

TR-UM002

Tera

Model No.: 5200C

Wireless Barcode Scanner

User Manual

Ver.04.1.01

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

Email Address: info@tera-digital.com

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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:

If there are no further commands within 20 seconds, the scanner will automatically exit the setting mode.

For the correct use of the product, please read this manual carefully and do not scan setting barcodes 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.

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Properties

One-click matching with all kinds of PC, no need to install drivers.

200M outdoor visual transmission distance (2.4G transmission function)

30M outdoor visual transmission distance (Bluetooth transmission function)

The 16MB internal memory can store more than 200,000 barcodes.

Support normal mode, inventory mode can be switched freely.

Support PC with Windows XP, Win7, Win8, Wince or Mobile operating system, smart phone, tablet, Android device and iOS device.

Support wired and wireless mode. The charging cable can not only be used for charging, but also support HID transmission when the scanner has no power. Power supply of power bank is also supported.

Support Bluetooth HID protocol, SPP protocol and BLE protocol (Bluetooth transmission function)

Plenty of decoding types.

Fast charging technology via handset. Charging time is less than one hour with long battery life. Can be used for about 8 hours on a single full charge.

Specification

Freely switch between wired and wireless mode

Wireless Transmission Protocol: 2.4G+Bluetooth

Processor Core: ARM Cortex 32-bit

Bluetooth Module: Bluetooth 4.1Module

Prompt Mode: LED Light, Buzzer, Vibration

RAM: 16Mb

Power Supply: 650MAH Lithium Battery

Charging Time: Up to 2 Hours

Battery Life: No Less Than 8 Hours

Charging Voltage /Current: 5V/1A

Standby Time: >30 Days

Communication Mode: SPP, HID, BLE, 2.4G
(SDK available)

Resolution: 5 mil

Depth of Field: 6-30 CM

Scan Frequency: 200 times/s

Note:

If the scanner runs out of power, the buzzer will sound for a few seconds and the scanner will turn off automatically. Please stop scanning and charge the scanner in this case.

If you have any questions or concerns about the scanner, please contact us at one of the following email address:

service@tera-digital.com

info@tera-digital.com

Initialization

If scanning other function setting barcodes by mistake in use, which results in the scanning function cannot be used normally, the initialization barcode can be scanned to restore to the initialization state. Module settings cannot be initialized.



Initialization



Version Number



Display Battery Power

Communication Mode

Support the matching mode with computer that support XP、win7、win8、win10

Matching steps of 2.4G receiver

A: Scan the barcode for 2.4G Mode.



B: Scan the barcode below to match Dongle, enter the pairing mode, the indicator light will flash quickly.



C: Plug in the receiver, after hearing the beep, then pairing succeeds, the blue light on the right will always be on.

Note: If the receiver insertion is not detected within 1 minute after the scanner enters the pairing state, the pairing fails and the scanner will make two long low-frequency sounds. The scanner returns to the scanning mode. (or double click to exit the pairing mode and return to the scanning mode)

Matching with handset or PC terminal with Bluetooth function

Bluetooth HID pairing steps

A: Turn on the scanner, long press for 8 seconds or scan the Bluetooth pairing setting barcode to enter the Bluetooth HID pairing mode, the indicator light flashes.



Bluetooth HID Pairing Mode Setting Barcode



Pairing

B: Turn on Bluetooth in the device and find Barcode scanner HID.

C: Click the Bluetooth device to enter the pairing state.

D: When pairing succeeds, it will beep and the indicator light will always be on.

Bluetooth SPP/BLE Pairing Steps

A: Scan “Bluetooth SPP mode” setting barcode. When setting the wireless Bluetooth SPP/BLE mode, it will automatically enter the SPP/BLE mode, and enter the broadcast state by default. You can directly click Barcode Bluetooth SPP/BLE device in the software to make pairing.

B: Find “BarCode Bluetooth SPP/BLE” in the software.

C: Click the Bluetooth device to enter the pairing state.

D: Hearing one beep sound indicates that pairing succeeds, and the blue indicator light will always be on.



Bluetooth SPP mode



Bluetooth BLE mode

Modify Bluetooth Name

Customize Bluetooth name

A: Scan “Customize Bluetooth name” setting barcode



B: Scan and customize to generate a barcode with less than 16 characters to change the name (unlimited symbology)

Android、iOS system keyboard call out/hide

Bluetooth transmission function

A: Scan to call out or hide corresponding keyboard.



Call out or hide iOS keyboard



Double-click to call out/hide HID keyboard On



Double-click to call out/hide HID keyboard Off

B. Please contact the manufacturer for inputting method APP if Android System keyboard calling-out is needed.

Transmission Mode Settings

The scanner has two working modes in wireless transmission: “instant upload mode” and “storage mode”

In the instant upload mode, the scanned barcodes are uploaded to the receiver in real time. The scanner will make a short low-frequency beep if transmission succeeds, and three short low-frequency beeps as alarm if fails. The scanned barcodes will be lost if transmission fails in the instant upload mode.



Instant Upload Mode

The storage mode is recommended if the scanner works beyond the range of 2.4G transmission.

In the storage mode, the scanner stores the scanned barcodes in the internal memory first. Within the required range of wireless

transmission, the total number of barcodes stored in the internal memory can be viewed by scanning the “total storage” setting barcode, and the stored barcodes can be uploaded to the computer by scanning the ‘data upload’ setting barcode.

In the storage mode, the scanner will make a short beep after scanning one barcode, and the scanned barcode will be automatically stored in the scanner memory. If the internal storage is full, the scanner will make three short low-frequency beeps as alarm.



Storage Mode

Check the number of barcodes stored in the storage by scanning “total storage” barcode.



Upload stored barcodes by scanning “Data Upload” barcode. The barcodes stored in the scanner will not be automatically deleted after uploading. Users can repeatedly upload the stored data by scanning “Data Upload”.



Note: Please ensure that the wireless signal is well connected when uploading data, or upload data when data cable is connected.

Clear the barcodes stored in the storage by scanning the “clear data” barcode. The barcodes cannot be uploaded again after they are cleared. Please confirm whether the data has been uploaded before clearing.



Sound Settings

Turn on/off sound or vibration barcode



Mute



Sound On



Vibration On*



Vibration Off

Sleep Time Setting



Sleep time 1 minute



Sleep time 5 minute



Sleep time 30 minute



Always On



Sleep immediately

Data encoding format



*GBK data encoding format



UTF

Keyboard Language Setting



*English



Japanese



International keyboard



German



French



Spanish



Italian

End Character Settings



Add carriage return at the end



Add line break at the end



Add carriage return and line break at the end



Add Tab at the end



No addition at the end

Upper/lower Case Settings

Letter conversion

The out result can be set to be all upper case or lower case when the output of barcode contains letters.



Cast to lower case



Cast to upper case



Case swap



No case conversion

Barcode Type On/Off Settings

Please contact manufacturer if more barcode settings are needed.

Hide Prefix/Suffix

A: Scan 'Hide prefix' or 'Hide suffix' setting barcode



















Hide the front of barcode



Hide the end of barcode

B: Choose the number of digits to hide

 Hide 1 digit	 Hide 2 digits
 Hide 3 digits	 Hide 4 digits
 Hide 5 digits	 Hide 6 digits
 Hide 7 digits	 Hide 8 digits
 Hide 9 digits	 Hide 10 digits
 Hide 11 digits	 Hide 12 digits
 Hide 13 digits	 Hide 14 digits
 Hide 15 digits	 Hide 16 digits

C: Please scan the following barcodes below if need to cancel the hidden starting/end characters.



Unhide starting character



Unhide end character

Add Time as Prefix/Suffix

A: Scan the “clock prefix” setting code to add current scanning time ahead of the output content of the barcode.



B: Scan the “clock suffix” setting code to add current scanning time behind the output content of the barcode.



C: Scan “turn off clock prefix/suffix” to cancel the scanning time ahead of/behind the output content of the barcode.



D: Scan “display the current time” to display the current time in the file.



Clock Update Settings

A: Connect scanner and computer with USB cable, turn on the computer and click to open time synchronization tool Update_time_V1.1.

B: Click the time-updating bottom to synchronize with the computer time.

Note: Please contact customer service for time synchronization software if needed at the following email address:

service@tera-digital.com

info@tera-digital.com

GS Character Replacement Instruction:

1、 Turn off GS replacement function.
GS character will not be replaced after scanning the barcode below.



2、 Replace GS character.
A: Scan the GS character replacement setting barcode below.



B: Find the character to be replaced in the <prefix/suffix character table> and scan the corresponding barcode for setting.

Prefix/Suffix Settings

The prefix/suffix settings are divided into two parts: control character table part and printable character table part.

Printable character table can be output directly through HID keyboard without escape.

Control character table cannot be directly output through HID keyboard, need to escape to output through HID keyboard

1. The steps of setting the printable character table are as follows:

A: Scan “set prefix” or “set suffix” setting barcode



Set Prefix



Set Suffix

B: Find the character to be added in Appendix B, scan the barcode of the character, then the character will be successfully added.

2. The steps of setting the control character table are as follows:

A: Scan the corresponding character set setting barcode.

Set escape character set 0



Set escape character set 1



Set escape character set 2



Set escape character set 3



B: Scan “set prefix” or “set suffix” setting code.



Set prefix



Set suffix

C. Find the character to be added in Appendix A, scan the barcode of the character, then the character will be successfully added.

D. Scan the barcode below to cancel the added prefix/suffix if needed.














Cancel prefix















Cancel suffix







Appendix A Control Character Table

Dec	ASCII	Character Set 0	Character Set 1	Character Set 2	Character Set 3
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					

1	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	Right Arrow	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 Table

ASCII	Setting barcode	ASCII	Setting barcode
space	 %%20	,	 %%27
"	 %%22	( %%28
#	 %%23	*	 %%37
\$	 %%24	+	 %%2B
%	 %%25	,	 %%2C
/	 %%2F	8	 %%38

0	 %%30	9	 %%39
1	 %%31	:	 %%3A
2	 %%32	;	 %%3B
3	 %%33	<	 %%3C
4	 %%34	=	 %%3D
5	 %%35	>	 %%3E
6	 %%36	?	 %%3E
7	 %%37	@	 %%40
!	 %%21	-	 %%2D
)	 %%29	A	 %%41
.	 %%2E	B	 %%42

&	 %%26	C	 %%43
D	 %%44	N	 %%4D
E	 %%44	O	 %%4F
F	 %%46	P	 %%50
G	 %%47	Q	 %%51
H	 %%48	R	 %%52
I	 %%49	e	 %%65
J	 %%4A	f	 %%66
K	 %%4B	g	 %%67
L	 %%4B	h	 %%68
M	 %%4D	i	 %%69

j	 %%6A	o	 %%6F
S	 %%53	p	 %%70
T	 %%54	q	 %%71
U	 %%55	r	 %%72
V	 %%56	s	 %%73
W	 %%57	\	 %%5C
X	 %%58]	 %%5D
Y	 %%59	^	 %%5D
Z	 %%5A	_	 %%5F
[ %%5B	`	 %%60
n	 %%6E	a	 %%60

b	 %%62	m	 %%6C
c	 %%63	Ç	 .
d	 %%64	t	 %%74
w	 %%77	u	 %%75
x	 %%78	v	 %%76
y	 %%79	Ç	 .
z	 %%7A	k	 %%6B
{	 %%7B	l	 %%6C
l	 %%7C		