

NetumScan

- Wireless 1D barcode scanner
- CCD image scanner
- Supports Windows XP, Win7 / 8/10, MAC, etc.

Package Included:

1PC× Scanner

1PC × Quick Setup Guide

Firmware Version

Read below command barcode to check scanner firmware version.



\$SW#VER

Firmware Version

Factory Set

Scanning the following barcode to restore the scanner to factory defaults.



%#FSNOSB

Factory Set

Barcode Programming

Netumscan 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.

Important Notes: Many of the command barcodes only work with a scanner in a particular connection modes. 2.4Ghz wireless mode as indicated by the header row of each table.

Connection Modes:

Wired Connection

USB HID-KBW

By default, the scanner is in HID mode as a Keyboard device. It works on a Plug and Play basis and no driver is required



%#FSNOSB

*USB Cable as Keyboard (HID)

USB COM Port Emulation

If you connect the scanner to the Host via a USB connection, the USB COM Port Emulation feature allows the host to receive data in the way as a serial port does.



USB Cable as Virtual COM

Note: Wire and Wireless connect way selected automatically, the Wire way has high priority.

RF Wireless Connection.

*RF DONGLE HID-KBW

By default, the scanner is in HID mode as a Keyboard device. It works on a Plug and Play basis and no driver is required



*RF Dongle as Keyboard(HID)

RF DONGLE AS VIRTUAL COM

If you plug the RF Dongle to the host, the USB COM Port Emulation feature allows the host to receive data in the way as a serial port does.



RF Dongle as Virtual COM

Scanning Mode:

*Trigger Mode (Default)

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



013300

Trigger Mode

Auto Continuous Mode

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



013304

Auto Continuous Mode

Keyboard Language

For example If you use French Keyboard, scan command barcode of "French keyboard". If you use a US keyboard you can ignore this step.



* America EN keyboard



French keyboard



Germany keyboard



Italy keyboard



Portugal keyboard



Spain keyboard



Turkey Q keyboard



Turkey F keyboard



UK keyboard



Czech keyboard



Hungary keyboard



Belgium FR keyboard



Brazil PT keyboard



Canadian FR keyboard



Croatia keyboard



Slovak keyboard



Denmark keyboard



Finland keyboard



Latin-America ES keyboard



Netherland keyboard



Norway keyboard



Poland keyboard



Serbia keyboard



Slovenia keyboard



Sweden keyboard



Swiss DE keyboard

Data Uploading Mode

If you are heading for a working area which lies outside the 2.4G signal range, you may activate scanner's store mode, following steps described below. Under this 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 when you are near your working device.

Quit Offline Mode

By scanning the following barcode, the device leaves the offline mode, normal mode will be reinitialised.



*Quit Offline Mode

Offline Mode

By scanning the following barcode, the offline mode will be activated



Offline Mode

Output Stored Data

By scanning the following barcode, all data entries in the buffer memory can be manually uploaded after reconnecting to the working station.



Output Stored Data

Output Total Entry

By scanning the following barcode, the gross quantity of the uploaded data entries will be summarised .



Output Total Entry

Clear Memory

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



Clear Memory

Get Battery Volume

Scan below command barcode to get battery rough volume



%BAT_VOL#

Battery Rough Volume

Important Note:

Default Idle Time: Scanner will power off automatically if device is not connected within 1min.

Idle time

Scanner will turn to sleep after idle/inactive for 1min

Scan "Disable module Idle time" before you doing any other setup from this section.



SPOWER#OFF

Power Off



SRF#ST00

Disable Sleep Mode



30S



3Mins



10Mins



30Min

Convert Case



* Disable Convert Case



Up Low Case Swap (A<->a)



All Upper Case (a->A)



All Lower Case (A->a)

Beeper

Enable/Disable scanner to beep to indicate successful scan.



\$BUZZ#0

BEEP OFF



\$BUZZ#1

*High Volume



\$BUZZ#2

Middle Volume



\$BUZZ#3

Low Volume

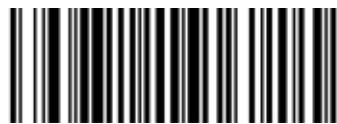
Terminator

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*



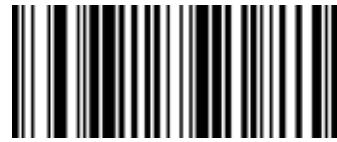
0212@\\n

LF*



0213@\\r\\n

CR+LF



0210@

NONE

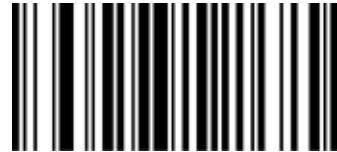


0212@

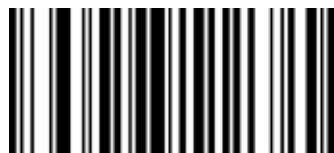
TAB

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)



Disable Code ID*



01401

Enabled Code ID Prefix



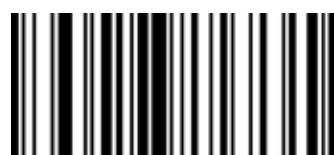
01402

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*

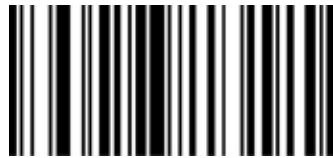


00570

EAN-8 Do Not Transit Check Digit

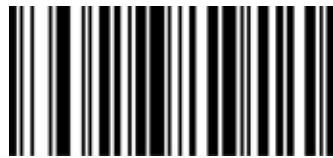
Enable/Disable EAN-13

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



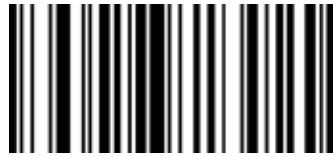
00361

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.



EAN /UPC Add-On 2 or 5

To enable or disable EAN/UPC add on 2 or 5 digits 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



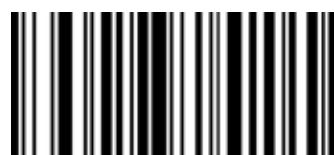
00550
Disable add-on 2 or 5 digits

Enable/Disable Convert EAN-13 to ISBN

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



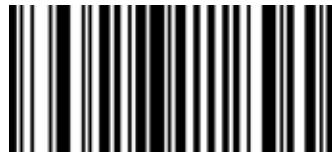
00481
Enable EAN-13 Transfer to ISBN



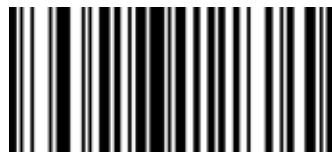
00480
Disable EAN-13 Transfer to ISBN*

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
EnableCodabar*



00850
DisableCodabar

Enable/Disable Code 11

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



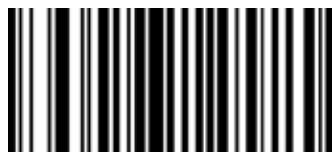
01261
Enable Code 11*



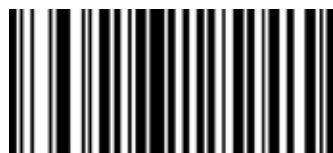
01260
Disable Code 11

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 Convert Code39 to Code32

To enable or disable Code39 to Code32 conversion, scan the appropriate bar code below.



00260
Disable*



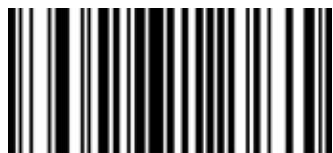
00261
enable

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*



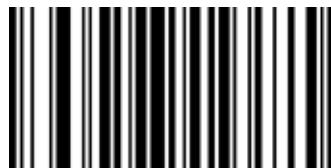
00690
Disable Code 128

Enable/Disable Code 32

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



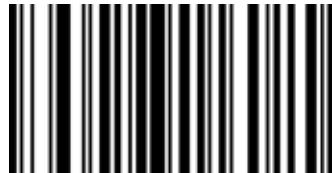
01950
Disable Code 32*



01951
Enable Code 32

Enable/Disable GS1 DataBar Limited (RSS Limited)

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



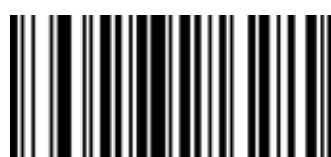
01771
Enable RSS Limited



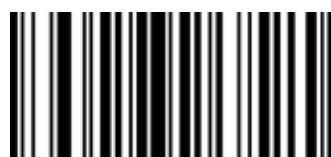
01770
Disable RSS Limited

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



01460

Disable Matrix 2 of 5

Enable/Disable 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).



Hide Barcode Start Chars



Hide Barcode Middle Char Start



Hide Barcode Middle Chars



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.



Enable Hide Barcode Start Char



Enable Hide Barcode Middle Char



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.



Add Prefix



Add Suffix



Clear All Prefix



Clear All Suffix

Numeric Bar Codes





SNO#2



SNO#3



SNO#4



SNO#5



SNO#6



SNO#7



SNO#8



SNO#9



SNO#A



SNO#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.



SDATA#0

*Default output format



SDATA#1

Enable Suffix output



SDATA#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



\$SNO#4



\$SNO#1



\$SNO#4



\$SNO#2

4. Scan the output format to enable prefix output.



\$SDATA#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.



\$SNO#2



\$SNO#1

8. Scan the output format to enable suffix output.



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

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



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

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



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.



4. Scan the output format to 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	*Shift
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@netumscan.com, and we will respond to you as soon as possible.

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