E740 Manual

V3.1.7

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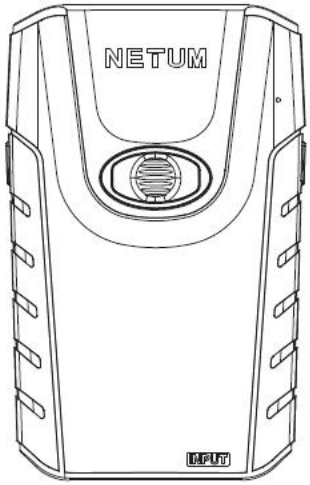
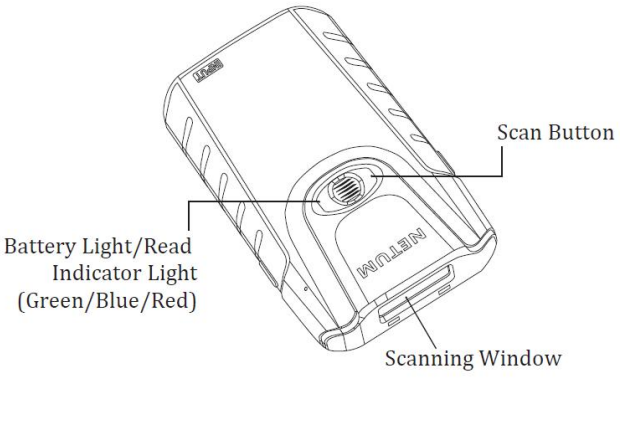
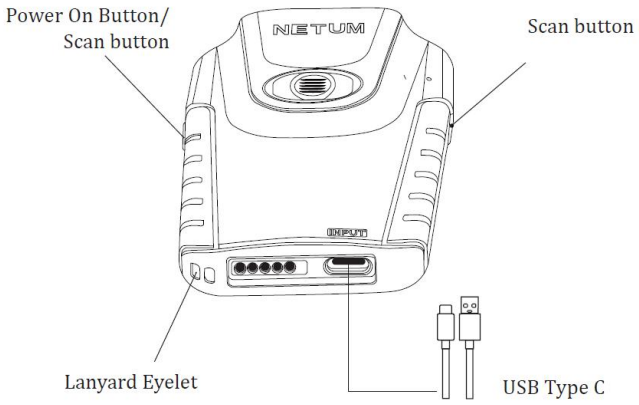
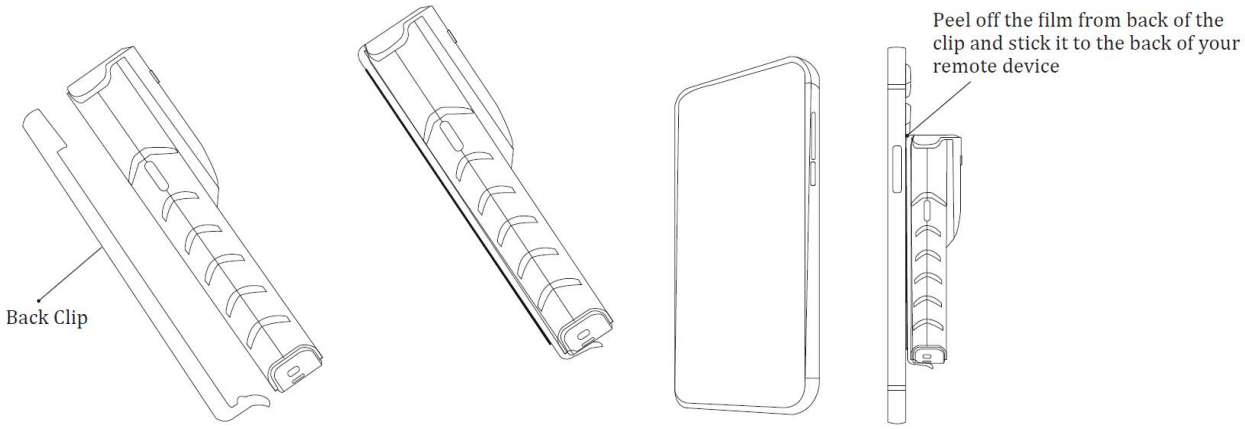
E740 SCANNER SETUP GUIDE



Product Description







Charge the scanner

Connect Scanner with your host through USB cable (provided by Netum) or take a DC plug and charge it on an electrical wall outlet.

· Red Light - Charging
· Green Light - Fully charged
· Improtant Notes: DC Plug： V: 5V; A>500mA

Warning Tone

Low battery warning - 2 beeps, LED in red flashing twice
Running out of battery - 5 beeps, LED in red flashing 5 times
Scanning will not read any barcodes when it’s running out of battery.

Get Battery Volume

By scanning below command barcode will get rough battery volume.

Firmware Version

Read below command barcode to check scanner firmware version.

Firmware Version

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.

Connection Way

Characters can be transmitted to your device via bluetooth, USB receiver or USB cable after each scanning, you can choose one of the connection ways to connect scanner with your device.

USB Wired Connection

1. USB HID Wired Connection

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.

Steps on how to transmit characters via Type-C cable:

1) Connect scanner with your computer via type-C cable.
2) Press the power button.
3) Setup keyboard language, refer to page 9.
4) Locate cursor on the place where you want scanner to output the characters then you can start to scan.

*USB Cable as Keyboard (HID)

2. USB COM Port Emulation

If you connect scanner to the Host via a USB connection, by scanning below command barcode the USB COM Port Emulation feature allows the host to receive data in the way as a serial port does (no driver need for win 10 or above).

USB Cable as Virtual COM

USB Wireless Connection

1. USB Wireless connection (HID Mode)

Steps on how to transmit characters via USB Dongle (HID Mode):

1) Plug USB dongle into your computer.
2) Press the power button.
3) Setup keyboard language, refer to page 9.
4) Locate cursor on the place where you want scanner to output the characters then you can start to scan.

*USB Dongle as Keyboard(HID)

2. USB DONGLE AS VIRTUAL COM

Plug the USB dongle into your device, by scanning below command barcode,the USB COM Port Emulation feature will allow the host to receive data in the way as a serial port does. (no driver need for win 10 or above).

USB Dongle as Virtual COM

Bluetooth Connection

Steps on how to transmit characters via bluetooth HID mode:

1) Press power button.
2) Scan “Bluetooth Transmit”.
3) Turn host device’s Bluetooth on and find “E barcode scanner” from your bluetooth list, tap it and pair.
4) Setup keyboard language, refer to page 9.
5) Locate cursor on the place where you want scanner to output characters then you can start to scan.

Important Notes:
Make sure the device is in range with Bluetooth turned on.
If a connection is made, the blue light will stop blinking and turn solid.
If a connection is not made after several attempts, the scanner will emit a long beep (and the blue light will turn off).

Bluetooth Transmit

1. Bluetooth Basic Mode (HID) *

- NO software installation needed
- Connects to most devices
- Scanner interacts with host device like a keyboard

AT+MODE=2

2. Applicatin Mode (Apple Specific Serial Profile)

- For iOS Devices
- If you have an iOS application that supports our Scanners this is the mode to use.

AT+MODE=3

3.Application Mode (Serial Port Profile)

- For Android or Windows
- Software installation is required.
- If you have an application that supports this is the mode recommended.

AT+MODE=1

Transmission Speed Via Bluetooth Connection

By scanning the appropriate barcode will change bluetooth transmit speed.

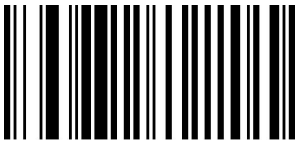
High transmit speed

Low transmit Speed

Scanning Mode:

*Trigger Mode (Default)

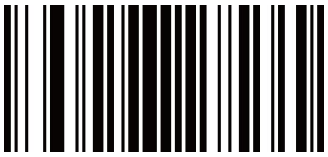
Scanning this bar code will enable the scanner to enter manual trigger mode.



Trigger Mode

Auto Sense Mode

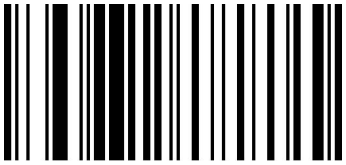
Scanning this bar code will enable the scanner to enter auto sense mode.



Auto Sense Mode

Continuous Mode

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



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

Netherlands 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 Bluetooth 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

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.

$POWER#OFF

Power Off

$RF#ST00

Disable Sleep Mode

$RF#ST01

30S

$RF#ST06

3Mins*

$RF#ST60

30Min

Convert Case

* Disable Convert Case

Up Low Case Swap (A<->a)

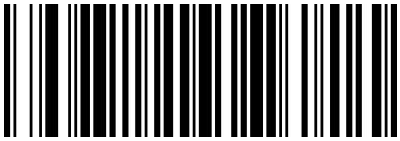
All Upper Case (a->A)

All Lower Case (A->a)

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.

None



CR&LF

CR

TAB

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 OFF

*High Volume

Middle Volume

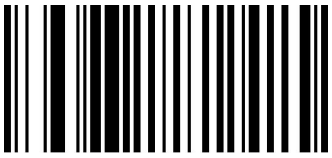
Low Volume

Restore factory default

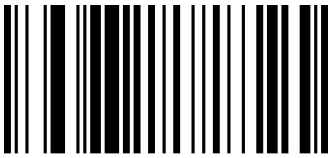
Scanning the following barcodes one by one to restore the scanner to factory defaults. (Four steps included)

1. Factory Restore

2. Serial Port



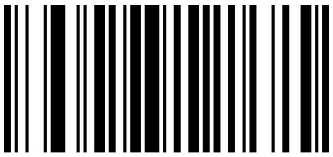
3. Baud Rate 19200



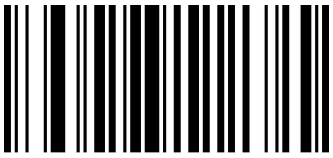
4. Enter+LF

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)

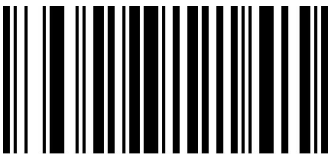


01400
Disable Code ID*



01401

Enabled Code ID Prefix



01402
Enabled Code ID Prefix

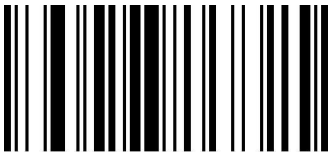
Symbology

EAN-8

Enable/Disable EAN-8

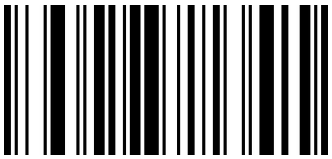
To enable or disable EAN-8, scan the appropriate bar code below.

00371
Enable EAN-8*

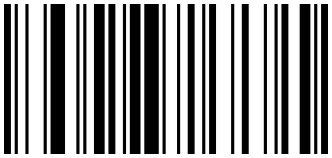


00370
Disable EAN-8

EAN-8 transit check digit



00571
EAN-8 Transit Check Digit*

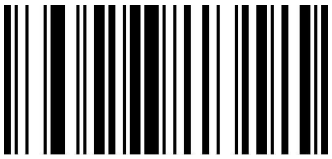


00570
EAN-8 Do Not Transit Check Digit

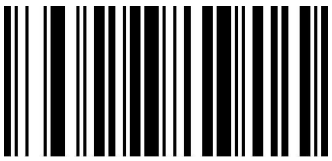
EAN-13

Enable/Disable EAN-13

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

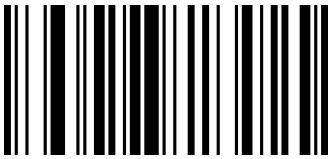


00361
Enable EAN-13*

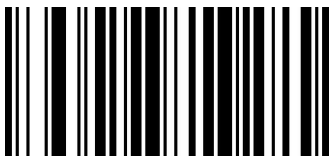


00360
Disable EAN-13

EAN-13 transit check digit



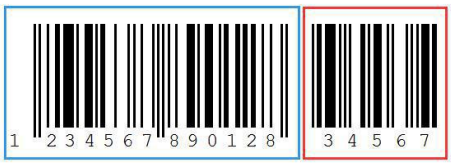
00461
EAN-13 Transit Check Digit *



00460
EAN-13 Do Not Transit Check Digit

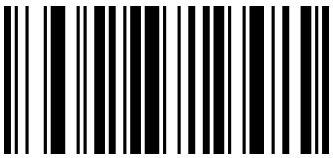
Add-On Code

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.

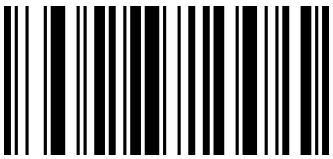


EAN /UPC Add-On 2 or 5

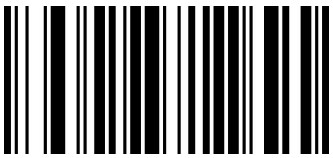
To enable or disable EAN/UPC add on 2 or 5 digits scan the appropriate barcode below.



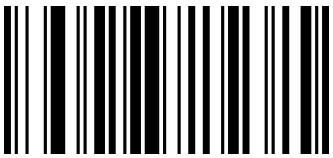
00551
Enable add-on 2 digits



00552
Enable add-on 5 digits



00553
Enable add -on 2 or 5 digits

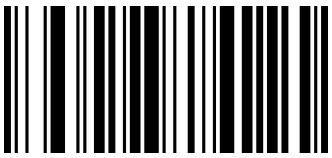


00550
Disable add-on 2 or 5 digits

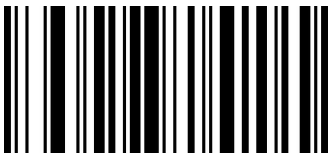
Convert EAN-13 to ISBN

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

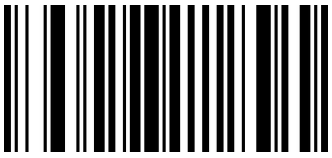


00480
Disable EAN-13 Transfer to ISBN*

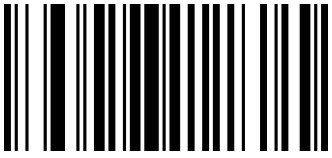
Convert EAN-13 to ISSN

Enable/Disable Convert EAN-13 to ISSN

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



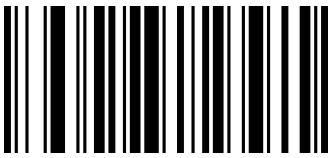
01501
Enable EAN-13 Transfer to ISSN



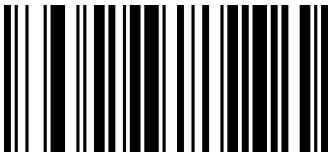
01500
Disable EAN-13 Transfer to ISSN*

Codabar
Enable/Disable Codabar

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



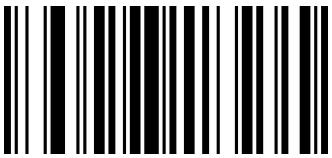
00851
Enable Codabar*



00850
Disable Codabar

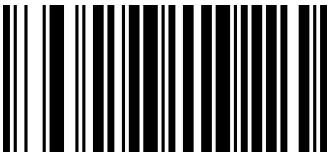
Code11
Enable/Disable Code 11

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



01261

Enable Code 11*

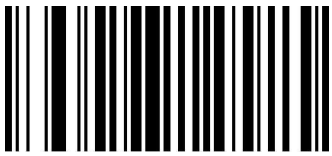


01260
Disable Code 11

Code39

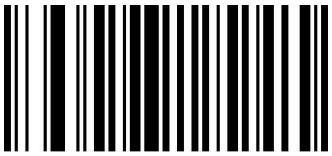
Enable/Disable Code 39

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



00221

Enable Code 39*

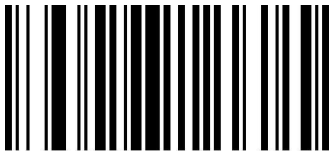


00220

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*

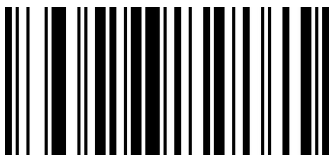
00230

Disable Full ASCII

Code93

Enable/Disable Code 93

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



00621

Enable Code 93*

00620
Disable Code 93

Code 128
Enable/Disable Code 128

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

00691

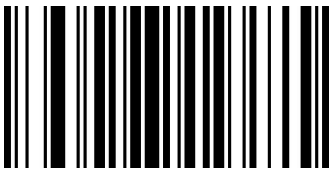
Enable Code 128*

00690
Disable Code 128

Code 32
Enable/Disable Code 32

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

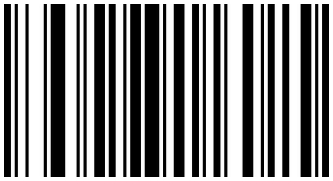
01950
Disable Code 32*



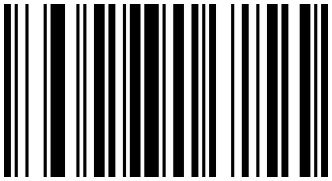
01951
Enable Code 32

GS1 DataBar Limited (RSS Limited)
Enable/Disable GS1 DataBar Limited (RSS Limited)

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



01771
Enable RSS Limited

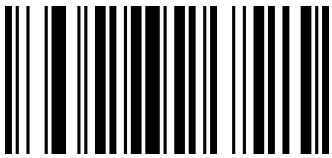


01770
Disable RSS Limited

GS1 DataBar Ominidirectional (RSS Ominidirectional)
Enable/Disable GS1 DataBar Ominidirectional

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

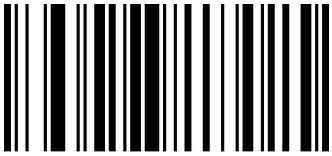
01761
Enable RSS Ominidirectional



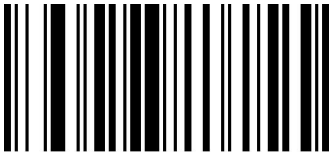
01760
Disable RSS Ominidirectional

UPC-A
Enable/Disable UPC-A

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

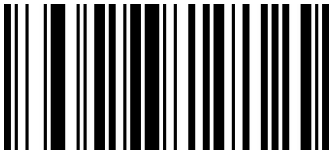


00341
Enable UPC-A*

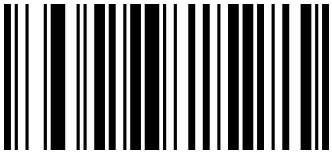


00340
Disable UPC-A

UPC-A transit check digit



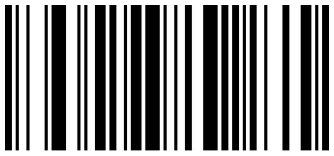
00241
Enable Transit Check Digit *



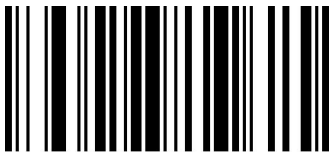
00240
Disable Transit Check Digit

Convert UPC-A to EAN-13
Enable/Disable Convert UPC-A to EAN-13

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



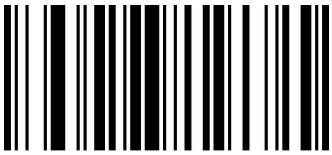
00391
Enabled UPC-A to EAN-13



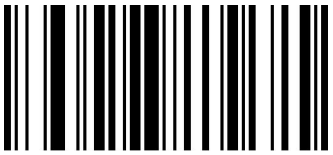
00390
Disable UPC-A to EAN-13

UPC-E
Enable/Disable UPC-E

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



00351
Enable UPC-E

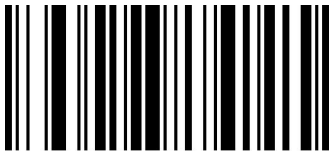


00350
Disable UPC-E

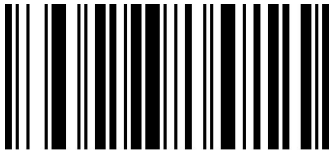
Convert UPC-E to UPC-A

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

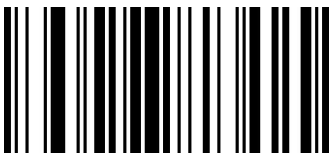


00380
Disable Convert UPC-E to UPC-A

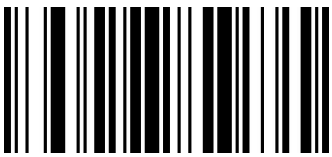
Interleaved 2 of 5

Enable/Disable Interleaved 2 of 5

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



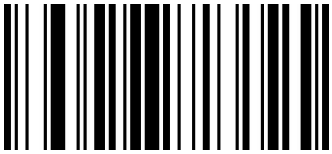
00961
Enabled Interleaved 2 of 5



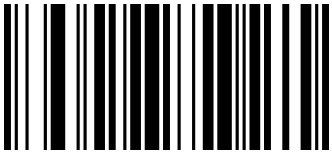
00960
Disabled Interleaved 2 of 5

Industrial 2 of 5
Enable/Disable Industrial 2 of 5

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



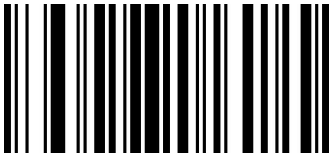
01061
Enable Industrial 2 of 5



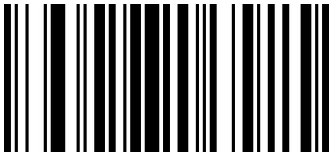
01060
Disable Industrial 2 of 5

Standard 2 of 5
Enable/Disable Standard 2 of 5

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



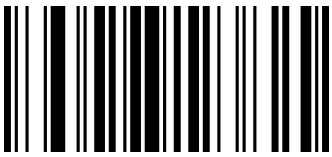
01871
Enable Standard 2 of 5



01870
Disable Standard 2 of 5

Matrix 2 of 5
Enable/Disable Matrix 2 of 5

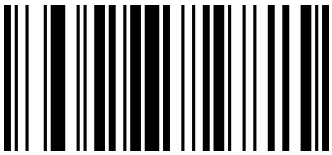
To enable or disable Matrix 2 of 5, scan the appropriate bar code below.



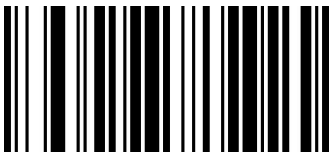
01461
Enable Matrix 2 of 5

MSI
Enable/Diable MSI

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



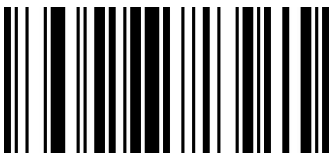
01151
Enable MSI



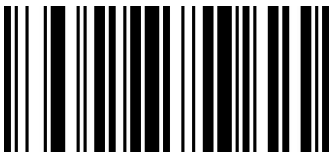
01150
Disable MSI

Plessey
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

$DATA#4

Enable Hide Barcode Middle Char

$DATA#3

Enable Hide Barcode End Char

To Hide chars of barcode Start/Middle/End:

Steps：

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 the barcode **123456789. (test it on notepad)**

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@netum.net, and we will respond to you as soon as possible.

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