mode section are only applied for Bluetooth wireless mode,

Terminator

The scanner provides a shortcut for setting the terminating character suffix to CR or CRLF and enabling it by
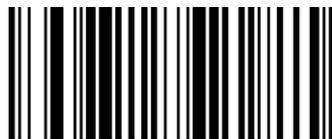scanning the appropriate barcode below.

0212@\r
CR*

0212@\n
LF*

0213@\r\n
CR+LF

0210@
NONE

0212@
TAB

Idle Time

Scanner will stay awake during the idle time that you configure for it and it will turn to sleep if you haven't used it during the whole idle time.

30 s	6 Mins
12 Mins	**30** Mins
1Hour	2Hours

IOS Keyboard POP UP/HIDE

During the scanning IOS keyboard can be hided or popped up by scanning below command barcode.

IOS Keyboard POP UP/HIDE

Beeper

Enable/Disable scanner to beep to indicate successful scan.
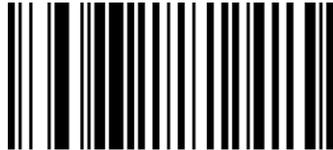
BEEP ON

BEEP OFF

Restore factory default

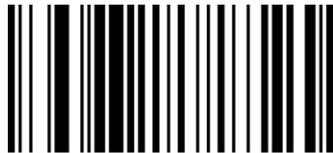Scanning the following barcodes one by one to restore the scanner to factory defaults. (Four steps included)

1. Factory Restore

2. Serial Port

3. Baud Rate 19200

4. Enter+LF

Transmit Code ID Character

A code ID character identifies the code type of a scanned bar code. This can be useful when decoding more than one code type. The code ID character is inserted between the prefix character (if selected) and the decoded symbol. (Refer to Appendix A)

01400
Disable Code ID*

```
║║║ ║ ║║║║║ ║║║ ║ ║║║
```
01401

Enabled Code ID Prefix

```
║║║║ ║║║║║ ║║║ ║ ║║
```
01402
Enabled Code ID Prefix

Common barcode Function

Enable/Disable EAN-8
To enable or disable EAN-8, scan the appropriate bar code below.

```
║║║ ║ ║║║║║║ ║║ ║ ║║
```
00371
Enable EAN-8*

```
║║║ ║ ║║║║║ ║ ║║║ ║║
```
00370
Disable EAN-8

```
║║║ ║ ║║║║║ ║║║ ║ ║║
```
00571
EAN-8 Transit Check Digit*

```
||||||||||||||||||||||
```
00570

EAN-8 Do Not Transit Check Digit

Enable/Disable EAN-13

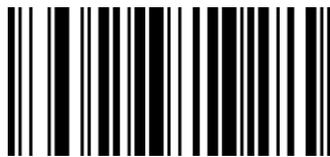To enable or disable EAN-13, scan the appropriate bar code below.

```
||||||||||||||||||||||
```
00361

Enable EAN-13*
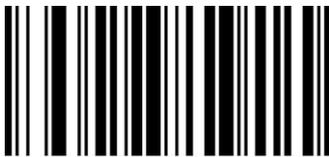
```
||||||||||||||||||||||
```
00360

Disable EAN-13

```
||||||||||||||||||||||
```
00461

EAN-13 Transit Check Digit *

```
||||||||||||||||||||||
```
00460

EAN-13 Do Not Transit Check Digit

Add-On Code

And EAN-8/EAN-13 Barcode can be augmented with a two-digit or five-digit add-on code form a new one.

In the example below, the part surrounded by blue line is an EAN-8 barcode while the part circled by red line is add-on code. " Disable Add-on Code" is configured by default.

```
|||||||||||||||||||     ||||||||||              |||||||||||||||||||||     |||||||
1 234567 890128     3 4 5 6 7                 1 234567 890128     3 4
```

EAN /UPC Add-On 2 or 5

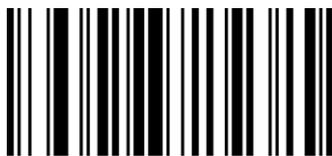To enable or disable EAN/UPC add on 2 or 5 digts scan the appropriate barcode below.

||||||| |||||||||| ||||||

00551
Enable add-on 2 digits

||||||| |||||||||| ||||||

00552
Enable add-on 5 digits

||||||| |||||||||| ||||||

00553
Enable add -on 2 or 5 digits

||||||| |||||||||| ||||||

00550
Disable add-on 2 or 5 digits

Enable/Disable Convert EAN-13 to ISBN

To enable or disable convert EAN-13 to ISBN, scan the appropriate barcode below.

||||||| |||||||||| ||||||

00481
Enable EAN-13 Transfer to ISBN

||||||| |||||||||| ||||||

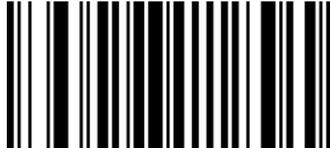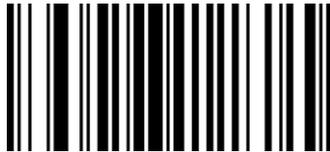00480
Disable EAN-13 Transfer to ISBN*

Enable/Disable Convert EAN-13 to ISSN

To enable or disable convert EAN-13 to ISSN, scan the appropriate barcode below.

01501
Enable EAN-13 Transfer to ISSN

01500
Disable EAN-13 Transfer to ISSN*

Enable/Disable Codabar

To enable or disable codabar, scan the appropriate barcode below.

00851
Enable Codabar*

00850
Disable Codabar

Enable/Disable Code 11

To enable or disable Code 11, scan the appropriate bar code below.

01261
Enable Code 11*

```
||| ||| || ||| || ||| ||||
```

01260
Disable Code 11

Enable/Disable Code 39

To enable or disable Code 39, scan the appropriate bar code below.

```
||| || |||| |||||| ||||
```

00221
Enable Code 39*

```
|| | ||| ||||| ||||||
```
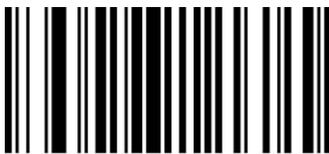
00220
Disable Code 39

Enable/Disable Code 39 Full ASCII

Code 39 Full ASCII is a variant of Code 39 which pairs characters to encode the full ASCII character set.

```
||| || ||||||||| || ||
```
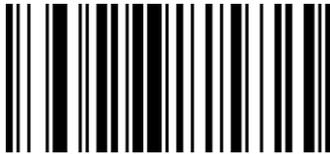
00231

Enable Full ASCII*

```
||| || ||||| ||||| |||
```

00230
Disable Full ASCII

Enable/Disable Code 93

To enable or disable Code 93, scan the appropriate bar code below.

```
||| ||| ||||||| |||| || ||
```
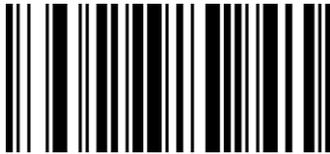
00621
Enable Code 93*

||||| |||| ||| ||||| ||| |||||

00620
Disable Code 93

Enable/Disable Code 128

To enable or disable Code 93, scan the appropriate bar code below.

||||| |||| ||| ||||| ||| |||||

00691

Enable Code 128*

||||| |||| ||| ||||| ||| |||||
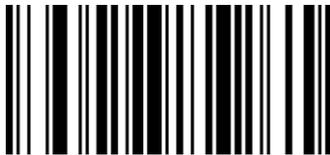
00690
Disable Code 128

Enable/Disable Code 32

To enable or disable Code 93, scan the appropriate bar code below.

||||| |||| ||| ||||| ||| |||||

01950
Disable Code 32*

||||| |||| ||| ||||| ||| |||||

01951
Enable Code 32

Enable/Disable GS1 DataBar Limited (RSS Limited)

To enable or disable GS1 DataBar Limited, scan the appropriate bar code below.

||||||||||||||||||||||||
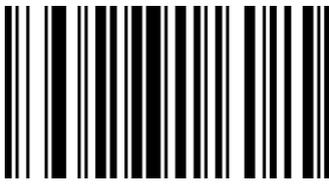
01771
Enable RSS Limited

||||||||||||||||||||||||
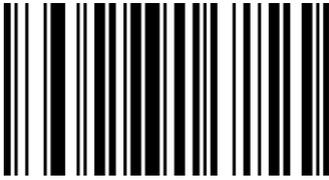
01770
Disable RSS Limited

GS1 DataBar Ominidirectional (RSS Ominidirectional)

To enable or disable GS1 DataBar Ominidirectional, scan the appropriate bar code below.

||||||||||||||||||||||||

01761
Enable RSS Ominidirectional

||||||||||||||||||||||||
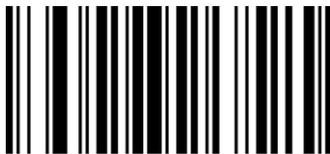
01760
Disable RSS Ominidirectional

Enable/Disable UPC-A

To enable or disable UPC-A, scan the appropriate bar code below.

||||||||||||||||||||||||

00341
Enable UPC-A*

||||||||||||||||||||||||

00340
Disable UPC-A

00241
Enable Transit Check Digit *
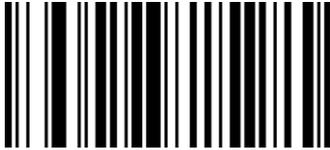
00240
Disable Transit Check Digit

Enable/Disable Convert UPC-A to EAN-13

To enable or disable Convert UPC-A to EAN-13, scan the appropriate bar code below.

00391
Enabled UPC-A to EAN-13

00390
Disable UPC-A to EAN-13

Enable/Disable UPC-E

To enable or disable UPC-E, scan the appropriate bar code below.

00351
Enable UPC-E

00350
Disable UPC-E

Enable/Disable Convert UPC-E to UPC-A

To enable or disable Convert UPC-E to UPC-A, scan the appropriate bar code below.

||||| ||| ||| ||| ||||||

00381
Enable Convert UPC-E to UPC-A

||||| ||| ||| ||| ||||||

00380
Disable Convert UPC-E to UPC-A

Enable/Disable Interleaved 2 of 5

To enable or disable Interleaved 2 of 5, scan the appropriate bar code below.

||||| ||| ||| ||| ||||||
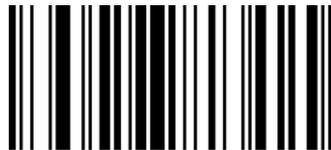
00961
Enabled Interleaved 2 of 5

||||| ||| ||| ||| ||||||

00960
Disabled Interleaved 2 of 5

Enable/Disable Industrial 2 of 5

To enable or disable Industrial 2 of 5, scan the appropriate bar code below.

||||| ||| ||| ||| ||||||

01061
Enable Industrial 2 of 5

01060
Disable Industrial 2 of 5

Enable/Disable Standard 2 of 5
To enable or disable Standard 2 of 5, scan the appropriate bar code below.

01871
Enable Standard 2 of 5
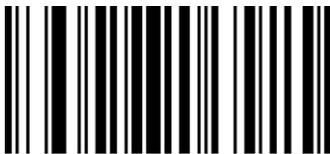
01870
Disable Standard 2 of 5

Enable/Disable Matrix 2 of 5
To enable or disable Matrix 2 of 5, scan the appropriate bar code below.

01461
Enable Matrix 2 of 5

Enable/Diable MSI
To enable or disable MSI, scan the appropriate bar code below.

01151
Enable MSI

01150
Disable MSI

Enable /Disable Plessey

To enable or disable Plessey, scan the appropriate bar code below.

01161
Enable Plessey
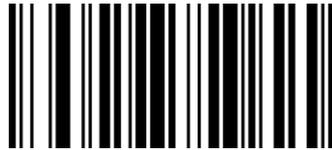
01160
Disable Plessey

Hide Prefix or suffix digits

The start/middle/end of barcode chars can be hidden. After scan below hide set barcode, scan a double-digit hexadecimal number that you want to hide char length(00~FF e.g. hide length 4, scan 0, 4).

$SCAN#5

Hide Barcode Start Chars

$SCAN#6

Hide Barcode Middle Char Start

$SCAN#7

Hide Barcode Middle Chars

$SCAN#8

Hide Barcode End Chars

Output Format

To change the Scan Data Transmission Format, scan one of the eight bar codes corresponding to the desired format.

$DATA#5

Enable Hide Barcode Start Char

$DATA#4

Enable Hide Barcode Middle Char

$DATA#3

Enable Hide Barcode End Char

To Hide chars of barcode Start/Middle/End:

Procedures

1. Scan the Hide Barcode Start / Middle Start / Middle length / End Chars symbol.

2. Determine the hex value for the length you wish to enter(hide 4 chars, scan 0,4; hide 12 chars, scan 0,C).
3. Scan the 2 digit hex value from the **Numeric Bar Codes**

4. Scan the output format to enable or cancel hide char function.

Custom prefix and suffix

Maximum 20 prefixes and 20 suffixes can be added to scan data for use in data editing. To set these values, scan a double-digit hexadecimal number (i.e. two bar codes) that corresponds to ASCII values. See the *Table 1* and Numeric Bar Codes in appendix.

To Add a Prefix or Suffix:

1. Scan command barcode of " Add Prefix" or" Add Suffix ".

2. Check the prefix or suffix hex value from the ASCII Chart.
3. Scan the 2 digit hex value from the Numeric Bar Codes

4. Repeat Steps 2 and 3 for all the prefix or suffix that you want to add.

5. Scan the output format to enable or disable prefix/suffix output.

$SCAN#2

Add Prefix

||| || ||||| | ||| ||| ||| ||| || |||
$SCAN#1

Add Suffix

||| || |||| || || || |||| ||| || |||
$SCAN#4

Clear All Prefix

||| || ||||| | ||| || |||| ||| || |||
$SCAN#3

Clear All Suffix

Numeric Bar Codes

||| || ||| || ||||| ||||| || |||
$NO#0

||| || ||| || ||||| ||||| ||| |||
$NO#1

||| || ||| || ||||| || ||| || |||
$NO#2

||| || ||| || ||||| |||| || | |||
$NO#3

||| || ||| || ||||| |||| | || |||
$NO#4

||| || ||| || ||||| ||| ||| || |||
$NO#5

||| || ||| || ||||| ||||| | |||
$NO#6

$NO#7

$NO#8
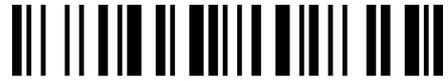
$NO#9

$NO#A

$NO#B

$NO#C

$NO#D

$NO#E

$NO#F

Output Format

To change the Scan Data Transmission Format, scan one of the eight bar codes corresponding to the desired format.

$DATA#0

*Default output format

$DATA#1

Enable Suffix output

$DATA#2

Enable Prefix output

Example on how to add normal prefix or suffix on barcode "123456789"

123456789

Add " A" and "B" as prefixes and "!" as suffix

1. Scan command barcode of " Add Prefix"
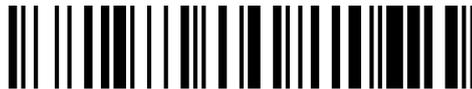
$SCAN#2

2. Check the prefix hex value from the ASCII Chart. **A- "4","1"; B-"4" "2";**

3. Scan the 2 digit hex value from the Numeric Bar Codes

$NO#4

$NO#1

$NO#4

```
|||  ||  |||  ||  ||||||  |  |||  ||  |||
```
$NO#2

4. Scan the output format to enable prefix output.

```
|||  ||  ||||  |  ||  |||  |  |||  |||  |||  |||
```
$DATA#2

Enable Prefix output

5. Scan command barcode of " Add Suffix" to add "!" as suffix.

```
|||  ||  ||||  |  ||  |  ||  |||  |  |||  ||  |||
```
$SCAN#1

Add Suffix

6. Check the suffix hex value from the ASCII Chart. **!- "2" "1"**

7. Scan the 2 digit hex value from the Numeric Bar Codes.

```
|||  ||  ||||  ||  ||||||  |  |||  ||  |||
```
$NO#2

```
|||  ||  ||||  ||  ||||||  |  |||  |||  |||
```
$NO#1

8. Scan the output format to enable suffix output.

```
|||  ||  ||||  ||  ||  |||  |  |||  |||  |||
```
$DATA#1

Enable Suffix output

9. Scan the barcode then you will get **AB123456789!**

Example on how to add Combination Key suffix for barcode "123456789"

123456789

Add "Ctrl+P" on "123456789" as suffix

1.Scan command barcode of " Add Suffix" to add "Ctrl+P" as suffix.

$SCAN#1

Add Suffix

2. Check the suffix hex value from the ASCII Chart. **Ctrl+P - "9" "7" "5" "0"**

3. Scan the 4 digits hex value from the Numeric Bar Codes.

$NO#9

$NO#7

$NO#5

$NO#0

4. Scan the output format to enable suffix output.

$DATA#1
Enable Suffix output

5. Scan " Keyboard Ctrl Combination Key"

6. Scan the barcode **123456789. (test it on Excel)**

Table 1. ASCII Character Equivalents

HEX	ASCII	HEX	ASCII	HEX	ASCII	HEX	ASCII
20H	Space	30H	0	40H	@	50H	P
21H	!	31H	1	41H	A	51H	Q
22H	"	32H	2	42H	B	52H	R
23H	#	33H	3	43H	C	53H	S
24H	$	34H	4	44H	D	54H	T
25H	%	35H	5	45H	E	55H	U
26H	&	36H	6	46H	F	56H	V
27H	'	37H	7	47H	G	57H	W
28H	(	38H	8	48H	H	58H	X
29H	)	39H	9	49H	I	59H	Y
2AH	*	3AH	:	4AH	J	5AH	Z
2BH	+	3BH	;	4BH	K	5BH	[
2CH	,	3CH	<	4CH	L	5CH	\
2DH	-	3DH	=	4DH	M	5DH	]
2EH	.	3EH	>	4EH	N	5EH	^
2FH	/	3FH	?	4FH	O	5FH	_
60H	`	70H	p	80H	F1	90H	End
61H	a	71H	q	81H	F2	91H	Page Down
62H	b	72H	r	82H	F3	92H	Right Arrow
63H	c	73H	s	83H	F4	93H	Left Arrow
64H	d	74H	t	84H	F5	94H	Down Arrow
65H	e	75H	u	85H	F6	95H	Up Arrow
66H	f	76H	v	86H	F7	96H	Print Screen
67H	g	77H	w	87H	F8	97H	*Ctrl
68H	h	78H	x	88H	F9	98H	*Shirt
69H	i	79H	y	89H	F10	99H	*Left Alt
6AH	J	7AH	z	8AH	F11	9AH	*Right Alt
6BH	k	7BH	{	8BH	F12	08H	BS
6CH	l	7CH	|	8CH	Insert	09H	HT
6DH	m	7DH	}	8DH	Home	0AH	LF
6EH	n	7EH	~	8EH	Page Up	0DH	CR
6FH	o	7FH	DEL	8FH	Delete	1BH	ESC

Table 2. Code ID

No	Code ID	Code (Barcode Type)	Barcode Type
1	@	00	ALL TYPES
2	A	01	CODE 128
3	C	03	EAN 8
4	D	04	EAN 13
5	E	05	UPC-A
6	F	06	UPC-E
7	I	09	CODE 93
8	J	0A	GS1 Omnidirectional
9	K	0B	GS1 Limited
10	M	0D	CODE 39
11	N	0E	Interleaved 2 of 5
12	O	0F	Industrial 2 of 5
13	P	10	Standard 2 of 5
14	Q	11	Matrix 2 of 5
15	S	13	MSI
16	T	14	Plessey
17	U	15	CODE 11
18	V	16	Codebar

Support

For any inquiries concerning our products, please send an email to service@gzxlscan.com, and we will respond to you as soon as possible.

Contact Information
Tel.:+0086 20-6626-0708
Email:service@gzxlscan.com
Skype: service@gzxlscan.com
Addr.:Unit 137, The Pacific Industry Park, Xintang Town,Zengcheng District, Guangzhou,China/511340

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