E-800 Manual

Contents

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.

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

Connection Way

Working via USB Cable

Get Started:
①Connect scanner with your device via USB cable.
②If you use US keyboard, it's plug and play. If you use other type of keyboard , please refer to "keyboard language" to configure the keyboard language before you use it.
③Locate the cursor on the place where you want the data to be displayed then you can start to scan.

Working via 2.4G receiver

Get Started:
①Scan command barcode of "RF 2.4Ghz Wireless Transmit".
②Plug the USB receiver on your computer.
③If you use US keyboard, it's plug and play. If you use other type of keyboard , please refer to "keyboard language" to configure the keyboard language before use it.
④Locate the cursor on the place where you want the data to be displayed then you can start to scan.

*RF 2.4Ghz Wireless Transmit

Working via Bluetooth

Get Started:
①Scan command barcode of" Working via Bluetooth"
②Pair the bluetooth. Please refer to the “bluetooth pairing” Page 3.
④Set keyboard language. US Keyboard by default if you use other types of keyboard please configure keyboard language before you use it.
⑤ Locate cursor on the place where you want the data to be displayed then you can start to scan.

Working via Bluetooth

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

*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

Bluetooth Connection

Basic Mode (HID) (default)

Configures the scanner to Human Interface Device (HID) mode. The scanner will be discoverable as a Keyboard to other Bluetooth devices.

*Basic Mode(HID)

Basic Mode Features:
·NO software installation required
·Connects to most devices
·Scanner interacts with host device like a keyboard

How to pair bluetooth under Basic Mode (HID) ?
Android: Connect Android Device in Basic Mode (HID)
1. Power on the scanner. The LED light will be flashing.
2. Touch Home | Menu | Settings | Wireless & Networks | Bluetooth settings
3. Make sure the device has Bluetooth “On”.
4. In the list of found devices, select “Netum Bluetooth”. Tap Pair.
5. The scanner will make one long beep after bluetooth paired and LED light will turn to solid blue (no blinking).

Apple: Connect Apple iOS Device (HID)
1.Power on the scanner. Blue LED light will start to flash.
2.Start a Bluetooth device search.
IOS: Tap Settings | General| Bluetooth. Turn on. A Bluetooth device search will begin.
3. In the device list, tap on “Netum Bluetooth”. Tap Pair.
4. The scanner will make one beep once it’s connected and LED light will turnto solid blue (no blinking) and is ready to scan.

Windows: Connect Windows PC(HID)
1.Power on the scanner. Make sure the scanner is discoverable (unpaired).
2. Use your computer’s Bluetooth Settings to connect to the scanner.
3. Open Devices and Printers and select “Add a device”.
4. In the device list, select “Netum Bluetooth”. Click Next.
5. Follow the remaining screens to complete the wizard.
6. The scanner will make one beep once it’s connected and LED light will turn to solid blue (no blinking) and is ready to scan.

Bluetooth keyboard Upload Speed

High Speed

Medium Speed

Low Speed

Important Note:

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

Un-Pair Bluetooth :

Below two steps to unpair the bluetooth from previous device completely.

1.Scan Un-pair Bluetooth HID , Scanner disconnected from current device and waits for other device to be paired.

2.Remove or Ignore"Netum Bluetooth" from your previous device.

Un-Pair Bluetooth

BLE Mode

For Apple Devices (a software was required to work under this mode)

BLE Mode

SPP Mode

For Windows or Android (a software was required to work under this mode)

SPP Mode

Important Note:

If you want to shift from HID to SPP or BLE just scan the Corresponding command barcode.

If you want to shift from SPP or BLE to HID mode, please ignore (or delete) "Netum Bluetooth"→ turn off bluetooth→ scan command barcode of HID→ Open the bluetooth → repair it.

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

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 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#ST20

10Mins

$RF#ST60

30Min

Convert Case

* Disable Convert Case

Up Low Case Swap (A<->a)

All Upper Case (a->A)

All Lower Case (A->a)

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

Terminator

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

No Terminator

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.

$BUZZ#0
BEEP OFF

$BUZZ#1
*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.

303FFF0

2.

3030010

3.

2090107

4.

%#IFSNO$B

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

All Symbologies

Enable/Disable All Symbologies
If the **Disable All Symbologies** feature is enabled, the scanner will not be able to read any non-programming barcodes except the programming barcodes.

Disable All Symbologies

Enable All Symbologies

1D Symbologies

Enable/Disable1D Symbologies
If the **Disable 1D Symbologies** feature is enabled, the scanner will not be able to read any 1D barcodes.

Disable 1D Symbologies

2D Symbologies

Enable/Disable 2D Symbologies

If the **Disable 2D Symbologies** feature is enabled, the scanner will not be able to read any 2D barcodes.

Disable 2D Symbologies

Enable 2D Symbologies

1D Inverse Barcode

Regular barcode: Dark image on a bright background.

Inverse barcode: Bright image on a dark background.

* Disable to read 1D reverse barcode

Enabled to read 1D reverse barcode

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 Supplementals

UPC-A

Enable/Disable UPC-A

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

*Enable UPC-A

Disable UPC-A

Transmit Preamble Character

Preamble characters (Country Code and System Character) can be transmitted as part of a UPC-A barcode. Select one of the following options for transmitting UPC-A preamble to the host device: transmit system character only or transmit system character and country code (“0” for USA).

No System Character

System Character & Country Code

* System Character

UPC-A Transmit Check Character

* Transmit UPC-A Check Character

Do Not Transmit UPC-A Check Character

UPC-A Add-On Code

A UPC-A barcode can be augmented with a two-digit or five-digit add-on code to form a new one.

Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code: The scanner decodes a mix of UPC-A barcodes with and without 2-digit/5-digit add-on codes.
Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The engine decodes UPC-A and ignores the add-on code when presented with a UPC-A plus add-on barcode. It can also decode UPC-A barcodes without add-on codes.

Enable 2-Digit Add-On Code

*Disable 2-Digit Add-On Code

Enable 5-Digit Add-On Code

* Disable 5-Digit Add-On Code

UPC-A Add-On Code Required

When **UPC-A Add-On Code Required** is selected, the scanner will only read UPC-A barcodes that contain add-on codes.

UPC-A Add-On Code Required

* UPC-A Add-On Code Not Required

UPC-E

Enable/Disable UPC-E

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

*Enable UPC-E

Disable UPC-E

Transmit Preamble Character

Preamble characters (Country Code and System Character) can be transmitted as part of a UPC-E barcode. Select one of the following options for transmitting UPC-E preamble to the host device: transmit system character only or transmit system character and country code (“0” for USA).

No System Character

System Character & Country Code

* System Character

UPC-E Transmit Check Character

* Transmit UPC-E Check Character

Do Not Transmit UPC-E Check Character

Convert UPC-E to UPC-A

Convert UPC-E to UPC-A

*Do not convert UPC-E to UPC-A

UPC-E Add-On Code

A UPC-E barcode can be augmented with a two-digit or five-digit add-on code to form a new one.

Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code: The scanner decodes a mix of UPC-E barcodes with and without 2-digit/5-digit add-on codes.
Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes UPC-E and ignores the add-on code when presented with a UPC-E plus add-on barcode. It can also decode UPC-E barcodes without add-on codes.

Enable 2-Digit Add-On Code

*Disable 2-Digit Add-On Code

Enable 5-Digit Add-On Code

* Disable 5-Digit Add-On Code

UPC-E Add-On Code Required

When **UPC-E Add-On Code Required** is selected, the scanner will only read UPC-E barcodes that contain add-on codes.

UPC-E Add-On Code Required

* UPC-E Add-On Code Not Required

EAN-8

Enable/Disable EAN-8

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

*Enable EAN-8

Disable EAN-8

EAN-8 Extension

Disable EAN-8 Zero Extend: Transmit EAN-8 barcodes as is.
Enable EAN-8 Zero Extend: Add five leading zeros to decoded EAN-8 barcodes to extend to13 digits.

Enable EAN-8 Zero Extend

*Disable EAN-8 Zero Extend

EAN-8 Add-On Code

A EAN-8 barcode can be augmented with a two-digit or five-digit add-on code to form a new one.

Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code: The scanner decodes a mix of EAN-8 barcodes with and without 2-digit/5-digit add-on codes.
Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes EAN-8 and ignores the add-on code when presented with a EAN-8 plus add-on barcode. It can also decode EAN-8 barcodes without add-on codes.

Enable 2-Digit Add-On Code

*Disable 2-Digit Add-On Code

Enable 5-Digit Add-On Code

*Disable 5-Digit Add-On Code

EAN-8 Add-On Code Required

When **EAN-8 Add-On Code Required** is selected, the scanner will only read EAN-8 barcodes that contain add-on codes.

EAN-8 Add-On Code Required

*EAN-8 Add-On Code Not Required

EAN-8 Transmit Check Character

* Transmit EAN-8 Check Character

Do Not Transmit EAN-8 Check Character

EAN-13

Enable/Disable EAN-13

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

*Enable EAN-13

Disable EAN-13

EAN-13 Add-On Code

A EAN-13 barcode can be augmented with a two-digit or five-digit add-on code to form a new one.

Enable 2-Digit Add-On Code/ Enable 5-Digit Add-On Code: The scanner decodes a mix of EAN-13 barcodes with and without 2-digit/5-digit add-on codes.
Disable 2-Digit Add-On Code/ Disable 5-Digit Add-On Code: The scanner decodes EAN-13 and ignores the add-on code when presented with a EAN-13 plus add-on barcode. It can also decode EAN-13 barcodes without add-on codes.

Enable 2-Digit Add-On Code

*Disable 2-Digit Add-On Code

Enable 5-Digit Add-On Code

* Disable 5-Digit Add-On Code

EAN-13 Add-On Code Required

When **EAN-13 Add-On Code Required** is selected, the scanner will only read EAN-13 barcodes that contain add-on codes.

EAN-13 Add-On Code Required

*EAN-13 Add-On Code Not Required

EAN-13 Transmit Check Character

* Transmit EAN-13 Check Character

Do Not Transmit EAN-13 Check Character

Bookland EAN(ISBN)

Enable/Disable EAN(ISBN)

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

Enable Bookland EAN

*Disable Bookland EAN

Bookland ISBN

Enable/Disable ISBN

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

*Bookland ISBN-10

Bookland ISBN-13

Code 128

Enable/Disable Code 128

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

*Enable Code 128

Disable Code 128

Code128 Transmit Check Character

Transmit Code128 Check Character

* Do Not Transmit Code128 Check Character

GS1-128 (UCC/EAN-128)

Enable/Disable GS1-128 (UCC/EAN-128)

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

*Enable GS1-128

Disable GS1-128

GS1-128 Transmit Check Character

Transmit GS1-128 Check Character

* Do Not Transmit GS1-128 Check Character

ISBT 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

Set Length Range for Code39

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 39 may be set for any length, one or two discrete lengths, or lengths within a specific range.

NOTE When setting lengths, single digit numbers must always be preceded by a leading zero.

One Discrete Length

This option limits decodes to only those Code 39 symbols containing a selected length. Lengths are selected from the *Numeric Bar Codes* in appendix. For example, to decode only Code 39 symbols with 14 characters, scan Code 39 - One Discrete Length, then scan 1 followed by 4. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Code 39 - One Discrete Length

Two Discrete Lengths

This option limits decodes to only those Code 39 symbols containing either of two selected lengths. Lengths are selected from the *Numeric Bar Codes* in appendix. For example, to decode only those Code 39 symbols containing either 2 or 14 characters, select **Code 39 - Two Discrete Lengths**, then scan **0**, **2**, **1**, and then **4**. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Code 39 - Two Discrete Lengths

Length Within Range

This option limits decodes to only those Code 39 symbols within a specified range. For example, to decode Code 39 symbols containing between 4 and 12 characters, first scan **Code 39 - Length Within Range**. Then scan **0**, **4**, **1,** and **2** according to *Numeric Bar Codes* in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix

Code 39 - Length Within Range

Any Length

Scan this option to decode Code 39 symbols containing any number of characters

Code 39 - Any Length

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.

Code39 Transmit Start/Stop Character

Transmit Start/Stop Character

** Do not Transmit Start/Stop Character

Code 32

Enable/Disable Code 32

Code 32 is a variant of Code 39 used by the Italian pharmaceutical industry. Scan the appropriate bar code below to enable or disable Code 32. Code 39 must be enabled and Code 39 check character verification must be disabled for this parameter to function.

* Disable Code 32

Enable Code 32

Code 32 Prefix

Scan the appropriate bar code below to enable or disable adding the prefix character “A” to all Code 32 barcodes. Code 32 must be enabled for this parameter to function.

* Disable Code 32 Prefix

Enable Code 32 Prefix

Code 93

Enable/Disable Code 93

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

Enable Code 93

*Disable Code 93

Set Lengths for Code93

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.

One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select **Code 93 One Discrete Length**, then scan **1**, **4**, to limit the decoding to only Code 93 symbols containing 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix

Code 93 - One Discrete Length

Two Discrete Lengths

Select this option to decode only those codes containing two selected lengths. For example, select **Code 93 Two Discrete Lengths**, then scan **0**, **2**, **1**, **4**, to limit the decoding to only Code 93 symbols containing 2 or 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Code 93 - Two Discrete Lengths

Length Within Range

This option sets the unit to decode a code type within a specified range. For example, to decode Code 93 symbols containing between 4 and 12 characters, first scan **Code 93 Length Within Range**, then scan **0**, **4**, **1** and **2** (single digit numbers must always be preceded by a leading zero). *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix..

Code 93 - Length Within Range

Any Length

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

Code 93 - Any Length

Code 93 Check Digit Verification

*Verify Code 93 Check Digit

Do Not Verify Code 39 Check Digit

Transmit Code 93 Check Digit

Transmit Code 93 Check Digit (Enable)

*Do Not Transmit Code 93 Check Digit

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

One Discrete Length

Select this option to decode only Code 11 symbols containing a selected length. Select the length using the *Numeric Bar Codes* in appendix. For example, to decode only Code 11 symbols with 14 characters, scan **Code 11 - One Discrete Length**, then scan **1** followed by **4**. To correct an error or to change the selection, scan *Cancel* in appendix.

Code 11 - One Discrete Length

Two Discrete Lengths
Select this option to decode only Code 11 symbols containing either of two selected lengths. Select lengths using the *Numeric Bar Codes* in appendix. For example, to decode only those Code 11 symbols containing either 2 or 14 characters, select **Code 11 - Two Discrete Lengths**, then scan **0**, **2**, **1**, and then **4**. To correct an error or to change the selection, scan *Cancel* in appendix.

Code 11 - Two Discrete Lengths

Length Within Range
Select this option to decode a Code 11 symbol with a specific length range. Select lengths using the *Numeric Bar Codes* in appendix. For example, to decode Code 11 symbols containing between 4 and 12 characters, first scan **Code 11 - Length Within Range**. Then scan **0**, **4**, **1,** and **2** (single digit numbers must always be preceded by a leading zero). To correct an error or change the selection, scan *Cancel* in appendix.

Code 11 - Length Within 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 Code 11 Check Digit Verification

Enable One Check Digit

Enable Two Check Digits

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

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 I 2 of 5 may be set for any length, one or two discrete lengths, or lengths within a specific range.

One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select **I 2 of 5 One Discrete Length**, then scan **1**, **4**, to decode only D 2 of 5 symbols containing 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

I 2 of 5 - One Discrete Length

Two Discrete Lengths

Select this option to decode only those codes containing two selected lengths. For example,select **I 2 of 5 Two Discrete Lengths**, then scan **0**, **6**, **1**, **4**, to decode only I 2 of 5 symbols containing 6 or 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix

I 2 of 5 - Two Discrete Lengths

Length Within Range

Select this option to decode only codes within a specified range. For example, to decode I 2 of 5 symbols containing between 4 and 12 characters, first scan **I 2 of 5 Length Within Range**, then scan **0**, **4**, **1** and **2** (single digit numbers must always be preceded by a leading zero). *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

I 2 of 5 - Length Within Range

Any Length

Scan this option to decode I 2 of 5 symbols containing any number of characters.

NOTE Selecting this option may lead to misdecodes for I 2 of 5 codes

I 2 of 5 - Any Length

I 2 of 5 Check Digit Verification

Verify I 2 of 5 Check Digit

*Do Not Verify I 2 of 5 Check Digit

Transmit I 2 of 5 Check Digit

Transmit I 2 of 5 Check Digit (Enable)

*Do Not Transmit I 2 of 5 Check Digit

ITF14

Enable/Disable ITF14

To enable or disable ITF14, scan the appropriate bar code below.

Enable ITF14

*Disable ITF14

Transmit ITF14 Check Digit

Transmit ITF14 Check Digit (Enable)

*Do Not Transmit ITF14 Check Digit

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

Set Lengths for Discrete 2 of 5

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 D 2 of 5 may be set for any length, one or two discrete lengths, or lengths within a specific range.

One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select **D 2 of 5 One Discrete Length**, then scan **1**, **4**, to decode only D 2 of 5 symbols containing 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

D 2 of 5 - One Discrete Length

Two Discrete Lengths

Select this option to decode only those codes containing two selected lengths. For example, select **D 2 of 5 Two Discrete Lengths**, then scan **0**, **2**, **1**, **4**, to decode only D 2 of 5 symbols containing 2 or 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix

D 2 of 5 - Two Discrete Lengths

Length Within Range

Select this option to decode codes within a specified range. For example, to decode D 2 of 5 symbols containing between 4 and 12 characters, first scan **D 2 of 5 Length Within Range**, then scan **0**, **4**, **1** and **2** (single digit numbers must be preceded by a leading zero). *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

D 2 of 5 - Length Within Range

Any Length
Scan this option to decode D 2 of 5 symbols containing any number of characters.
NOTE Selecting this option may lead to misdecodes for D 2 of 5 codes.

D 2 of 5 - Any Length

Discrete 2 of 5 Check Digit Verification

Verify D 2 of 5 Check Digit

*Do Not Verify D 2 of 5 Check Digit

Transmit Discrete 2 of 5 Check Digit

Transmit D 2 of 5 Check Digit (Enable)

*Do Not Transmit D 2 of 5 Check Digit

Matrix 25

Enable/Disable Matrix 25

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

Enable Matrix 25

*Disable Matrix 25

Matrix 25 Check Digit Verification

Verify Matrix 25 Check Digit

*Do Not Verify Matrix 25 Check Digit

Transmit Matrix 25 Check Digit

Transmit Matrix 25 Check Digit (Enable)

*Do Not Transmit Matrix 25 Check Digit

Set Lengths for Matrix 25

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 Matrix 25 may be set for any length, one or two discrete lengths, or lengths within a specific range.

One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select Matrix 25 One Discrete Length, then scan 1, 4, to decode only Matrix 25 symbols containing 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Matrix 25 - One Discrete Length

Two Discrete Lengths

Select this option to decode only those codes containing two selected lengths. For example, select **Matrix 25 Two Discrete Lengths**, then scan **0**, **2**, **1**, **4**, to decode only Matrix 25 symbols containing 2 or 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Matrix 25 - Two Discrete Lengths

Length Within Range

Select this option to decode codes within a specified range. For example, to decode Matrix 25 symbols containing between 4 and 12 characters, first scan **Matrix 25 Length Within Range**, then scan **0**, **4**, **1** and **2** (single digit numbers must be preceded by a leading zero). *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Matrix 25 - Length Within Range

Any Length

Scan this option to decode Matrix 25 symbols containing any number of characters.
NOTE Selecting this option may lead to misdecodes for Matrix 25 codes.

Matrix 25 - Any Length

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

Standard 25 Transmit Check Character

*Disable Standard 25 Transmit Check Character

Enable Standard 25 Transmit Check Character

Set Lengths for Standard 25

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 Standard 25 may be set for any length, one or two discrete lengths, or lengths within a specific range.

One Discrete Length
Select this option to decode only those codes containing a selected length. For example, select **Standard 25 One Discrete Length**, then scan **1**, **4**, to decode only Standard 25 symbols containing 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Standard 25 - One Discrete Length

Two Discrete Lengths
Select this option to decode only those codes containing two selected lengths. For example, select **Standard 25 Two Discrete Lengths**, then scan **0**, **2**, **1**, **4**, to decode only Standard 25 symbols containing 2 or 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Standard 25 - Two Discrete Lengths

Length Within Range
Select this option to decode codes within a specified range. For example, to decode Standard 25 symbols containing between 4 and 12 characters, first scan **Standard 25 Length Within Range**, then scan **0**, **4**, **1** and **2** (single digit numbers must be preceded by a leading zero). *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Standard 25 - Length Within Range

Any Length
Scan this option to decode Standard 25 symbols containing any number of characters.
NOTE Selecting this option may lead to misdecodes for Standard 25 codes.

Standard 25 - Any Length

Codabar

Enable/Disable Codabar

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

Enable Codabar

*Disable Codabar

Set Lengths for Codabar

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 Codabar may be set for any length, one or two discrete lengths, or lengths within a specific range.

One Discrete Length

Select this option to decode only those codes containing a selected length. For example, select **Codabar One Discrete Length**, then scan **1**, **4**, to decode only Codabar symbols containing 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Codabar - One Discrete Length Codabar

Two Discrete Lengths

This option sets the unit to decode only those codes containing two selected lengths. For example, select **Codabar Two Discrete Lengths**, then scan **0**, **2**, **1**, **4**, to decode only Codabar symbols containing 6 or 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

Codabar - Two Discrete Lengths Codabar

Length Within Range

Select this option to decode a code within a specified range. For example, to decode Codabar symbols containing between 4 and 12 characters, first scan **Codabar Length Within Range**, then scan **0**, **4**, **1** and **2** (single digit numbers must always be preceded by a leading zero). *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix

Codabar - Length Within Range Codabar -

Any Length

Scan this option to decode Codabar symbols containing any number of characters.

Codabar - Any Length Codabar

Codabar Check Digit Verification

*Disable Codabar Check Digit Verification

Enable Codabar Check Digit Verification

Codabar Transmit Check Character

*Disable Codabar Transmit Check Character

Enable Codabar Transmit Check Character

Start/Stop Character Format

You can choose your desired start/stop character format by scanning the appropriate barcode below.

* ABCD/ABCD as the Start/Stop Character

ABCD/TN*E as the Start/Stop Character

*Start/Stop Character in Uppercase

Start/Stop Character in Lowercase

MSI

Enable/Disable MSI

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

Enable MSI

*Disable MSI

Set Lengths for MSI

The length of a code refers to the number of characters (i.e., human readable characters) the code contains, and includes check digits. Lengths for MSI can be set for any length, one or two discrete lengths, or lengths within a specific range.

One Discrete Length
Select this option to decode only those codes containing a selected length. For example, select MSI Plessey One Discrete Length, then scan 1, 4, to decode only MSI Plessey symbols containing 14 characters. *Numeric Bar Codes is in Appendix.*

MSI - One Discrete Length

Two Discrete Lengths
Select this option to decode only those codes containing two selected lengths. For example, select **MSI Plessey Two Discrete Lengths**, then scan **0**, **6**, **1**, **4**, to decode only MSI Plessey symbols containing 6 or 14 characters. *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix

MSI - Two Discrete Lengths

Length Within Range
Select this option to decode codes within a specified range. For example, to decode MSI symbols containing between 4 and 12 characters, first scan **MSI Length Within Range**, then scan **0**, **4**, **1** and **2** (single digit numbers must always be preceded by a leading zero). *Numeric Bar Codes* is in appendix. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.

MSI - Length Within Range

Any Length
Scan this option to decode MSI Plessey symbols containing any number of characters.
NOTE Selecting this option may lead to misdecodes for MSI codes.

MSI - Any Length

MSI Check Character Verification

* One Check Character

Two Check Characters

MSI Transmit Check Character

Transmit Check Character

* Do Not Transmit Check Character

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

Enable/Disable PDF417

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

Disable PDF417

*Enable PDF417

PDF 417 Twin Code

PDF417 twin code is 2 PDF417 barcodes paralleled vertically or horizontally. They must both be either regular or inverse barcodes. They must have similar specifications and be placed closely together. There are 3 options for reading PDF417 twin codes:

Single PDF417 Only: Read either PDF417 code.
Twin PDF417 Only: Read both PDF417 codes.
Both Single & Twin: Read both PDF417 codes. If successful, transmit as twin PDF417 only. Otherwise, try single PDF417 only.

*Single PDF417 Only

Twin PDF417 Only

Both Single & Twin

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 QR Code

QR Twin Code

*Single QR Only

Twin QR Only

Both Single & Twin

Enable/Disable QR ECI Output

*Disable QR ECI Output

Enable QR ECI Output

Read Normal Phase/ Phase Reversal

*Read Normal Phase

Read Phase Reversal

Read Normal Phase/ Phase Reversal

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

Data Matrix Twin Code

*Single Data Matrix Only

Twin Data Matrix Only

Both Single & Twin

Enable/Disable Data Matrix ECI Output

*Disable Data Matrix ECI Output

Enable Data Matrix ECI Output

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

Han Xin Twin Code

*Single Han Xin Only

Twin Han Xin Only

Both Single & Twin

Read Normal Phase/ Phase Reversal

*Read Normal Phase

Read Phase Reversal

Read Normal Phase/ Phase Reversal

Plessey

Enable/Disable Plessey

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

Enable Plessey

*Disable Plessey

Check Character Verification

Enable Character Verification

* Disable Character Verification

Transmit Check Character

Transmit Check Character

* Do Not Transmit Check Character

Brazil Bank Code

Enable/Disable Brazil Bank Code

Only applied to 1D barcode, To enable or disable Han Xin Code, scan the appropriate bar code below.

Enable Brazil Bank Cod**e**

* Disable Brazil Bank Code

COMPOSITE

Enable/Disable COMPOSITE

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

Enable COMPOSITE Code

* Disable COMPOSITE Code

EAN/UCC

Enable/Disable EAN/UCC

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

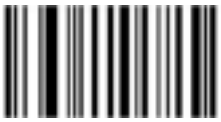
Enable EAN/UCC Code

* Disable EAN/UCC Code

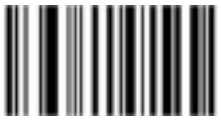
Appendix 1: Numeric Bar Codes

0

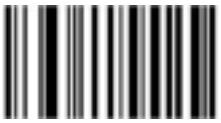
1



2



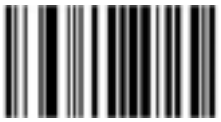
3



4

5

6



7

8

9

Cancel Barcode

To change the selection or cancel an incorrect entry, scan the barcode below.

Cancel

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:
Procedures

1. Scan the Hide Barcode Start / Middle Start / Middle length / End Chars symbol.
2. Determine the hex value for the length you wish to enter(hide 4 chars, scan 0,4; hide 12 chars, scan 0,C).
3. Scan the 2 digit hex value from the **Numeric Bar Codes**
4. Scan the output format to enable or cancel hide char function.

Custom prefix and suffix

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

To Add a Prefix or Suffix:

1. Scan command barcode of " Add Prefix" or" Add Suffix ".
2. Check the prefix or suffix hex value from the ASCII Chart.
3. Scan the 2 digit hex value from the Numeric Bar Codes
4. Repeat Steps 2 and 3 for all the prefix or suffix that you want to add.
5. Scan the output format to enable or disable prefix/suffix output.

$SCAN#2

Add Prefix

$SCAN#1

Add Suffix

$SCAN#4

Clear All Prefix

Clear All Suffix

Numeric Bar Codes

$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

Enable Prefix output

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

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

1. Scan command barcode of " Add Prefix"

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

4. Scan the output format to enable prefix output.

Enable Prefix output

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

$SCAN#1

Add Suffix

6. Check the suffix hex value from the ASCII Chart. **!- "2" "1"**
7. Scan the 2 digit hex value from the Numeric Bar Codes.

$NO#2

$NO#1

8. Scan the output format to enable suffix output.

$DATA#1
Enable Suffix output

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

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

123456789

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

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

$SCAN#1

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

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

$NO#9

$NO#7

$NO#5

$NO#0

4. Scan the output format to enable suffix output.

$DATA#1

Enable Suffix output

5. Scan " Keyboard Ctrl Combination Key"

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

Table 1. ASCII Character Equivalents

HEX	ASCII	HEX	ASCII	HEX	ASCII	HEX	ASCII
20H	Space	30H	0	40H	@	50H	P
21H	!	31H	1	41H	A	51H	Q
22H	"	32H	2	42H	B	52H	R
23H	#	33H	3	43H	C	53H	S
24H	$	34H	4	44H	D	54H	T
25H	%	35H	5	45H	E	55H	*U*
26H	&	36H	6	46H	F	56H	V
27H	'	37H	7	47H	G	57H	W
28H	(	38H	8	48H	H	58H	X
29H	)	39H	9	49H	I	59H	Y
2AH	*	3AH	:	4AH	J	5AH	Z
2BH	+	3BH	;	4BH	K	5BH	[
2CH	,	3CH	<	4CH	L	5CH	\
2DH	-	3DH	=	4DH	M	5DH	]
2EH	.	3EH	>	4EH	N	5EH	^
2FH	/	3FH	?	4FH	O	5FH	_
60H	`	70H	p	80H	F1	90H	End

61H	a	71H	q	81H	F2	91H	Page Down
62H	b	72H	r	82H	F3	92H	Right Arrow
63H	c	73H	s	83H	F4	93H	Left Arrow
64H	d	74H	t	84H	F5	94H	Down Arrow
65H	e	75H	u	85H	F6	95H	Up Arrow
66H	f	76H	v	86H	F7	96H	Print Screen
67H	g	77H	w	87H	F8	97H	*Ctrl
68H	h	78H	x	88H	F9	98H	*Shirt
69H	i	79H	y	89H	F10	99H	*Left Alt
6AH	J	7AH	z	8AH	F11	9AH	*Right Alt
6BH	k	7BH	{	8BH	F12	08H	BS
6CH	l	7CH	|	8CH	Insert	09H	HT
6DH	m	7DH	}	8DH	Home	0AH	LF
6EH	n	7EH	~	8EH	Page Up	0DH	CR
6FH	o	7FH	DEL	8FH	Delete	1BH	ESC

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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