

TR-UM0013

# Tera

**Model: 0013**

Wireless Back Clip 2D Barcode Scanner

**User Manual**

Ver.04.1.01

## **About This Manual**

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

Scanners are factory programmed for the most common terminal and communication settings.

If settings need to be changed, you can reprogram by scanning the barcodes in this manual.

### **Note:**

For the correct use of the product, please read this manual carefully and do not scan configuration bar codes at random. Otherwise, some settings will be temporarily unavailable.

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

Please do not hesitate to contact us if you have any questions.

### **Important Notice:**

Please include your Order Number and Product Model Number in the email.

### **Official Customer Service**

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User manuals are available in Spanish, French, Italian and German, and can be downloaded from our website.

You may visit our official website via the link below or by scanning the given QR code:

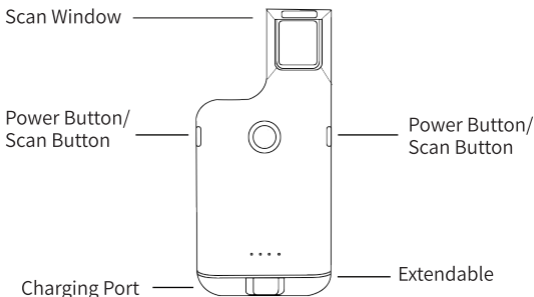
<https://www.tera-digital.com>



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## Product Description



## Specifications

Wireless Transmission Protocol: Bluetooth

Memory: 16Mb

Decode Chip: ARM Cortex 32-bit

Bluetooth Module: Bluetooth 4.1Module

Decode Capability: 1D: Codabar, Code 11, Code 93, MSI, Code 128, UCC/EAN-128, Code 39, EAN-8, EAN-13, UPC-A, ISBN, Industrial 2 of 5, Interleaved 2 of 5, Standard 2 of 5, Matrix 2 of 5, 2D: QR, Data Matrix, PDF417, Aztec, Hanxin, Micro PDF417

User Indicator: LED Indicator, Beeper, Vibration

Battery Capacity: 3000mA

Charging Voltage/Current: 5V/1A

Battery Life: 1D $\leq$ 66H 2D $\leq$ 24H (1 scan/5s)

Charge Time:  $\leq$ 4 hours

Standby Time: >30days

## **Environmental**

Operating Temperature: 32°F to 104°F/0°C to 40°C

Storage Temperature: -40°F to 140°F/-40°C to 60°C

Humidity: 5% to 95% (No condensing)

Drop Test: can withstand multiple drops to concrete from distances as high as 1.5m

Ambient Level: work properly in office and factory illumination or sunlight

ESD: meet standards of 15kV air ESD and 8kV contact ESD

# Chapter 1 General Settings

## 1. Factory Default



Factory Default






## 2. Check Version Number



Check Version Number

## 3. Beeper Settings

Beep Sequence	Meaning
1 long beep (Low to high frequency)	Power On
1 long beep (High to low frequency)	Power Off
1 short beep (Low frequency)	Read Regular Barcodes
1 short beep (Low to high frequency)	Store Data in Memory
1 short beep (High to low frequency)	Read Setting Barcodes
3 short beeps (Low frequency)	Wireless Connection Failure or Memory Unavailable

 Sound On	 Sound Off
 Volume-High	 Volume-Medium
 Volume-Low	

#### 4. Vibration Settings

 Vibration On	 Vibration Off
---	--

#### 5. Sleep Timer

 1 min	 5 mins
 30 mins	 Never



## 6. Charging Indicator

LED Status	Meaning
1 Blinking Blue LED	25% battery level
2 Blinking Blue LEDs	50% battery level
3 Blinking Blue LEDs	75% battery level
4 Solid Blue Lights	Fully Charged



Battery Level

## 7. Keyboard Country Layout

 United States	 Germany
 France	 Spain
 Italy	 Japan

 <p>United Kingdom</p>	 <p>Portugal</p>
 <p>Russia</p>	 <p>Czech</p>
 <p>Germany(IOS Layout)</p>	 <p>Canada (French)</p>
 <p>Switzerland</p>	 <p>Poland</p>
 <p>Mexico (Spanish)</p>	 <p>International Keyboard</p>

## 8. Keyboard Conversion

 <p>Convert All Characters to Lower Case</p>	 <p>Convert All Characters to Upper Case</p>
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 <p>Invert Case of All Characters</p>	 <p>Keyboard Conversion Off</p>
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## 9. Bluetooth Transfer Speed

 <p>Fast</p>	 <p>Medium</p>
 <p>Slow</p>	 <p>Ultra-slow</p>

## Chapter 2 Wireless Settings

### 1. Bluetooth Pairing

Methods of pairing the Barcode Scanner with Bluetooth-enabled devices (include Android, IOS, Win) are as follows:

**Step A:** Enter Bluetooth Pairing Mode

Method 1: Hold and press the button for 8 seconds, then the Blue LED blinks and the scanner enters Bluetooth Pairing Mode (The

scanner will beep after a double press; then it will exit Bluetooth Pairing Mode)

Method 2: Scan the setting code below, then the Blue LED blinks and the scanner enters Bluetooth Pairing Mode



HID Pairing

**Step B:** Enable Bluetooth on the device, search for Barcode Scanner HID, tap/click it to pair the two devices. A beep will be heard when pairing succeeds.

- Note:** 1. If the scanner fails to detect any Bluetooth pairing request in pairing mode within 1 minute, the scanner will emit 2 low-pitch beeps and reset to normal mode.  
2. With wired connection, Bluetooth is not available.

### Long-press to Enter HID Pairing Mode

 <p>Long-press to enter Bluetooth HID Searching On</p>	 <p>Long-press to enter Bluetooth HID Searching Off</p>
---	--

### Bluetooth Name Settings

 <p>Check Bluetooth Name</p>	 <p>Configure Bluetooth Name</p>
---	---

**How to rename:** Scan the setting code and then scan the barcode you desire. The information in the barcode scanned will be the Bluetooth name of the scanner.

**Note:**

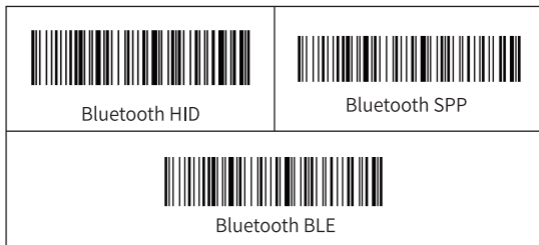
a) The maximum size of Bluetooth Name is 16 characters. If the contents of the barcodes desired exceed 16 characters, the first 16 characters will be set as the Bluetooth Name.

b) A whole Bluetooth Name includes: Bluetooth Name + Protocol Name. Only Bluetooth Name is allowed to be modified.

If Bluetooth Name has been modified, all the Protocol Name will change accordingly.

### Other Bluetooth Profiles

**Note:** A scan at the barcodes below will make the scanner search for Bluetooth device immediately



## 2. 2.4G Pairing Methods

Methods of pairing dongle with PCs which are not equipped with Bluetooth module are as follows:

**Step A:** Scan “2.4G Pairing Mode” barcode

**Step B:** Scan “Pair 2.4G Dongle with Scanner” barcode

**Step C:** Plug in the 2.4G dongle into host computer USB port, then you will hear a beep, which means that pairing succeeds.



2.4G Pairing Mode



Pair 2.4G Dongle with Scanner

**Note:**

1. If the scanner fails to detect any 2.4G dongle in pairing mode within 1 minute, it will emit 2 long low-frequency beeps and reset to normal mode. (Double press on the button will make the scanner exit pairing mode and reset to normal mode.)
2. With wired connection, 2.4G pairing mode is unavailable.

### 3. Wireless Operation Modes

The scanner features two operation modes: Real Time Mode and Storage Mode. Scan the setting codes below to switch operation modes.

#### Real Time Mode

Real Time Mode is also called Normal Mode.



Real-time Mode




#### Storage Mode

When the scanner reads a barcode in storage mode, it will emit a short beep and the barcode scanned will be stored in memory. If there is no memory available, the scanner will emit 3 low-pitch short beep to alert.



 Storage Mode	 Total Records
 Transmit All Barcodes Stored	 Clear All Barcodes Stored

## 4. Show up/Hide Keyboard

### Show up/Hide IOS System Keyboard

 Show up/Hide IOS Keyboard	 Double press to show up IOS keyboard
 Double press to show up IOS keyboard	
<b>On</b>	<b>Off</b>

### Show up/Hide HID Keyboard

 Show up/Hide HID Keyboard	 Double tap to show up/ Hide HID Keyboard On
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Double tap to show up/  
Hide HID Keyboard Off

## Chapter 3 Data Editing

### 1. Prefix and Suffix Settings

1.1 Add Code ID as prefix (Programming Process: Scan Enable Code ID, scan Code ID On/ Code ID Off, Scan Save and Exit)



#### 1.2 Custom Prefix/Suffix

When it comes to prefix and suffix, you should pay attention to control characters (non-printable characters) and printable characters. Printable characters, mainly referring to entries in the ASCII table above code 31, can be output directly by HID keyboard without escape. All entries in the ASCII table below code 32 are non-printable characters, including CR and LF used to separate lines of text, most of which cannot be output directly by HID keyboard without escape.



When setting entries in the ASCII table above code 31 as prefix or suffix, setting steps are as follows:

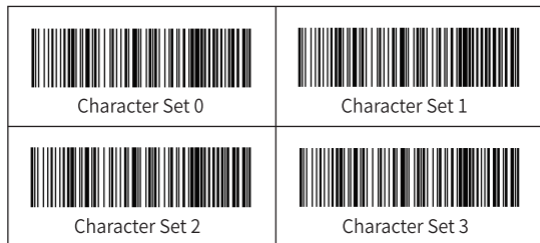
A: Scan the “Add Prefix” or “Add Suffix” barcodes below



B: Scan the barcode needed from the Appendix B Printable Character Chart

When setting entries in the ASCII table below code 32 as prefix or suffix, setting steps are as follows:

A: Scan the Character Set barcode below depending on your needs



B. Scan “Add Prefix” barcode or “Add Suffix” barcode



A:Check the Appendix A Control Character Chart for the character needed and scan the barcode which matches the character to add it as a prefix or a suffix.

### Clear Custom Prefix/Suffix

 Clear Prefix	 Clear Suffix
---	---

### 1.3 To add time prefix/suffix

 Time Prefix	 Time Suffix
 Clear Time Prefix/Suffix	 Show Current Time

### Time Update

Please contact Tera Customer Service for Time Update Plug-in.

The steps to update time are as follows:

1. Connect the scanner and computer with the original USB cable, power up the scanner, launch the time update plug-in
2. Click time update to sync time with computer

## 2. Terminators

Commonly used terminators

 Carriage Return	 Line Feed
 Carriage & Line Feed	 None
 TAB	

## 3. Hiding First/Last Characters

How to hide output characters: scan one of the two barcodes below, and then scan the digit setting code depending on your needs. At most four characters can be hidden.

 Hide First Characters	 Hide Last Characters
 Hide 1 Characters	 Hide 2 Characters
 Hide 3 Characters	 Hide 4 Characters



#### 4. GS Replacement



#### 5. Inverse Barcodes Reading



## Chapter 4 Symbologies

### How to Enable Code Features













Before configuring settings, scan the “Enable Features” setting code first, then pick up programming codes in Code Types section and be sure to scan “Save and Exit” barcode to finish setting.



### 1. Enable/Disable Code Types



 Code 128 On	 Code 128 Off
 EAN-8 On	 EAN-8 Off
 EAN-13 On	 EAN-13 Off
 UPC-E0 On	 UPC-E0 Off
 UPC-E1 On	 UPC-E1 Off
 UPC-A On	 UPC-A Off

 <p>Interleaved 2 of 5 On</p>	 <p>Interleaved 2 of 5 Off</p>
 <p>Matrix 2 of 5 On</p>	 <p>Matrix 2 of 5 Off</p>
 <p>Industrial 2 of 5 On</p>	 <p>Industrial 2 of 5 Off</p>
 <p>IATA 2 of 5 On</p>	 <p>IATA 2 of 5 Off</p>
 <p>Code 39 On</p>	 <p>Code 39 Off</p>
 <p>Code 32 On</p>	 <p>Code 32 Off</p>

 Full ASCII On	 Full ASCII Off
 Codabar On	 Codabar Off
 Code 93 On	 Code 93 Off
 PDF417 On	 PDF417 Off
 QR Code On	 QR Code Off
 Data Matrix On	 Data Matrix Off





## 2. Addenda and Check Digit

### EAN-8

 <p>Transmit Check Digit</p>	 <p>Don't Transmit Check Digit</p>
 <p>2-digit Addenda On</p>	 <p>2-digit Addenda Off</p>
 <p>5-digit Addenda On</p>	 <p>5-digit Addenda Off</p>

### EAN-13

 <p>Transmit Check Digit</p>	 <p>Don't Transmit Check Digit</p>
 <p>2-digit Addenda On</p>	 <p>2-digit Addenda Off</p>

 <p>5-digit Addenda On</p>	 <p>5-digit Addenda Off</p>
---	--

**UPC-E0**

 <p>Transmit Check Digit</p>	 <p>Don' t Transmit Check Digit</p>
---	--

**UPC-E1**




 <p>Transmit Check Digit</p>	 <p>Don' t Transmit Check Digit</p>
 <p>2-digit Addenda On</p>	 <p>2-digit Addenda Off</p>
 <p>5-digit Addenda On</p>	 <p>5-digit Addenda Off</p>

UPC-A

 <p>Transmit Check Digit</p>	 <p>Don' t Transmit Check Digit</p>
 <p>2-digit Addenda On</p>	 <p>2-digit Addenda Off</p>
 <p>5-digit Addenda On</p>	 <p>5-digit Addenda Off</p>

# Appendix A

## Control Character Chart

















DEC	ASCII	Character Set 0	Character Set 1	Character Set 2	Character Set 3	Setting Code
1	SOH	NULL	Home	Ctrl+A	Alt+001	 %%01
2	STX	Ctrl+B	End	Ctrl+B	Alt+002	 %%02
3	ETX	Ctrl+C	Up Arrow	Ctrl+C	Alt+003	 %%03
4	EOT	NULL	Down Arrow	Ctrl+D	Alt+004	 %%04
5	ENQ	NULL	Left Arrow	Ctrl+E	Alt+005	 %%05
6	ACK	NULL	Right Arrow	Ctrl+F	Alt+006	 %%06
7	BEL	NULL	Shift +Tab	Ctrl+G	Alt+007	 %%07
8	BS	Back Space	Back Space	Back Space	Alt+008	 %%08
9	HT	Tab	Tab	Tab	Alt+009	 %%09
10	LF	Enter	Enter	Ctrl+P	Alt+010	 %%0A



















11	VT	NULL	NULL	Ctrl+Q	Alt+011	 %%0B
12	FF	NULL	NULL	Ctrl+R	Alt+012	 %%0C
13	CR	Enter	Enter	Enter	Alt+013	 %%0D
14	S0	F1	Page Up	Ctrl+N	Alt+014	 %%0E
15	S1	F2	Page Down	Ctrl+O	Alt+015	 %%0F
16	DLE	F3	F11	Ctrl+P	Alt+016	 %%10
17	DC1	F4	NULL	Ctrl+Q	Alt+017	 %%11
18	DC2	F5	NULL	Ctrl+R	Alt+018	 %%12
19	DC3	F6	NULL	Ctrl+S	Alt+019	 %%13
20	DC4	F7	NULL	Ctrl+T	Alt+020	 %%14
21	NAK	F8	F12	Ctrl+U	Alt+021	 %%15
22	SYN	F9	F1	Ctrl+V	Alt+022	 %%16

23	TB	F10	F2	Ctrl+W	Alt+023	 %%17
24	CAN	F11	F3	Ctrl+X	Alt+024	 %%18
25	EM	F12	F4	Ctrl+Y	Alt+025	 %%19
26	SUB	NULL	F5	Ctrl+Z	Alt+026	 %%1A
27	Esc	Esc	F6	Ctrl+[	Alt+027	 %%1B
28	FS	ALT+028	F7	Ctrl+\	Alt+028	 %%1C
29	GS	ALT+029	F8	Ctrl+]	Alt+029	 %%1D
30	RS	NULL	F9	Ctrl+^	Alt+030	 %%1E
31	US	NULL	F10	Ctrl+_	Alt+031	 %%1F



















# Appendix B



















## Printable Character Chart



















DEC	ASCII	Setting Code	DEC	ASCII	Setting Code
32	Space		40	(	
33	!		41	)	
34	"		42	*	
35	#		43	+	
36	\$		44	,	
37	%		45	-	
38	&		46	.	
39	'		47	/	











48	0	 %%%30	57	9	 %%%39
49	1	 %%%31	58	:	 %%%3A
50	2	 %%%32	59	;	 %%%3B
51	3	 %%%33	60	<	 %%%3C
52	4	 %%%34	61	=	 %%%3D
53	5	 %%%35	62	>	 %%%3E
54	6	 %%%36	63	?	 %%%3F
55	7	 %%%37	64	@	 %%%40
56	8	 %%%38	65	A	 %%%41



66	B	 %%42	75	K	 %%4B
67	C	 %%43	76	L	 %%4C
68	D	 %%44	77	M	 %%4D
69	E	 %%45	78	N	 %%4E
70	F	 %%46	79	O	 %%4F
71	G	 %%47	80	P	 %%50
72	H	 %%48	81	Q	 %%51
73	I	 %%49	82	R	 %%52
74	J	 %%4A	83	S	 %%53

84	T	 %%54	93	]	 %%5D
85	U	 %%55	94	^	 %%5E
86	V	 %%56	95	_	 %%5F
87	W	 %%57	96	`	 %%60
88	X	 %%58	97	a	 %%61
89	Y	 %%59	98	b	 %%62
90	Z	 %%5A	99	c	 %%63
91	[	 %%5B	100	d	 %%64
92	\	 %%5C	101	e	 %%65

102	f	 %%66	111	o	 %%6F
103	g	 %%67	112	p	 %%70
104	h	 %%68	113	q	 %%71
105	i	 %%69	114	r	 %%72
106	j	 %%6A	115	s	 %%73
107	k	 %%6B	116	t	 %%74
108	l	 %%6C	117	u	 %%75
109	m	 %%6D	118	v	 %%76
110	n	 %%6E	119	w	 %%77

120	x	 %%78	125	}	 %%7D
121	y	 %%79	126	~	 %%7E
122	z	 %%7A	127	DEL	 %%7F
123	{	 %%7B	199	Ç	 %C7
124		 %%7C	231	ç	 %E7