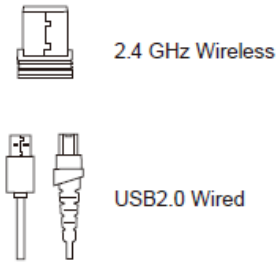
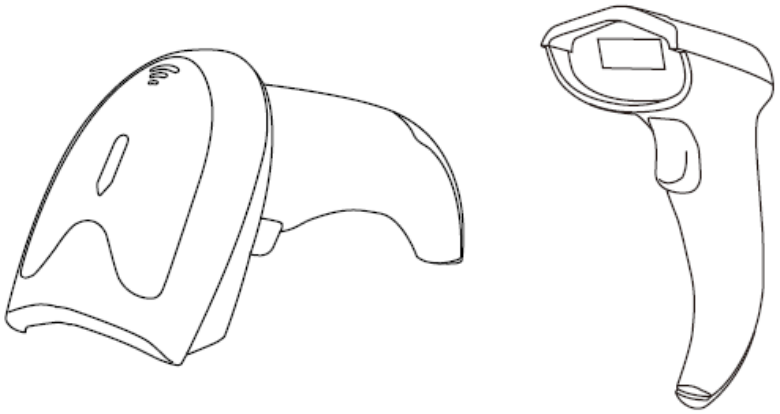
NT-W8 V18.9.1

Quick Setup Guide

This model can work both via USB cable or 2.4G receiver.





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 type" to set the keyboard language before use it. If you use it on MAC system you have to plug a 2.4G receiver working under wireless mode.

Working via 2.4G receiver

Get Started: Plug the 2.4G receiver on your device, then you can start to use it. (US keyboard by default) If you use other type of keyboard , please refer to below "keyboard language type" to set the keyboard language before use it.

Low voltage Alarm: Scanner will make 5x beeps (even you just trigger the button and do not scan any barcodes) to remind you that it's under low voltage. Plug the USB cable to charge power for it.

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

Battery Status.
When the scanner is under low voltage ,scanner will make 5 lower beeps.
When scanner is under charging power, the LED light on the top will be in orange. And when it's full it will turn to Green.

Firmware Version:
Read below command barcode to check scanner firmware version.

$SW#VER

2.4GWISX_20180514

Below programming barcodes are applied for version not lower than- 2.4GWISX_20180514

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.

Keyboard Language

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

For example
If you use French Keyboard, first scan below barcode of " Set Keyboard Language" then 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.

Set Keyboard Language

American Keyboard *

Portugal Keyboard

French Keyboard

Spanish Keyboard

Germany Keyboard

Turkey Q Keyboard

Italy Keyboard

UK Keyboard

Scan Mode

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

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

Auto Sense Mode
Scanning this bar code will enable the scanner to enter auto sense 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.

3030050
None

3030051
CR&LF *

3030052
CR

3030053
TAB

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, normal mode will be reinitialised. (By default)

Instant uploading mode

Restore factory default

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

1. Factory Restore

2. Serial Port

3. Baud Rate 19200

4. Enter+LF

5. Setting Channel

Scan channel 0, the scanner will have di di di di… sound.
Take out the receiver and plug it again, later the di di sound will be stopped then you can start to scan the barcodes

Channel 0

Beep for Non-programming code

Disables Scanner from beeping to indicate successful scans

Enables to beep to indicate successful scan *

Sleep Mode

Enable Sleeping Immediately

Prohibit Sleeping

Idle Time

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

30 s

5 Mins

10 Mins

30 Mins

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 Character Code ID

Aim Code ID Character AIM ID

***None**

Symbol Code ID Identifiers

A	UPC-A, UPC-E, EAN-8, EAN-13	**J**	MSI, MSI/Plessey
B	Code 39, Code 32	**K**	GS1-DataBar, /UCC/EAN-128
C	Codabar	**L**	Bookland EAN, Bookland EAN/ISBN
D	Code 128, ISBT 128	**M**	Trioptic Code 39
E	Code 93	**N**	Coupon Code
F	Interleaved 2 of 5	**R**	GS1 DataBar-14, GS1 DataBar Limited, GS1 DataBar Expanded, RSS
G	Discrete 2 of 5	**S**	SETUP128
H	CODE11		

r	PDF417	x	Maxi Code
u	DataMatrix(DM)	v	Veri Code
q	QR	c	HanXin
a	Aztec Code		

AIM Code Identifiers

Each AIM Code Identifier contains the three-character string **]cm** where:
] = Flag Character
c =Code Character (see *Table 4-4*)
m= Modifier Character

Table 4-4

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

Read 1D Normal barcode/ Reversal barcode

* Disable to read 1D reversal barcode

Enabled to read 1D reversal barcode

UPC/EAN

Enable/Disable UPC-A

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

*Enable UPC-A

Disable UPC-A

Enable/Disable UPC-E

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

*Enable UPC-E

Disable UPC-E

Enable/Disable EAN-8

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

*Enable EAN-8

Disable EAN-8

Enable/Disable EAN-13

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

*Enable EAN-13

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 UPC/EAN
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

Decode UPC/EAN with Supplementals

Auto discriminate UPC/EAN Supplemental**s**

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

*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

Convert UPC-E to UPC-A

*Do Not Convert UPC-E to UPC-A

EAN-8 Zero Extend

When enabled, this parameter adds five leading zeros to decoded EAN-8 symbols to make them compatible in format to EAN-13 symbols.

Enable EAN-8 Zero Extend

*Disable EAN-8 Zero Extend

Code 128

Enable/Disable Code 128

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

*Enable Code 128

Disable Code 128

Enable/Disable GS1-128

To enable or disable GS1-128, scan the appropriate bar code below.

*Enable GS1-128

Disable GS1-128

Enable/Disable ISBT 128

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

*Enable ISBT 128

Disable ISBT 128

Code39

Enable/Disable Code 39

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

*Enable Code 39

Disable Code 39

Code 39 Check Digit Verification

When this feature is enabled, the scan engine checks the integrity of all Code 39 symbols to verify that the data complies with specified check digit algorithm. Only those Code 39 symbols which include a modulo 43 check digit are decoded. Only enable this feature if your Code 39 symbols contain a module 43 check digit.

Verify Code 39 Check Digit

*Do Not Verify Code 39 Check Digit

Transmit Code 39 Check Digit

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

Transmit Code 39 Check Digit (Enable)

Scan this symbol to transmit data without the check digit.

*Do Not Transmit Code 39 Check Digit

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.

Enable Code 39 Full ASCII

*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

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

Enable Code 93

*Disable Code 93

Set Lengths for Code 93

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Lengths for Code 93 may be set for any length, one or two discrete lengths, or lengths within a specific range.

Any Length - Scan this option to decode Code 93 symbols containing any number of characters

Code 93 - Any Length

Code 11

Enable/Disable Code 11

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

Enable Code 11

*Disable Code 11

Set Lengths for Code 11

The length of a code refers to the number of characters (i.e., human readable characters), including check digit(s) the code contains. Set lengths for Code 11 to any length, one or two discrete lengths, or lengths within a specific range.

Any Length - Scan this option to decode Code 11 symbols containing any number of characters within the scan engine capability.

Code 11 - Any Length

Code 11 Check Digit Verification

This feature allows the scan engine to check the integrity of all Code 11 symbols to verify that the data complies with the specified check digit algorithm. This selects the check digit mechanism for the decoded Code 11 bar code. The options are to check for one check digit, check for two check digits, or disable the feature.

* Disable

One Check

Two Check Digit

Transmit Code 11 Check Digits

Transmit Code 11 Check Digit(s) (Enable)

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

Interleaved 2 of 5/ITF

Enable/Disable Interleaved 2 of 5

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

*Enable Interleaved 2 of 5

Disable Interleaved 2 of 5

Set Lengths for Interleaved 2 of 5 Interleaved 2 of 5

Any Length - Scan this option to decode I 2 of 5 symbols containing any number of characters

I 2 of 5 - Any Length

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.

Convert I 2 of 5 to EAN-13

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

Discrete 2 of 5/Industrial 2 of 5/IND25

Enable/Disable Discrete 2 of 5

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

Enable Discrete 2 of 5

*Disable Discrete 2 of 5

Matrix 25

Enable/Disable Matrix 25

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

Enable Matrix 25

*Disable Matrix 25

Standard 25/IATA 25

Enable/Disable Standard 25

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

*Disable Standard 25

Enable Standard 25

Standard 25 Check Digit Verification

Disable Standard 25 Check Digit Verification

Enable Standard 25 Check Digit Verification

Transmit Check Character

Disable Standard 25 Transmit Check Character

Enable Standard 25 Transmit Check Character

Codabar

Enable/Disable Codabar

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

Enable Codabar

*Disable Codabar

MSI/MSI PLESSEY

Enable/Disable MSI

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

Enable MSI

*Disable MSI

GS1 DataBar/RSS

Enable/Disable GS1 DataBar-14

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

Enable GS1 DataBar-14

*Disable GS1 DataBar-14

Enable/Disable GS1 DataBar Limited

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

Enable GS1 DataBar Limited

*Disable GS1 DataBar Limited

Enable/Disable GS1 DataBar Expanded

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

Enable GS1 DataBar Expanded

*Disable GS1 DataBar Expanded

PDF417

Scan normal or mirror image picture.

Enable/Disable PDF417

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

Disable PDF417

*Enable PDF417

Read Normal Phase/ Phase Reversal

*Read Normal Phase

Read Phase Reversal

Read Normal Phase/ Phase Reversal

QR

Read normal phase/ phase reversal/ mirror image picture

Enable/Disable QR

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

Disable QRCode

*Enable QRCode

Data Matrix(DM)

Scan normal or mirror image picture.

Enable/Disable Data Matrix(DM)

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

Disable Data Matrix

*Enable Data Matrix

Read Normal Phase/ Phase Reversal

*Read Normal Phase

Read Phase Reversal

Read Normal Phase/ Phase Reversal

Maxi Code

Enable/Disable Maxi Code

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

*Disable MaxiCode

Enable MaxiCode

Aztec Code

Enable/Disable Aztec Code

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

*Disable Aztec Code

Enable Aztec Code

Han Xin Code

Enable/Disable Han Xin Code

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

*Disable Han Xin Code

Enable Han Xin Code

Read Normal Phase/ Phase Reversal

*Read Normal Phase

Read Phase Reversal

Read Normal Phase/ Phase Reversal

Custom prefix and suffix

Custom Prefix

Custom Suffix 1

Custom Suffix 2

Please note previous prefix or suffix will be cleared once you start to add new prefix or suffix.

Scan Data Transmission Format

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

$DATA#0

*Data As Is

$DATA#1

<DATA><SUFFIX 1>

$DATA#2

<DATA><SUFFIX2>

$DATA#3

<DATA> <SUFFIX 1><SUFFIX 2>

$DATA#4

<PREFIX> <DATA >

$DATA#5

<PREFIX> <DATA> <SUFFIX 1>

$DATA#6

<PREFIX> <DATA> <SUFFIX 2>

$DATA#7

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

Appendix 1

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

$NO#0

$NO#1

$NO#2

$NO#3

$NO#4

$NO#5

$NO#6

$NO#7

$NO#8

$NO#9

For Example

Custom @ as prefix

Step 1: scan “custom prefix”

$SCAN#0

Custom Prefix

Step 2: To set these values, scan a four-digit number (i.e. four bar codes) that corresponds to ASCII values. See Numeric Bar Codes in appendix 1. Scan 1043(@) one by one.

$NO#1

$NO#0

$NO#4

$NO#3

Step 4: Set Data Transmission Format

$DATA#4

<PREFIX> <DATA >

Custom Suffix
Step 1: scan “custom suffix”

$SCAN#1

Scan Suffix 1

Step 2 and Step 3 same procedures like custom prefix
Step 4: Set Data Transmission Format

$DATA#1

<DATA><SUFFIX 1>

Enable Keystroke*/ Functional Key Set

$KEY#M0

Enable Keystroke*

$KEY#M1

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 1.

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

Appendix 1

Scan Value	Hex Vaule	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	Veritical 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

Appendix 2

Scan Value	Hex Value	Full ASCLL 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

Scan Value	Hex Value	Full ASCLL 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

Scan Value	Hex Value	Full ASCLL 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

Scan Value	Hex Value	Full ASCLL 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	%I	\
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

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

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
Addr.:Unit 137, The Pacific Industry Park, Xintang Town,Zengcheng District, Guangzhou,China/511340

Made in China