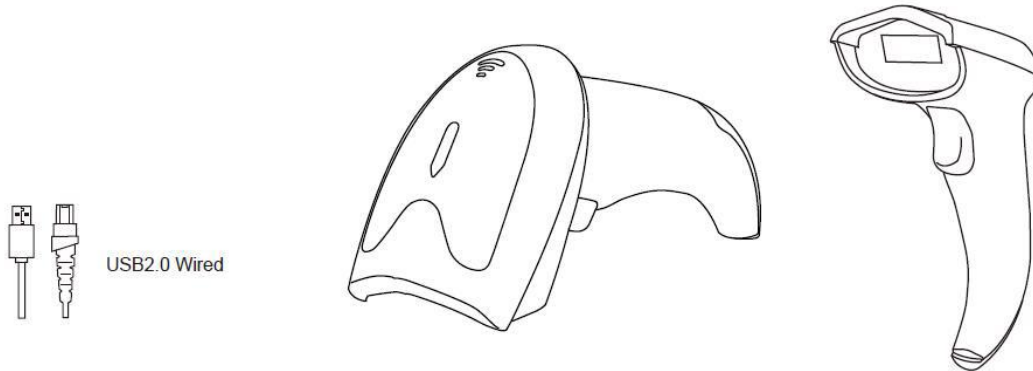


## Quick Setup Guide

This is 1D&2D plug and play model if you use a US keyboard. If you use other type of keyboard, plug the USB cable on your device , setup keyboard language before you use it. (refer to below Keyboard Language Type) after that the scanner can start to work.

---



If you want to do other configurations please refer to below programming barcodes.

## Barcode Programming

Netum barcode scanners are factory programmed for 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.

### Communication Mode

#### USB -KBW

When you connect the scanner to the Host via a USB connection, you can enable the USB-KBW feature by scanning the barcode below. It works on a Plug and Play basis and no driver is required.



#### USB Serial Port

If you connect 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.



**3030012**

**USB Serial Port**

Driver is required if you want to work under USB Serial Port.

Please download it from below link <http://www.gzxlscan.com/downloads/>

For Win 7, install 64X, for other system please install X86. As for system above Win 10 no need to install any software.

### **Keyboard Language**

In order to let scanner upload the codes in a correct way, you have to set the keyboard language.

For example

If you use French Keyboard, scan below barcode of “French keyboard” then scanner will upload barcodes according to France keyboard layout. American Keyboard is set by default, if you use a US keyboard you can skip this step.



**6060101**

America Keyboard\*



**6060112**

Portugal Keyboard



**6060108**

Franc Keyboard



**6060116**

Spain Keyboard



**6060109**

Germany Keyboard



**606011A**

Turkey Q Keyboard



**606010D**

Italy Keyboard

## Newly Added



**606010B**  
Hungary Keyboard



**606011D**  
Czech Keyboard

## Scanning Mode

### • Key Holding

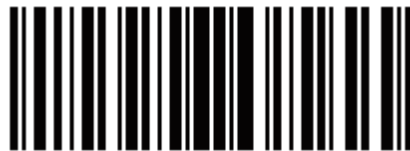
Press the button to trigger the reading, release the button to end the reading. Reading success or reading time over a single reading time will end the reading



**2050200**  
Level \*

### • Continuous Mode

Under continuous mode scanner performs continuous work. Reading success or reading time over a single reading time will end the reading. More than the specified time will automatically trigger the next reading.



**2050204**  
Continuous Mode

### • Auto Sense Mode

Under auto sense mode, scanner detects the brightness of the surroundings. Trigger reading when the brightness changes. Reading success or reading time over a single reading time will end the reading. Regardless of the last success or failure to read, re-enter the detection of the surrounding environment brightness.



**2050209**  
Auto Sense Mode

## Terminator configuration

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



3030050

Disable



3030051

CR & LF\*



3030052

CR



3030053

TAB

### Beeper Volume

To select a decode beep volume, scan the appropriate bar code.



2050802

Low



2050801

Medium



2050800

\*High

### Mute

To enable or disable close all prompt, scan the appropriate bar code below.



30300C0

Disable \*



30300C1

Enable

## Default Configuration

If you want to cancel all the configuration that you have done to the scanner. Scan below barcodes to the restore factory.



## 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.



Symbol Code ID refer to Symbol Code Identifiers.

Aim Code ID refer to AIM Code Identifiers.

## Common Function Enable/Disable UPC-A

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



**1 0000 11**

**\*Enable UPC-A**



**1 0000 10**

**Disable UPC-A**

## Enable/Disable UPC-E

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



**1 0000 21**

**\*Enable UPC-E**



**1 0000 20**

**Disable UPC-E**

## Enable/Disable EAN-8

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



**1 0000 41**

**\*Enable EAN-8**



**1 0000 40**

**Disable EAN-8**

## Enable/Disable EAN-13

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



**1 0000 31**

**\*Enable EAN-13**



**1 0000 30**

**Disable EAN-13**

## Enable/Disable Bookland EAN(ISBN)

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



Enable Bookland EAN



\*Disable Bookland EAN

## Decode UPC/EAN Supplementals

Supplementals are bar codes appended according to specific format conventions (e.g.UPC A+2, UPC E+2, EAN 13+2, EAN 13+5). The following options are available:



\*Ignore UPC/EAN with Supplementals

Do not read supplementals – Scanner can only read the barcode no matter the barcode with supplementals or not.



Only read the barcode with supplementals- The scan engine can only read the barcode with supplementals.



Auto read supplementals- The scan engine can not only read the barcode with supplementals, but also read the barcode without supplementals.

## Transmit UPC-A Check Digit

Scan the appropriate bar code below to transmit the symbol with or without the UPC-A check digit.



\*Transmit UPC-A Check Digit



Do Not Transmit UPC-A Check Digit

## Transmit UPC-E Check Digit

Scan the appropriate bar code below to transmit the symbol with or without the UPC-E check digit.



\*Transmit UPC-E Check Digit



Do Not Transmit UPC-E Check Digit

## Convert UPC-E to UPC-A

Enable this parameter to convert UPC-E (zero suppressed) decoded data to UPC-A format before transmission. After conversion, data follows UPC-A format and is affected by UPC-A programming selections



Scan **DO NOT CONVERT UPC-E TO UPC-A** to transmit UPC-E (zero suppressed) decoded data.





## Code 128

### Enable/Disable Code 128

To enable or disable Code 128, scan the appropriate bar code below.



**1000101**  
\*Enable Code 128



**1000100**  
Disable Code 128

## Code 39

### Enable/Disable Code 39

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



**1000001**  
\*Enable Code 39



**1000000**  
Disable Code 39

## Transmit Code 39 Check Digit

Scan this symbol to transmit the check digit with the data.



**1020241**  
Transmit Code 39 Check Digit (Enable)

Scan this symbol to transmit data without the check digit.



**1020240**  
\*Do Not Transmit Code 39 Check Digit (Disable)

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

See **Table 4-3** for the mapping of Code 39 characters to ASCII values.



1020111

Enable Code 39 Full ASCII



1020110

\*Disable Code 39 Full ASCII

**NOTE** Trioptic Code 39 and Code 39 Full ASCII cannot be enabled simultaneously. If you get an error beep when enabling Code 39 Full ASCII, disable Trioptic Code 39 and try again.

## Code 93

### Enable/Disable Code 93

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



1000111

Enable Code 93



1000110

\*Disable Code 93

## Code 11

### Enable/Disable Code 11

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



1000121

Enable Code 11



1000120

\*Disable Code 11

### Transmit Code 11 Check Digits

This feature selects whether or not to transmit the Code 11 check digit(s).



1020141

Transmit Code 11 Check Digit(s) (Enable)



1020140

\*Do Not Transmit Code 11 Check Digit(s) (Disable)

## Interleaved 2 of 5

### Enable/Disable Interleaved 2 of 5

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



**1000061**

**\*Enable Interleaved 2 of 5**



**1000060**

**Disable Interleaved 2 of 5**

### Transmit I 2 of 5 Check Digit

Scan this symbol to transmit the check digit with the data.



**1020211**

**Transmit I 2 of 5 Check Digit (Enable)**

Scan this symbol to transmit data without the check digit.



**1020210**

**\*Do Not Transmit I 2 of 5 Check Digit (Disable)**

### Convert I 2 of 5 to EAN-13

This parameter converts a 14 character I 2 of 5 code into EAN-13, and transmits to the host as EAN-13. To accomplish this, I 2 of 5 must be enabled, one length must be set to 14, and the code must have a leading zero and a valid EAN-13 check digit.



**1020201**

**Convert I 2 of 5 to EAN-13**



**1020200**

**\*Do Not Convert I 2 of 5 to EAN-13**

### Discrete 2 of 5/Industrial 2 of 5

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



**1000051**

**Enable Discrete 2 of 5**



**1000050**

**\*Disable Discrete 2 of 5**

## Matrix 25

### Enable/Disable Matrix 25

To enable or disable Matrix 25, scan the appropriate bar code below.



**3030201**

Enable Matrix 25



**3030200**

\*Disable Matrix 25

### Transmit Matrix 25 Check Character



**3030221**

Enable Matrix 25 Transmit Check Character



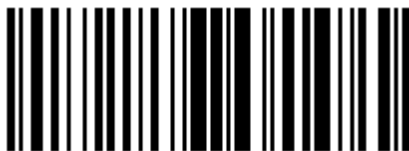
**3030220**

Disable Matrix 25 Transmit Check Character \*

## Codabar

### Enable/Disable Codabar

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



**1000071**

Enable Codabar



**1000070**

\*Disable Codabar

## MSI/MSI PLESSEY

### Enable/Disable MSI

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



**1000141**

Enable MSI



**1000140**

\*Disable MSI

### Transmit MSI Check Digit

Scan this symbol to transmit the check digit with the data.



**1020131**

**Transmit MSI Check Digit (Enable)**

Scan this symbol to transmit data without the check digit.



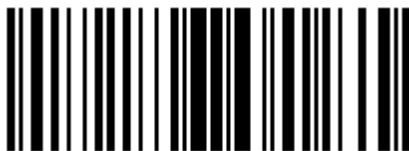
**1020130**

**\*Do Not Transmit MSI Check Digit (Disable)**

### **GS1 DataBar/RSS**

#### **Enable/Disable GS1 DataBar-14**

To enable or disable GS1 DataBar-14, scan the appropriate bar code below.



**1000351**

**Enable GS1 DataBar-14**



**1000350**

**\*Disable GS1 DataBar-14**

#### **Enable/Disable GS1 DataBar Limited**

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



**1000361**

**Enable GS1 DataBar Limited**



**1000360**

**\*Disable GS1 DataBar Limited**

#### **Enable/Disable GS1 DataBar Expanded**

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



**1000371**

**Enable GS1 DataBar Expanded**



**1000370**

**\*Disable GS1 DataBar Expanded**

## PDF417

### Enable/Disable PDF417

To enable or disable PDF417, scan the appropriate bar code below.



1000170

Disable PDF417



1000171

\*Enable PDF417

## QR

### Enable/Disable QR

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



1003250

Disable QR Code



1003251

\*Enable QR Code

## Data Matrix(DM)

### Enable/Disable Data Matrix(DM)

To enable or disable Data Matrix(DM), scan the appropriate bar code below.



1003240

Disable DataMatrix



1003241

\*Enable DataMatrix

## Maxi Code

### Enable/Disable Maxi Code

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



1003260

\*Disable MaxiCode



1003261

Enable MaxiCode

## Prefix/Suffix Values

A prefix and/or one or two suffixes can be appended to scan data for use in data editing. To set these values, scan a four-digit number (i.e. four bar codes) that corresponds to ASCII values. See the Table 4-3 and Numeric Bar Codes in appendix. To change the selection or cancel an incorrect entry, scan Cancel in appendix. To set the Prefix/Suffix values via serial commands, see Setting Prefixes

and Suffixes Via Serial Commands.

NOTE In order to use Prefix/Suffix values, the Scan Data Transmission Format must be set.



**50C0107**

Scan Prefix



**50C0006**

Scan Suffix 1



**50C0208**

Scan Suffix 2

### Scan Data Transmission Format

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



**20C1000**

\*Data As Is



**20C1001**

<DATA><SUFFIX 1>



**20C1002**

<DATA><SUFFIX2>



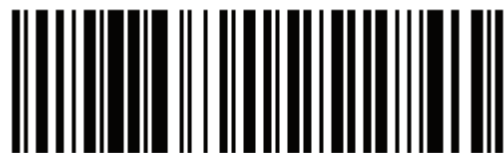
**20C1003**

<DATA> <SUFFIX 1><SUFFIX 2>



**20C1004**

<PREFIX> <DATA >



**20C1005**

<PREFIX> <DATA> <SUFFIX 1>



20C1006

<PREFIX> <DATA> <SUFFIX 2>



20C1007

<PREFIX> <DATA> <SUFFIX 1> <SUFFIX 2>

### Enable /Disable Functional Key Set



3030AD0

Disable Functional Key Set\*



3030AD1

Enable Functional Key Set

**For example if you scan value 1004, Keystroke will be “Up Down”.**

But if you scan Enable Functional Key Set after you scan the value ” 1004”, you will get functional key set Ctrl +D. For more details please refer to Appendix 2.

Scan Value	Hex Value	Keystrok	Funcional Key Set
1007	07	Enter	Ctrl+G
1008	08	Left Arrow	Ctrl+H
1003	03	Right Arrow	Ctrl+C
1004	04	Up Down	Ctrl+D

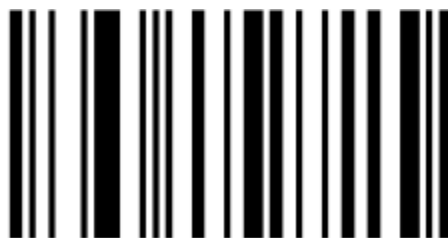
## 4. Appendix 1

### Numeric Bar Codes

For parameters requiring specific numeric values, scan the appropriately numbered bar code(s).

### Numeric Bar Codes

For parameters requiring specific numeric values, scan the appropriately numbered bar code(s).



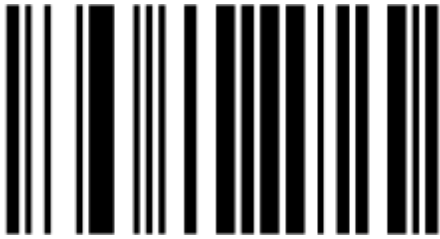
0



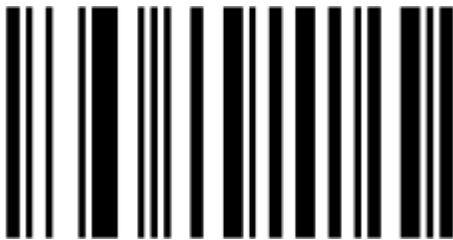




6



7



8



9

Example on how to set prefix and suffix  
Prefix Setting

Step 1: scan prefix



50C0107

Scan Prefix

Step 2: To set these values, scan a four-digit number (i.e. four bar codes) that corresponds to ASCII values. See the Table 4-3 and Numeric Bar Codes in appendix.

Step 3: i.e if you want to add "+", scan 1043 (one by one)



1



0



4



3

Step 4: Set Data Transmission Format



**20C1004**

<PREFIX> <DATA >

Suffix Setting

Step 1: scan suffix



**50C0006**

Scan Suffix 1

Step 2 and Step 3 same procedures like setting prefix

Step 4: Set Data Transmission Format



**20C1001**

<DATA><SUFFIX 1>

## Setting Prefixes and Suffixes Via Serial Commands

To append a prefix and suffixes to the decode data:

- 1、 Set the Scan Data Transmission Format (parameter 0xE2) to the desired option.
- 2、 Enter the required value(s) for Prefix (0x69), Suffix1 (0x68) or Suffix2 (0x6A) using the hex values for the desired ASCII value from Table 4-3

**Table 4-3 Character Equivalents (Continued)**

Scan Value	Hex Value	Full ASCII Code 39 Encode Char	Keystroke
1000	00h	%U	CTRL 2
1001	01h	\$A	CTRL A
1002	02h	\$B	CTRL B
1003	03h	\$C	CTRL C
1004	04h	\$D	CTRL D
1005	05h	\$E	CTRL E
1006	06h	\$F	CTRL F
1007	07h	\$G	CTRL G
1008	08h	\$H	CTRL H
1009	09h	\$I	CTRL I
1010	0Ah	\$J	CTRL J
1011	0Bh	\$K	CTRL K
1012	0Ch	\$L	CTRL L
1013	0Dh	\$M	CTRL M
1014	0Eh	\$N	CTRL N
1015	0Fh	\$O	CTRL O
1016	10h	\$P	CTRL P
1017	11h	\$Q	CTRL Q
1018	12h	\$R	CTRL R
1019	13h	\$S	CTRL S
1020	14h	\$T	CTRL T
1021	15h	\$U	CTRL U
1022	16h	\$V	CTRL V
1023	17h	\$W	CTRL W
1024	18h	\$X	CTRL X

**Table 4-3 Character Equivalents (Continued)**

Scan Value	Hex Value	Full ASCII Code 39 Encode Char	Keystroke
1025	19h	\$Y	CTRL Y
1026	1Ah	\$Z	CTRL Z
1027	1Bh	%A	CTRL [
1028	1Ch	%B	CTRL \
1029	1Dh	%C	CTRL ]
1030	1Eh	%D	CTRL 6
1031	1Fh	%E	CTRL -
1032	20h	Space	Space
1033	21h	/A	!
1034	22h	/B	'
1035	23h	/C	#
1036	24h	/D	\$
1037	25h	/E	%
1038	26h	/F	&
1039	27h	/G	'
1040	28h	/H	(
1041	29h	/I	)
1042	2Ah	/J	*
1043	2Bh	/K	+
1044	2Ch	/L	,
1045	2Dh	-	-
1046	2Eh	.	.
1047	2Fh	/	/
1048	30h	0	0
1049	31h	1	1
1050	32h	2	2
1051	33h	3	3
1052	34h	4	4
1053	35h	5	5
1054	36h	6	6
1055	37h	7	7

**Table 4-3 Character Equivalents (Continued)**

Scan Value	Hex Value	Full ASCII Code 39 Encode Char	Keystroke
1056	38h	8	8
1057	39h	9	9
1058	3Ah	/Z	:
1059	3Bh	%F	;
1060	3Ch	%G	<
1061	3Dh	%H	-
1062	3Eh	%I	>
1063	3Fh	%J	?
1064	40h	%V	@
1065	41h	A	A
1066	42h	B	B
1067	43h	C	C
1068	44h	D	D
1069	45h	E	E
1070	46h	F	F
1071	47h	G	G
1072	48h	H	H
1073	49h	I	I
1074	4Ah	J	J
1075	4Bh	K	K
1076	4Ch	L	L
1077	4Dh	M	M
1078	4Eh	N	N
1079	4Fh	O	O
1080	50h	P	P
1081	51h	Q	Q
1082	52h	R	R
1083	53h	S	S
1084	54h	T	T
1085	55h	U	U
1086	56h	V	V

**Table 4-3 Character Equivalents (Continued)**

Scan Value	Hex Value	Full ASCII Code 39 Encode Char	Keystroke
1087	57h	W	W
1088	58h	X	X
1089	59h	Y	Y
1090	5Ah	Z	Z
1091	5Bh	%K	[
1092	5Ch	%l	\
1093	5Dh	%M	]
1094	5Eh	%N	^
1095	5Fh	%O	_
1096	60h	%W	'
1097	61h	+A	a
1098	62h	+B	b
1099	63h	+C	c
1100	64h	+D	d
1101	65h	+E	e
1102	66h	+F	f
1103	67h	+G	g
1104	68h	+H	h
1105	69h	+I	i
1106	6Ah	+J	j
1107	6Bh	+K	k
1108	6Ch	+L	l
1109	6Dh	+M	m
1110	6Eh	+N	n
1111	6Fh	+O	o
1112	70h	+P	p
1113	71h	+Q	q
1114	72h	+R	r
1115	73h	+S	s
1116	74h	+T	t
1117	75h	+U	u

**Table 4-3 Character Equivalents (Continued)**

Scan Value	Hex Value	Full ASCLL Code 39 Encode Char	Keystroke
1118	76h	+V	v
1119	77h	+W	w
1120	78h	+X	x
1121	79h	+Y	y
1122	7Ah	+Z	z
1123	7Bh	%P	{
1124	7Ch	%Q	
1125	7Dh	%R	}
1126	7Eh	%S	~
1127	7Fh		Undefined

**Symbol Code Identifiers.**

Symbol Code ID	Symbolises				
A	UPC-A, UPC-E, EAN-8, EAN-13				
B	Code 39, Code 32				
C	Codabar				
D	Code 128, ISBT 128				
E	Code 93				
F	Interleaved 2 of 5				
G	Discrete 2 of 5				
H	CODE11				
J	MSI, MSI/Plessey				
K	GS1-DataBar, /UCC/EAN-128				
L	Bookland EAN, Bookland EAN/ISBN				
M	Trioptic Code 39				
N	Coupon Code				
R	GS1 DataBar-14, GS1 DataBar Limited, GS1 DataBar Expanded, RSS				
S	SETUP128				
r	PDF417				
u	DataMatrix(DM)				
q	QR				
a	Aztec Code				
x	Maxi Code				
v	Veri Code				
c	HanXin				



## AIM Code Identifiers

AIM Code	Symbolises
A	Code 39, Code 39 Full ASCII, Code 32
C	Code 128, ISBT 128, GS1-128, Coupon (Code 128 portion), Setup128
E	UPC/EAN, Coupon (UPC portion)
F	Codabar
G	Code 93
H	Code 11
I	Interleaved 2 of 5
M	MSI
S	Discrete 2 of 5, IATA 2 of 5
X	Code 39 Trioptic, Bookland EAN, Han Xin
e	GS1 DataBar
L	PDF417
d	Data Matrix(DM)
Q	QR
z	Aztec Code
U	Maxi Code

## Appendix 2

Scan Value	Hex Value	Keystroke	Functional Key Set
1007	07	Enter	Ctrl+G
1008	08	Left arrow	Ctrl+H
1003	03	right arrow	Ctrl C
1004	04	up down	Ctrl D
1010	0A	down arrow	Ctrl+J
1009	09	horizontal tab	Ctrl+I
1011	0B	vertical tab	Ctrl+K
1012	0C	backspace	Ctrl+L
1014	0E	insert	Ctrl+N
1015	0F	esc	Ctrl+O
1017	11	home	Ctrl+Q
1018	12	print screen	Ctrl+R
1019	13	delete	Ctrl+S
1022	16	F1	Ctrl+V
1023	17	F2	Ctrl+W
1024	18	F3	Ctrl+X
1025	19	F4	Ctrl+Y
1026	1A	F5	Ctrl+Z
1027	1B	F6	Ctrl+[
1028	1C	F7	Ctrl+\
1029	1D	F8	Ctrl+]
1030	1E	F9	Ctrl+6
1031	1F	F10	Ctrl++-
1016	10	F11	Ctrl+P
1021	15	F12	Ctrl+U