Tera

Model No.: HW0010
Wireless 2D Mini Barcode Scanner

User Manual
Ver.01.1.01

An asterisk (*) next to an option indicates the default setting.

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 barcodes in this manual.

Note: If there is no further setting command within 20 seconds, the scanner will automatically exit the programming mode.

For correct and effective use of the product, please read this manual carefully and do not scan configuration barcodes at random. Some settings would otherwise be temporarily unavailable.

The scanner's keyboard layout default is a US keyboard.

Contents

Factory Reset

Factory Reset

You may scan this barcode, when:

1. The barcode scanner is set incorrectly, such as when the barcode cannot be scanned.
2. The user has forgotten the previous setting or does not want to keep the previous setting.
3. The barcode scanner was set to use some functions which are no longer needed.

Battery Level

Version No.

Working Mode

Instant Upload Mode:

Under instant upload mode, the data readout is uploaded to the computer directly. The data will be lost if the scanner is disconnected.

Instant Upload Mode

Storage Mode:

When the scanner is disconnected or turned off, the stored barcodes will remain in memory unless the data are cleared.

Storage Mode

Upload Data

Total Quantity of
Barcodes Uploaded

Clear Data

Communication Mode:

2.4G Mode

Bluetooth HID Mode

Bluetooth SPP Mode

Bluetooth BLE Mode

Note: The Bluetooth SPP mode and BLE mode can only be used after downloading or developing corresponding software.

2.4G Pairing Setting:

Wireless 2.4G Pairing Steps (USB Receiver pairing)

Step 1: Scan "2.4G Mode"

Step 2: Scan "Compulsory Pair with Dongle" to enter pairing mode, the left blue light flashes rapidly.

Step 3: Plug in the dongle. Pairing is successful when buzzer sounds "dee" and the right blue light is turns on.

2.4G Mode   Compulsory Pair with Dongle

Note: In pairing mode, if the user presses the button twice or the dongle is not detected in more than 1 minute, the pairing fails.

Bluetooth HID Pairing Steps:

Step 1: Scan "Bluetooth HID Mode"

Step 2: Scan "Compulsory Pair with Bluetooth" to enter pairing mode, the left blue light flashes rapidly.

Step 3: Open the Bluetooth function of your device, search "Barcode Bluetooth HID".
Step 4: Click the "Barcode Bluetooth HID" to enter Bluetooth pairing mode.
Step 5: The scanner makes a "dee" sound when pairing is successfully. The right blue light turns on.

Bluetooth HID Mode

Compulsory Pair with Bluetooth

Note: When entering pairing mode, if the user presses the button twice or the device is not detected in more than 1 minute, pairing fails.

While using the Bluetooth function, the user can press the button for 8 seconds to enter the pairing mode more quickly.

"Press for 8 Seconds to Enter the Pairing Mode" ON

"Press for 8 Seconds to Enter the Pairing Mode" OFF

Bluetooth SPP/BLE Pairing Steps:

Step 1: Scan "Bluetooth SPP Mode"

While setting Bluetooth SPP/BLE Mode, the scanner will automatically enter into SPP/BLE mode and enter into broadcast status.

The user can directly click the BarCode Bluetooth SPP/BLE device to enter into pairing mode.

Step 2: Search the "BarCode Bluetooth SPP/BLE" in the software.

Step 3: Click the Bluetooth device to enter into pairing mode.

Step 4: The scanner makes a "dee" sound after pairing successfully. The right blue light turns on.

Bluetooth SPP Mode

Bluetooth BLE Mode

Bluetooth HID Transmission Speed

If the data uploaded is missing or incorrect, please choose a slower transmission speed.

High

Medium

Low

Super Low

Bluetooth Name Setup

Use following steps to name the Bluetooth HID, SPP or BLE.

For example: Name the Bluetooth: Scanner
Step 1: Scan "Customize Bluetooth Name" code
Step 2: Make and scan the Bluetooth Name code

Customize
Bluetooth Name

Example:
Bluetooth Name Scanner

After setting:
The Bluetooth HID name will show as: Scanner HID
The Bluetooth SPP name will show as: Scanner SPP
The Bluetooth BLE name will show as: Scanner BLE

Note:
a) The maximum length of the name is 16 bytes.
If exceeded, the first 16 bytes will be used as the name.
b) The complete Bluetooth name includes:
Bluetooth name +Protocol type. Only the Bluetooth
name can be changed. The Bluetooth protocol name
will also be changed after the Bluetooth name changes.

Scanning Mode

Button-press Mode*

Always on/Continuous mode

Centering Window

Centering Off* — Center only

Centering Off - The scanner will scan all barcodes in its field of view with center preference; it is possible that the scanner reads barcodes in the corner of the image.

Center only - This setting targets the barcode closest to the center of the image. If the barcode is not in the center of the image, the scanner won't scan or read. This feature is recommended when there are multiple barcodes close together.

Volume Setting

High* — Middle — Low — Sound OFF

Vibration Setting

Vibration ON (optional)

Vibration OFF (optional)

Note: This feature is not available for all models

Sleep Time Setting

5min*

30min

No Sleep

Sleep Immediately

IOS System HID Virtual Keyboard Setting

"Double-click to
show IOS Keyboard
(HID Mode)"ON

"Double-click to
show IOS Keyboard
(HID Mode)"OFF

Terminator Setting

Add Carriage Return (0x0D)*

Add Linefeed (0x0A)

Add Carriage Return+
Linefeed (0x0D,0x0A)

None

Keyboard Language Setting

Different languages have different keyboard positions and symbols.

The scanner can be virtualized into different keyboard forms according to actual requirements.

The keyboard position setting is applied to "HID Communication Port Mode" and "American English Keyboard" is the default.

GBK
(TXT, Excel and so on)

Unicode
(WORD,QQ and so on)

English

German

French

Spanish

Italian

Japanese

British English

International keyboard

Upper/Lower Case Setting

No Change

All Upper Case

All Lower Case

13

Inverse

Note: These settings can only be valid in standard keyboard input mode and keyboard emulation input control characters mode.

Symbology Activate/De-activate

UPC-A to EAN-13

||||| ||| |||| ||||| |||||
All Barcodes ON

||| ||||| ||| ||| ||||| |||
All Barcodes OFF

||||| ||| |||| ||||| |||||
All 1D Codes ON

||| ||||| ||| ||| ||||| |||
All 1D Codes OFF

||||| ||| |||| ||||| |||||
All 2D Codes ON

||| ||||| ||| ||| ||||| |||
All 2D Codes OFF

Inverted Barcodes Setting

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Read Inverted Barcode*

||| ||||| ||| ||| ||||| |||
Read Both Normal and
Inverted Barcode

UPC-A

||||| |||||||||| || |||| ||| |||||
UPC-A ON*

||| || |||||||| ||| || || ||||| |||
UPC-A OFF

|||| |||||||||| ||| || ||| |||
UPC-A Check Digits ON*

||| || |||||||||| |||| ||| |||||
UPC-A Check Digits OFF

UPC-A code consists of 12 digits and the 12th of which is the check digit. The check digit is used to check the validity of the whole 12 digits. The check digit is transmitted by default.

UPC-E

||||| |||||||||| || |||| ||| |||||
UPC-E ON*

||| || |||||||| ||| || || ||||| |||
UPC-E OFF

||| |||||||||| ||| || || |||||
UPC-E Check Digits ON*

||| || |||||||||| |||| ||| |||||
UPC-E Check Digits OFF

UPC-E code consists of 8 digits and the 8th of which is the check digit. The check digit is used to check the validity of the whole 8 digits.
The check digit is transmitted by default.

EAN-8

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EAN-8 ON*

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EAN-8 OFF

EAN-13

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EAN-13 ON*

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EAN-13 OFF

Transmission to ISBN

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Transmission to
ISBN ON

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Transmission to
ISBN OFF*

Transmission to ISSN

|||||||||||||||||||||||||||||||

Transmission to
ISSN ON

|||||||||||||||||||||||||||||||

Transmission to
ISSN OFF*

UPC/EAN/JAN Additional Digits Setting
Additional digit means the 2 or 5 digits which are
added after the normal digits. As the pictures below

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show, the digits in the left blue box are normal digits and the digits in right red box are additional digits. The additional digits are closed by default.

+2/5 Digits ON

+2/5 Digits OFF

+2/5 Digits Automatically

Code 128

Code 128 ON*

Code 128 OFF

GS1-128

GSI-128 ON*

GSI-128 OFF

Code 39

Code 39 ON*

Code 39 OFF

Code 39 Full ASCII ON

Code 39 Full ASCII OFF*

Check Digits OFF

MOD 43 Checked ON
and Transmission ON

MOD 43 Checked ON
and Transmission OFF*

Code 32

Code 32 ON

Code 32 OFF*

Note:
When the "Code 32 ON" is on, scanning of Code 39
will be affected. Only when Code 39 without check
digits is on can Code32 Pharmaceutical be scanned.

Code 93

||||||||||||||||||||||||||

Code 93 ON*

||||||||||||||||||||||||||

Code 93 OFF

Code 11

||||||||||||||||||||||||||

Code 11 ON

||||||||||||||||||||||||||

Code 11 OFF*

||||||||||||||||||||||||||

Check Digits ON

||||||||||||||||||||||||||

Check Digits OFF*

Codabar (NW-7)

||||||||||||||||||||||||||

Codabar ON*

||||||||||||||||||||||||||

Codabar OFF

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Start and End Digit
Transmission ON

||||||||||||||||||||||||||

Start and End Digit
Transmission OFF*

Industrial 2 of 5

||||||||||||||||||||||||||

Industrial 2 of 5 ON*

||||||||||||||||||||||||||

Industrial 2 of 5 OFF

GS1 DataBar 14 (RSS-14)

GS1 DataBar 14 ON* GS1 DataBar 14 OFF

GS1 DataBar Limited (RSS-Limited)

RSS Limited ON* RSS Limited OFF

GS1 DataBar Expanded(RSS-Expanded)

RSS Expanded ON* RSS Expanded OFF

QR Code

QR Code ON* QR Code OFF

Micro QR Code

Micro QR Code ON* Micro QR Code OFF

Data Matrix

Data Matrix ON*   Data Matrix OFF

PDF 417

PDF 417 ON*   PDF 417 OFF

Micro PDF 417

Micro PDF 417 ON*   Micro PDF 417 OFF

Hidden Character GS Replacement

This function can use the hidden character GS in place of other characters to display in the device.

When hidden character GS is needed to be displayed, the GS can be set to replace the 1D of ASCII form.

GS Replacement

Step1: Scan "GS Replacement"

GS Replacement ON   GS Replacement OFF

Step2: Search "Appendix-ASCII Character Form" to find the barcode of the character to be replaced.

For example:

Replace the GS character with the displayable character |.

Step1: Scan "GS Replacement ON"

Step2: Search "Appendix-ASCII Character Form" to find the barcode of the character "|" to be replaced.

Prefix /Suffix Setup

This scanner can add a prefix or suffix with a maximum size of 32 bytes.

Prefix Setup:

Step1: Scan "Add Prefix"

Step2: Search the "ASCII Character Form" to find the barcodes for the prefix and scan the digits in order.

Add Prefix

For example:
Add prefix "789" to the barcode "ABC123", to get the result "789ABC123".
Step1: Scan "Add Prefix";
Step2: Search the "ASCII Character Form" to find the barcodes for "7", "8", "9" and scan them in order.

Clear the Prefix set
Step 1: Scan "Add Prefix"
Step 2: Scan "Exit Setting"

Add Prefix

Exit Setting

Suffix Setup

Step1: Scan "Add Suffix"
Step2: Search the "ASCII Character Form" to find the barcodes for the suffix and scan them in order. (The user has to scan the corresponding 0-3 character set when the content of the ESC is needed).

Add Suffix

For example:
Add suffix "XYZ" to the barcode "ABC123", to get the result "ABC123XYZ".
Step1: Scan "Add Suffix"
Step2: Search the "ASCII Character Form" to find the barcodes for "X", "Y", "Z" and scan them in order.

Clear Suffix

Step1: Scan "Add Suffix"
Step2: Scan "Exit Setting"

Add Suffix

Exit Setting

Hide Prefix/Suffix

Set the number of digits needed to be hidden, with a maximum of 4 digits.

Step 1: Scan "Hide Prefix" or "Hide Suffix"

Hide Prefix

Hide Suffix

Step2: Scan the following barcodes in accordance with the number of digits to be hidden.

Hide 1 Digits

Hide 2 Digits

Hide 3 Digits

Hide 4 Digits

Clear the Hidden Prefix/Suffix
Step1: Scan "Hide Prefix" or "Hide Suffix"
Step2: Scan "Exit Setting"

Hide Prefix

Exit Setting

Hide Suffix

Exit Setting

Appendix-ASCII Character Form

The Prefix and Suffix form can be divided into 2 parts:
Control Character Form and Displayable Character
Form.
Displayable Character Form can be output by HID
keyboard directly and is not needed to transfer
meaning.

Control Character Form cannot be output by HID keyboard directly and should transfer meaning first. Users can set the suitable Transfer Meaning Character Form according to their own needs.

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Set Transfer Meaning Character Form 0

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Set Transfer Meaning Character Form 1

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Set Transfer Meaning Character Form 2

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Set Transfer Meaning Character Form 3

ASCII	Character Form 0	Character Form 1	Character Form 2	Character Form 3
SOH	NULL	Home	Ctrl+A	Alt+001

Setting Barcode

STX	Ctrl+B	End	Ctrl+B	Alt+002

Setting Barcode

ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003

Setting Barcode

EOT	NULL	Down Arrow	Ctrl+D	Alt+004
Setting Barcode				

ENQ	NULL	Left Arrow	Ctrl+E	Alt+005
Setting Barcode				

ACK	NULL	Right Arrow	Ctrl+F	Alt+006
Setting Barcode				

BEL	NULL	Shift+Tab	Ctrl+G	Alt+007
Setting Barcode				

BS	Back Space	Back Space	Back Space	Alt+008

Setting Barcode

HT	Tab	Tab	Tab	Alt+009

Setting Barcode

LF	Enter	Enter	Ctrl+P	Alt+010

Setting Barcode

VT	NULL	NULL	Ctrl+Q	Alt+011

Setting Barcode

FF	NULL	NULL	Ctrl+R	Alt+012

Setting Barcode

CR	Enter	Enter	Enter	Alt+013

Setting Barcode

SO	F1	Page Up	Ctrl+N	Alt+014

Setting Barcode

S1	F2	Page Down	Ctrl+O	Alt+015

Setting Barcode

DLE	F3	F11	Ctrl+P	Alt+016

Setting Barcode

DC1	F4	NULL	Ctrl+Q	Alt+017

Setting Barcode

DC2	F5	NULL	Ctrl+R	Alt+018

Setting Barcode

DC3	F6	NULL	Ctrl+S	Alt+019

Setting Barcode

DC4	F7	NULL	Ctrl+T	Alt+020

Setting Barcode

|||||||||||||||||||||||||||||||||||

NAK	F8	F12	Ctrl+U	Alt+021

Setting Barcode

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SYN	F9	F1	Ctrl+V	Alt+022

Setting Barcode

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TB	F10	F2	Ctrl+W	Alt+023

Setting Barcode

|||||||||||||||||||||||||||||||||||

| CAN | F11 | F3 | Ctrl+X | Alt+024 |

Setting Barcode

| EM | F12 | F4 | Ctrl+Y | Alt+025 |

Setting Barcode

| SUB | NULL | F5 | Ctrl+Z | Alt+026 |

Setting Barcode

| ESC | ESC | F6 | Ctrl+[| Alt+027 |

Setting Barcode

| FS | ALT+028 | F7 | Ctrl+\ | Alt+028 |

Setting Barcode

| GS | ALT+029 | F8 | Ctrl+] | Alt+029 |

Setting Barcode

| RS | NULL | F9 | Ctrl+^ | Alt+030 |

Setting Barcode

| US | NULL | F10 | Ctrl+_ | Alt+031 |

Setting Barcode

Charac-ter	2D Setting Code	Charac-ter	2D Setting Code	Charac-ter	2D Setting Code
-		SP Space		!	
"		#		$	
%		&		`	
(		)		*	
+		,			
.		/		0	

1		2		3	
4		5		6	
7		8		9	
:		;		<	
=		>		?	
@		A		B	

C		D		E	
F		G		H	
I		J		K	
L		M		N	
O		P		Q	
R		S		T	

U		V		W	
X		Y		Z	
[		\		]	
^		_		'	
a		b		c	
d		e		f	

g		h		i	
j		k		l	
m		n		o	
p		q		r	
s		t		u	
v		w		x	

y		z		{	
l		}		~	
DEL		ç		ç	

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