

Table of Contents

SCANNER SETUP GUIDE	- 1 -
Chapter 1 Getting Started	- 1 -
Introduction	- 1 -
C750 Product Information	- 2 -
Charge Battery	- 3 -
Chapter 2 System Setting	- 4 -
Firmware Version	- 4 -
Barcode Programming	- 4 -
Scanning Mode:	- 4 -
*Trigger Mode (Default)	- 4 -
Auto Sense Mode	- 4 -
Reread Timeout	- 5 -
Terminator	- 5 -
Beeper	- 6 -
Illumination	- 6 -
Vibration	- 7 -
Good Read Vibration	- 7 -
Receive Device Selected	- 7 -
Default Settings	- 8 -
Restore factory default	- 8 -
Custom Defaults	- 8 -
Chapter 2 USB Wired/2.4GWireless/Bluetooth Connection	- 10 -
Connection Way	- 10 -
USB Wired Transmit	- 10 -
1. USB HID-KBW	- 10 -
2. USB COM Port Emulation	- 10 -
2.4G Wireless Transmit	- 10 -
1. USB Dongle HID Keyboard	- 10 -
2. USB DONGLE AS VIRTUAL COM	- 11 -
Bluetooth Transmit	- 11 -
1. Bluetooth HID Mode:	- 11 -
Steps on the bluetooth transmit (HID)	- 12 -
Bluetooth keyboard Upload Speed	- 12 -
2. Bluetooth BLE Mode:	- 12 -
3. Application Mode (Serial Port Profile)	- 13 -
Un-Pair Bluetooth :	- 13 -
Keyboard Language	- 13 -
Function Key Mapping	- 17 -
ASCII Function Key Mapping Table	- 17 -
Surround GS1 Application Identifiers (AI' s) with Parentheses	- 18 -
Batch Mode	- 19 -
Batch Mode Off	- 19 -
Manual Batch Mode	- 19 -
Transmit Stored Data	- 19 -
Output Total Entries	- 19 -
Clear Stored Data	- 20 -
Auto Clear Stored Data	- 20 -
Get Battery Volume	- 20 -
Idle time	- 20 -

Convert Case	- 21 -
Emulate Numeric Keypad	- 22 -
IOS Keyboard POP UP/HIDE	- 22 -
Transmit Code ID Character	- 22 -
Symbol Code ID Identifiers	- 23 -
AIM Code Identifiers	- 23 -
Chapter 3 Symbology	- 24 -
All Symbologies	- 24 -
1D Symbologies	- 24 -
2D Symbologies	- 25 -
1D Inverse Barcode	- 25 -
Decode UPC/EAN Supplementals UPC/EAN	- 26 -
UPC-A	- 26 -
Enable/Disable UPC-A	- 26 -
Transmit Preamble Character	- 27 -
UPC-A Transmit Check Character	- 27 -
UPC-A Add-On Code	- 27 -
UPC-A Add-On Code Required	- 28 -
UPC-E	- 28 -
Enable/Disable UPC-E	- 28 -
Transmit Preamble Character	- 29 -
UPC-E Transmit Check Character	- 29 -
Convert UPC-E to UPC-A	- 29 -
UPC-E Add-On Code	- 30 -
UPC-E Add-On Code Required	- 30 -
EAN-8	- 31 -
Enable/Disable EAN-8	- 31 -
EAN-8 Extension	- 31 -
EAN-8 Add-On Code	- 31 -
EAN-8 Add-On Code Required	- 32 -
EAN-13	- 32 -
Enable/Disable EAN-13	- 32 -
EAN-13 Add-On Code	- 33 -
EAN-13 Add-On Code Required	- 33 -
EAN-13 Transmit Check Character	- 34 -
Bookland EAN(ISBN)	- 34 -
Enable/Disable EAN(ISBN)	- 34 -
Bookland ISBN	- 34 -
Enable/Disable ISBN	- 34 -
Code 128	- 35 -
Enable/Disable Code 128	- 35 -
Code128 Transmit Check Character	- 35 -
Set Length Range for Code 128	- 35 -
Set Length Range for Code 128	- 35 -
One Discrete Length	- 35 -
Two Discrete Lengths	- 36 -
Length Within Range	- 36 -
Any Length	- 36 -
GS1-128 (UCC/EAN-128)	- 36 -
Enable/Disable GS1-128 (UCC/EAN-128)	- 36 -
GS1-128 Transmit Check Character	- 37 -
Set Length Range for GS1-128	- 37 -
Set Length Range for GS1-128	- 37 -
One Discrete Length	- 37 -
Two Discrete Lengths	- 37 -
Length Within Range	- 38 -
Any Length	- 38 -
ISBT 128	- 38 -

Enable/Disable ISBT 128	- 38 -
Code39	- 39 -
Enable/Disable Code 39	- 39 -
Set Length Range for Code39	- 39 -
One Discrete Length	- 39 -
Two Discrete Lengths	- 40 -
Length Within Range	- 40 -
Any Length	- 40 -
Code 39 Check Digit Verification	- 40 -
Transmit Code 39 Check Digit	- 41 -
Enable/Disable Code 39 Full ASCII	- 41 -
Code39 Transmit Start/Stop Character	- 42 -
Code 32	- 42 -
Enable/Disable Code 32	- 42 -
Code 32 Prefix	- 42 -
Code 93	- 43 -
Enable/Disable Code 93	- 43 -
Set Lengths for Code93	- 43 -
One Discrete Length	- 43 -
Two Discrete Lengths	- 43 -
Length Within Range	- 44 -
Any Length	- 44 -
Code 93 Check Digit Verification	- 44 -
Transmit Code 93 Check Digit	- 45 -
Code 11	- 45 -
Enable/Disable Code 11	- 45 -
Set Lengths for Code 11	- 45 -
One Discrete Length	- 45 -
Two Discrete Lengths	- 46 -
Length Within Range	- 46 -
Any Length	- 46 -
Code 11 Check Digit Verification	- 47 -
Transmit Code 11 Check Digits	- 47 -
Interleaved 2 of 5/ITF	- 48 -
Enable/Disable Interleaved 2 of 5	- 48 -
Set Lengths for Interleaved 2 of 5	- 48 -
One Discrete Length	- 48 -
Two Discrete Lengths	- 48 -
Length Within Range	- 49 -
Any Length	- 49 -
I 2 of 5 Check Digit Verification	- 49 -
Transmit I 2 of 5 Check Digit	- 50 -
ITF14	- 50 -
Enable/Disable ITF14	- 50 -
Transmit ITF14 Check Digit	- 51 -
Discrete 2 of 5/Industrial 2 of 5/IND25	- 51 -
Enable/Disable Discrete 2 of 5	- 51 -
Set Lengths for Discrete 2 of 5	- 52 -
One Discrete Length	- 52 -
Two Discrete Lengths	- 52 -
Length Within Range	- 52 -
Any Length	- 52 -
Discrete 2 of 5 Check Digit Verification	- 53 -
Transmit Discrete 2 of 5 Check Digit	- 53 -
Matrix 25	- 54 -
Enable/Disable Matrix 25	- 54 -
Matrix 25 Check Digit Verification	- 54 -
Transmit Matrix 25 Check Digit	- 55 -

Set Lengths for Matrix 25	- 55 -
One Discrete Length	- 55 -
Two Discrete Lengths	- 55 -
Length Within Range	- 56 -
Any Length	- 56 -
Standard 25/IATA 25	- 56 -
Enable/Disable Standard 25	- 56 -
Standard 25 Check Digit Verification	- 57 -
Standard 25 Transmit Check Character	- 57 -
Set Lengths for Standard 25	- 58 -
One Discrete Length	- 58 -
Two Discrete Lengths	- 58 -
Length Within Range	- 58 -
Any Length	- 58 -
Codabar	- 59 -
Enable/Disable Codabar	- 59 -
Set Lengths for Codabar	- 59 -
One Discrete Length	- 59 -
Two Discrete Lengths	- 59 -
Length Within Range	- 60 -
Any Length	- 60 -
Codabar Check Digit Verification	- 60 -
Codabar Transmit Check Character	- 61 -
Start/Stop Character	- 61 -
Start/Stop Character Format	- 61 -
MSI	- 62 -
Enable/Disable MSI	- 62 -
Set Lengths for MSI	- 62 -
One Discrete Length	- 62 -
Two Discrete Lengths	- 62 -
Length Within Range	- 63 -
Any Length	- 63 -
MSI Check Character Verification	- 63 -
MSI Transmit Check Character	- 64 -
GS1 DataBar/RSS	- 64 -
Enable/Disable GS1 DataBar-14	- 64 -
Enable/Disable GS1 DataBar Limited	- 64 -
Enable/Disable GS1 DataBar Expanded	- 65 -
PDF417	- 65 -
Enable/Disable PDF417	- 65 -
PDF 417 Twin Code	- 66 -
PDF417 Inverse	- 66 -
QR	- 67 -
Enable/Disable QR	- 67 -
QR Twin Code	- 67 -
Enable/Disable QR ECI Output	- 68 -
QR Inverse	- 68 -
Data Matrix(DM)	- 69 -
Enable/Disable Data Matrix(DM)	- 69 -
Data Matrix Twin Code	- 69 -
Enable/Disable Data Matrix ECI Output	- 70 -
Data Matrix Inverse	- 70 -
Maxi Code	- 70 -
Enable/Disable Maxi Code	- 70 -
Aztec Code	- 71 -
Enable/Disable Aztec Code	- 71 -
Han Xin Code	- 71 -
Enable/Disable Han Xin Code	- 71 -

Han Xin Twin Code	- 72 -
Han Xin Inverse	- 72 -
Plessey	- 73 -
Enable/Disable Plessey	- 73 -
Check Character Verification	- 73 -
Transmit Check Character	- 73 -
Brazil Bank Code	- 73 -
Enable/Disable Brazil Bank Code	- 73 -
COMPOSITE	- 74 -
Enable/Disable COMPOSITE	- 74 -
Chapter 4 Hide Characters	- 75 -
Hide Characters from Start/Middle/End	- 75 -
Output Format	- 75 -
To Hide chars of barcode from Start/Middle/End:	- 76 -
Chapter 5 Custom prefix and suffix	- 77 -
Add Prefix or Suffix	- 77 -
To Add a Prefix or Suffix:	- 77 -
Output Format	- 77 -
Example: How to add normal prefix or suffix on barcode "123456789"	- 78 -
Example: How to add Combination Key suffix for barcode "123456789"	- 79 -
Numeric Bar Codes	- 81 -
Table 1. ASCII Character Equivalents	- 82 -
Support	- 83 -
Contact Information	- 83 -

SCANNER SETUP GUIDE

Chapter 1 Getting Started

Introduction

This scanner reads 1D or 2D barcode by capturing its image.

It reads all kinds of mainstream 1D barcodes, standard 2D barcodes.(all versions of PDF417,QR Code ,Micro and Data Matrix) and GS1-DataBarTM (RSS) barcodes, including Limited, Stacked, Expanded and so on. Scanner reads barcodes in papers, plastic cards, LCD and other kinds of mediums of printing and displaying. It has great performance. All-in-one design is extremely light and only needs small operation space It can be embedded in varieties of application.



Command barcodes only apply for scanner connecting via USB Wired.

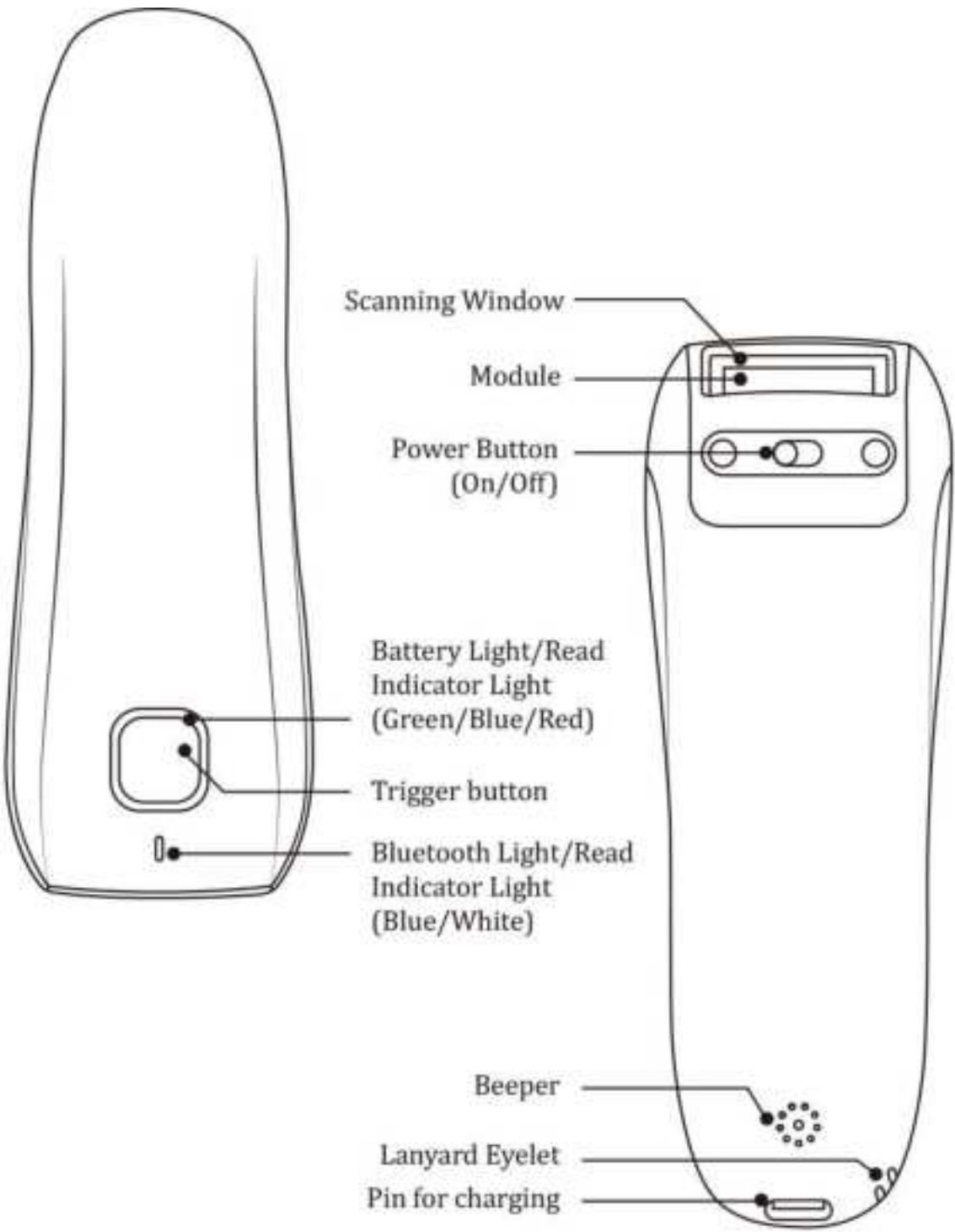


Command barcodes only apply for scanner connecting via Wireless.



Command barcodes only apply for scanner connecting via Bluetooth .

C750 Product Information

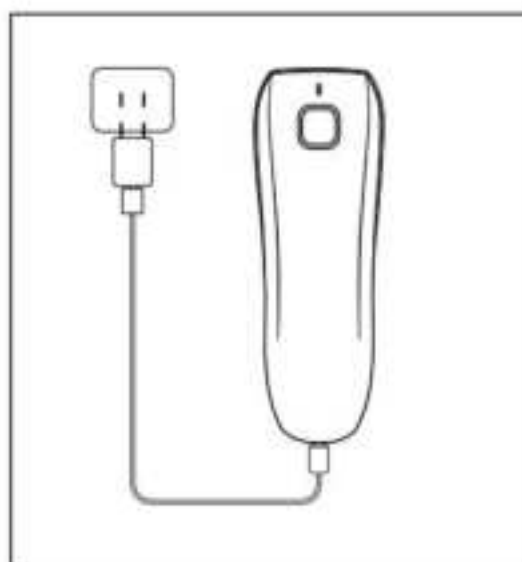


Charge Battery

1. Turn it On
2. Connect Scanner with your computer via 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

⚠ DC Plug: V: 5V; A>500mA



Chapter 2 System Setting

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.

Scanning Mode:

*Trigger Mode (Default)

A trigger pull activates a decode session. The decode session continues until a barcode is decoded or you release the trigger.



*Trigger Mode

Auto Sense Mode

The scanner activates a decode session every time it detects a barcode presented to it. The decode session continues until a barcode is decoded or the decode session timeout expires. Reread Timeout can avoid undesired rereading of same barcode in a given period of time.



Auto Sense Mode

Reread Timeout

Reread Timeout can avoid undesired rereading of same barcode in a given period of time. This feature is only applicable to the auto sense mode.

The following parameter sets the time interval between two successive reads on same barcode.



1 Second



3 Seconds



Do not allow to reread same barcode

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

Beeper

Enable/Disable scanner to beep to indicate successful scan.



*High Volume



Middle Volume



Low Volume

Illumination



*Lights up when reading



Always Off

Vibration

Good Read Vibration



OFF



*ON

Receive Device Selected



*Windows System Device



iPhone/iPad/MacDevice



Android System Device

Default Settings

Scanning the Restore All Custom Defaults barcode can reset all parameters to the custom defaults. Scanning the Save as Custom Defaults barcode can set the current settings as custom defaults. Custom defaults are stored in the non-volatile memory.

Restore factory default

Scanning the following barcodes in order will restore the scanner to factory defaults.

(Four barcodes included)

1.



2.



3.



4.



Custom Defaults



Save as Custom Defaults



Restore All Custom Defaults

Note: Restoring the scanner to the factory defaults will not remove the custom defaults from the scanner.

Chapter 2 USB Wired/2.4GWireless/Bluetooth Connection

Connection Way

Scanner can be connected to your device via bluetooth, USB Dongle or Type C cable, you can choose either way to get started:



USB Wired Transmit

1. USB HID-KBW

When scanner is connected to your device via USB cable , USB HID-KBW feature will be enabled by default. Then scanner's transmission will be simulated as USB key-board input. It works on a Plug and Play basis and no driver is required.



*USB HID-KBW

2. USB COM Port Emulation

If you connect the scanner to your device via USB cable, by scanning “USB COM Port Emulation” will allow your device to receive data in the way as a serial port does.



USB COM Port Emulation



2.4G Wireless Transmit

There are several options for wireless data transmission between the Cradle and host device.

1. USB Dongle HID Keyboard

When the USB Dongle is connected to the USB port on a host device, you can enable the Dongle HID Keyboard feature by scanning the barcode below. The wireless transmission will be simulated as Dongle keyboard input. The Host receives keystrokes on the virtual keyboard. It works on a Plug and Play basis and no driver is required.



*RF Dongle Wireless (HID mode) Transmit

Steps on RF Dongle HID keyboard mode transmission:

- ① Scan command barcode of "RF Dongle Wireless (HID mode) Transmit" (in default).
- ② Connect the cradle to the USB port on a host device.
- ③ Set keyboard language. US Keyboard was set in default if you use other types of keyboard please configure keyboard language before you use it.
- ④ Locate cursor on the place where you want the data to be displayed then you can start to scan.

2. USB DONGLE AS VIRTUAL COM

If you connect the USB dongle to the host, 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.



USB Dongle as Virtual COM

Bluetooth Transmit

Bluetooth HID/BLE/SPP mode allows the scanner to establish Bluetooth connection via the host device.

1. Bluetooth HID Mode:

Bluetooth HID Mode allows your scanner to communicate with a remote host using Bluetooth. You must first pair your scanner to the host before these two Bluetooth devices can communicate with each other. Pressing the trigger twice can turn on iPhone and iPad's virtual keyboard.

Note: The pairing information in the scanner and the current host need to be cleared before connecting with other Bluetooth devices.



Bluetooth HID

Steps on the bluetooth transmit (HID)

- ① Scan command barcode of" Bluetooth HID"
- ② Pair bluetooth.
- ④ Set keyboard language. US Keyboard was set in default if you use other types of keyboard please configure keyboard language before you use it. Refer to page 5
- ⑤ Locate cursor on the place where you want the data to be displayed then you can start to scan.



Bluetooth HID

Note: Scanner will power off automatically if device is not connected within 1min.

Bluetooth keyboard Upload Speed



High Speed



Medium Speed



Low Speed

2. Bluetooth BLE Mode:

The Bluetooth low energy communication mode can communicate with the host app developed based on the Bluetooth SDK. In this mode, the scanner provides a serial transparent transmission service based on GATT service.



AT+MODE=3

Bluetooth BLE

3. Application Mode (Serial Port Profile)



AT+MODE=1

Bluetooth SPP

Note: BLE Mode applied for IOS device ,SPP mode applied device with Android or Windows system,

Un-Pair Bluetooth :

Below two steps on unpairing the bluetooth from previous device .

1. Scan Un-pair Bluetooth
2. Remove or ignore "Netum Bluetooth" from your previous device.



Un-Pair Bluetooth

Keyboard Language

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



* America EN keyboard



French keyboard



Germany keyboard



Italy keyboard



Spain keyboard



Turkey Q keyboard



Turkey F keyboard



UK keyboard



Czech keyboard



Belgium FR keyboard



Hungary keyboard



Brazil PT keyboard



Canadian FR keyboard



Croatia keyboard



Slovak keyboard



Denmark keyboard



Finland keyboard



Latin-America ES keyboard



Netherland keyboard



Norway keyboard



Portugal keyboard



Poland keyboard



Serbia keyboard



Slovenia keyboard



Sweden keyboard



Swiss DE keyboard



ALT Global Key (Only applies for Wins)



ALT Single Byte Special Key

Function Key Mapping

When Ctrl+ASCII Mode is selected, function characters (0x00 - 0x1F) are sent as ASCII sequences.



Ctrl+ASCII Mode ON



*Ctrl+ASCII Mode OFF



Alt+Keyboard Mode

Note: Only applied for Windows, Ctrl Ascii key replaced by Command key in MAC system.

ASCII Function Key Mapping Table

ASCII	ASCII	Ctrl Ascii	Ctrl	ALT-	HE	COD	*Ctrl	Ctrl Ascii	ALT-Keyboard
-------	-------	------------	------	------	----	-----	-------	------------	--------------

Value	Func	Mode OFF	Ascii Mode On	Keyboard Mode	X	E	OFF	Mode ON	Windows
00H	NUL	NUL	Ctrl+@	ALT+000	10H	DLE	NUL	Ctrl+P	ALT+016
01H	SOH	NUL	Ctrl+A	ALT+001	11H	DC1	NUL	Ctrl+Q	ALT+017
02H	STX	NUL	Ctrl+B	ALT+002	12H	DC2	NUL	Ctrl+R	ALT+018
03H	ETX	NUL	Ctrl+C	ALT+003	13H	DC3	NUL	Ctrl+S	ALT+019
04H	EOT	NUL	Ctrl+D	ALT+004	14H	DC4	NUL	Ctrl+T	ALT+020
05H	ENQ	NUL	Ctrl+E	ALT+005	15H	NAK	NUL	Ctrl+U	ALT+021
06H	ACK	NUL	Ctrl+F	ALT+006	16H	SYN	NUL	Ctrl+V	ALT+022
07H	BEL	NUL	Ctrl+G	ALT+007	17H	ETB	NUL	Ctrl+W	ALT+023
08H	BS	Backspace	Ctrl+H	ALT+008	18H	CAN	NUL	Ctrl+X	ALT+024
09H	HT	TAB	TAB	ALT+009	19H	EM	NUL	Ctrl+Y	ALT+025
0AH	LF	Enter	Ctrl+J	ALT+010	1AH	SUB	NUL	Ctrl+Z	ALT+026
0BH	VT	TAB	Ctrl+K	ALT+011	1BH	ESC	ESC	Ctrl+[	ALT+027
0CH	FF	NUL	Ctrl+L	ALT+012	1CH	FS	NUL	Ctrl+\	ALT+028
0DH	CR	Enter	Enter	Enter	1DH	GS	NUL	Ctrl+]	ALT+029
0EH	SO	NUL	Ctrl+N	ALT+014	1EH	RS	NUL	Ctrl+^	ALT+030
0FH	SI	NUL	Ctrl+O	ALT+015	1FH	US	NUL	Ctrl+-	ALT+030

Surround GS1 Application Identifiers (AI's) with Parentheses

When Surround GS1 AI's with Parentheses is selected, each application identifier (AI) contained in scanned data will be enclosed in parentheses in the output message



* Do Not Surround GS1 AI's with Parentheses



Surround GS1 AI's with Parentheses

Batch 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.

Batch Mode Off

The scanner attempts to transmit every barcode you scan. When you are out of service range, the scanned data will be lost.



*Batch Mode Off

Manual Batch Mode

Scanned data will be stored in the flash memory no matter whether you are in service range or not. You may send the stored data to the host in the following ways: scan the **Transmit Stored Data**. The scanner will remove the stored data from the flash memory after you scanned **Clear Stored Data**. Or the scanner will automatically remove the stored data from the flash memory after transmission is done if the **Auto Clear Stored Data** has been scanned before the transmission.



Manual Batch Mode

Transmit Stored Data

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



Transmit Stored Data

Output Total Entries

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



Output Total Entries

Clear Stored Data

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



Clear Stored Data

Auto Clear Stored Data

By scanning the following barcodes will remove the stored data from the flash memory after transmission is done.



Auto Clear Stored Data

Get Battery Volume

Scan below command barcode to get battery rough volume



Battery Rough Volume

Idle time

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



Power Off



Disable Sleep Mode



SRF#ST01

30S



SRF#ST06

3Mins



SRF#ST20

10Mins



SRF#ST60

30Mins

Convert Case

You may scan the appropriate barcode below to convert all barcode data to your desired case.



* Disable Convert Case



Up Low Case Swap (A<->a)



All Upper Case (a->A)



All Lower Case (A->a)

Emulate Numeric Keypad

Do Not Emulate Numeric Keypad :

Sending a number (0-9) is emulated as keystroke(s) on main keyboard.

Emulate Numeric Keypad : Sending a number (0-9) is emulated as keystroke(s) on numeric keypad. The state of Num Lock on the simulated numeric keypad is determined by its equivalent on the host device. If Num Lock on the host device is turned off, the output of simulated numeric keypad is function key instead of number.



Do Not Emulate Numeric Keypad



Emulate Numeric Keypad

IOS Keyboard POP UP/HIDE

During the scanning IOS keyboard can be popped up by double clicking the scanning button. If not, please scan below command barcode , then double click the scanning button.



[Enable](#)/Disable Popup IOS keyboard by double triggers.

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

Chapter 3 Symbology

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/Disable 1D Symbologies

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



Disable 1D Symbologies



Enable 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: Tcanner 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: Scanner 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: 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 to 13 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-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**

Set Length Range for Code 128

Set Length Range for Code 128

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 128 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 128 symbols containing a selected length. Lengths are selected from the *Numeric Bar Codes* in appendix. For example, to decode only Code 128 symbols with 14 characters, scan Code 128 - One Discrete Length, then scan 1 followed by 4. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.



Code 128 - One Discrete Length

Two Discrete Lengths

This option limits decodes to only those Code 128 symbols containing either of two selected lengths. Lengths are selected from the *Numeric Bar Codes* in appendix. For example, to decode only those Code 128 symbols containing either 2 or 14 characters, select **Code 128 - 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 128 - Two Discrete Lengths

Length Within Range

This option limits decodes to only those Code 128 symbols within a specified range. For example, to decode Code 128 symbols containing between 4 and 12 characters, first scan **Code 128 - 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 128 - Length Within Range

Any Length

Scan this option to decode Code 128 symbols containing any number of characters



Code 128 - Any Length

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**

Set Length Range for GS1-128

Set Length Range for GS1-128

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 GS1-128 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 GS1-128 symbols containing a selected length. Lengths are selected from the *Numeric Bar Codes* in appendix. For example, to decode only GS1-128 symbols with 14 characters, scan GS1- 128 - One Discrete Length, then scan 1 followed by 4. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.



GS1- 128 - One Discrete Length

Two Discrete Lengths

This option limits decodes to only those GS1 -128 symbols containing either of two selected lengths. Lengths

are selected from the *Numeric Bar Codes* in appendix. For example, to decode only those GS1-128 symbols containing either 2 or 14 characters, select GS1- **128 - Two Discrete Lengths**, then scan **0, 2, 1**, and then **4**. To change the selection or cancel an incorrect entry, scan *Cancel* in appendix.



GS1- 128 - Two Discrete Lengths

Length Within Range

This option limits decodes to only those GS1- 128 symbols within a specified range. For example, to decode GS1- 128 symbols containing between 4 and 12 characters, first scan GS1- **128 - 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



GS1- 128 - Length Within Range

Any Length

Scan this option to decode GS1- 128 symbols containing any number of characters



GS1- 128 - Any Length

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 modulo 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
Character



**** Do not Transmit Start/Stop**

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.



[*Enable Code 11 Check Digit Verification](#)



Enable One Check Digit



Enable Two Check Digits

Transmit Code 11 Check Digits



Transmit Code 11 Check Digit(s)



[*Do Not Transmit Code 11 Check Digit\(s\)](#)

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 I 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 (USS)



*Do Not Verify I 2 of 5 Check Digit

Transmit I 2 of 5 Check Digit



Transmit I 2 of 5 Check Digit



*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



**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

You can set the start/stop characters and choose whether or not to transmit the start/stop characters by scanning the appropriate barcode below.



Transmit Start/Stop Character



[* Do Not Transmit Start/Stop 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



***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

PDF417 Inverse

Regular barcode: Dark bars on a bright background.

Inverse barcode: Bright bars on a dark background.



* Decode Regular PDF417 Barcodes Only



Decode Inverse PDF417 Barcodes Only



Decode Both

QR

Enable/Disable QR

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



Disable QRCode



[*Enable QR Code](#)

QR Twin Code

QR twin code is 2 QR 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 QR twin codes:

Single QR Only: Read either QR code.

Twin QR Only:

Read both QR codes. Transmission sequence: left (upper) QR code followed by right (lower) QR code.

Both Single & Twin: Read both QR codes. If successful, transmit as twin QR only.

Otherwise, try single QR only.



[*Single QR Only](#)



Twin QR Only



Both Single & Twin

Enable/Disable QR ECI Output



*Disable QR ECI Output



Enable QR ECI Output

QR Inverse

Regular barcode: Dark bars on a bright background

Inverse barcode: Bright bars on a dark background.



* Decode Regular QR Barcodes Only



Decode Inverse QR Barcodes Only



Decode Both

Data Matrix(DM)

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

Data Matrix twin code is 2 Data Matrix 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 Data Matrix twin codes:

Single Data Matrix Only: Read either Data Matrix code.

Twin Data Matrix Only: Read both Data Matrix codes. Transmission sequence: left (upper) Data Matrix code followed by right (lower) Data Matrix code.

Both Single & Twin: Read both Data Matrix codes. If successful, transmit as twin Data Matrix only. Otherwise, try single Data Matrix only.



[*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

Data Matrix Inverse

Regular barcode: Dark bars on a bright background.
Inverse barcode: Bright bars on a dark background.



[* Decode Regular Data Matrix Barcodes Only](#)



Decode Inverse Data Matrix Barcodes Only



Decode Both

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

Han Xin Inverse

Regular barcode: Dark bars on a bright background.
Inverse barcode: Bright bars on a dark background.



* Decode Regular Han Xin code Only



Decode Inverse Han Xin codes Only



Decode Both

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 Code



* 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

Chapter 4 Hide Characters

Hide Characters from Start/Middle/End

The start/middle/end of barcode chars can be hidden. After scan below hide set barcode, scan a double-digit hexadecimal number that you want to hide char length(00~FF e.g. hide length 4, scan 0, 4).



Hide Barcode Start Chars



Hide Barcode Middle Char Start



Hide Barcode Middle Chars



Hide Barcode End Chars

Output Format

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



Enable Hide Barcode Start Char



Enable Hide Barcode Middle Char



Enable Hide Barcode End Char

To Hide chars of barcode from Start/Middle/End:

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.

Chapter 5 Custom prefix and suffix

Add Prefix or Suffix

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

To Add a Prefix or Suffix:

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



Add Prefix



Add Suffix



Clear All Prefix



Clear All Suffix

Output Format

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



*Default output format



Enable Suffix output



Enable Prefix output

Example: 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.



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.



8. Scan the output format to enable suffix output.



Enable Suffix output

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

Example: How to add Combination Key suffix for barcode "123456789"



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

1.Scan command barcode of " Add Suffix" .



Add Suffix

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

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



4. Scan the output format to enable suffix output.



5. Scan the barcode **123456789**.

Numeric Bar Codes





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 do not hesitate to contact us.

Contact Information

Whatsapp: +86 136 222 33 974

Tel.: +0086 20-3222-8813

Email: service@netum.net

*Addr.: Building 1,
No.51 Xiangshan Avenue,
Guangzhou, China 511340*