TR-UM018

Model No.: HW0008L / 1100L

Laser 1D Barcode Scanner

Ver.01.1.02

User Manual

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

Contents

Symbologies

UPC-A

On*

Off

Transmit Check Digit*

Don’t Transmit Check Digit

Transmit System Digit*

Don’t Transmit System Digit

UPC-E

On*

Off

Transmit Check Digit*

Don’t Transmit Check Digit

Transmit System Digit*

Don’t Transmit System Digit

UPC-E to UPC-A

On

Off*

UPC-E1

On

Off*

Transmit Check Digit*

Don’t Transmit Check Digit

Transmit System Digit *

Don’t Transmit System Digit

UPC-E1 to UPC-A

On

Off*

Bookland EAN

On

Off*

EAN-8

On*

Off

EAN-13

On*

Off

UPC/EAN Addenda

On

Off*

ISBT 128

*On

Off

Code 128

On*

Off

Code 39

On*

Off

Validate

*No Check Character

Transmit Check Digit

*Don’t Transmit Check Digit

Code 39 Full ASCII

On

Off*

Code 32

On

Off*

Note: Code 32 Pharmaceutical is a variant of the Code 39 symbology. With Code 32 On, Code 39 reading accuracy will degrade. Code 32 Pharmaceutical can only be read when Code 39 is enabled and no check digit is required.

Code 93

On

Off*

Codabar (NW-7)

On

Off*

GS1 128

On*

Off

Interleaved 2 of 5

On*

Off

Discrete 2 of 5

On

*Off

Chinese 2 of 5

On

Off*

RSS-14

On

*Off

Code 11

On

Off*

MSI

On

Off*

Code ID

On

Off*

Code ID Reference

- A = UPC-A, UPC-E, UPC-E1, EAN-8, EAN-13
- B = Code 39, Code 32
- C = Codabar
- D = Code 128, ISBT 128
- E = Code 93
- F = Interleaved 2 of 5
- G = Discrete 2 of 5
- J = MSI
- K = UCC/EAN-128
- L = Bookland EAN
- M = Trioptic Code 39
- N = Coupon Code
- R = RSS-14, RSS-Limited, RSS-Expanded

Scan Modes

Manual Trigger Mode*

Continuous Scan Mode

Wireless Settings

Enter/Exit Programming Mode

You are able to change any settings by scanning configuration codes attached in this user manual. First, scan “Enter” symbol, then programming codes needed, finally, scan “Exit” symbol to save the settings.

Enter

Exit

Note: It is not necessary for scanners whose firmware version is above 1.18D to scan Enter/Exit symbols to set up the scanner.

Factory Default - Wireless

Scan the barcode below to reset the scanner to factory default settings for wireless connection.

Factory Default

Custom Defaults

By setting up custom defaults, you can save the settings which you use often as default settings for wireless connection. First, scan Enter symbol, then configuration codes needed, finally scan Exit symbol. The custom defaults will replace the original factory default settings. When the setting is done, the scanner won't restore to factory defaults even if the factory default code is scanned.

Custom Defaults

Firmware Version

Show Firmware Version

Beeper Volume

High*

Medium

Low

Off

Battery Level

Battery Level

Sleep Timer

30s

1 min

2 mins

5 mins*

10 mins

30 mins

Never

Immediately

Character Encoding

GBK (Notepad, Excel)

Unicode (Word)

Operation Modes

Real-time Mode

Real-time Mode*

Storage Mode

Storage Mode

Upload All Codes

Total Records

Clear All Codes

Communications

USB-COM

Scan the following code to program the scanner to emulate a regular RS232-based COM Port. If you are using a Windows PC, you will need to install a driver. The driver will use the next available COM Port number. Please contact customer service for the driver.

Note: No extra configuration is necessary. The scanner can function as a USB serial port with both 2.4G USB dongle and USB cable connection.

USB-COM

2.4G Wireless

It functions the way a USB HID keyboard does.

2.4G Wireless

2.4G Wireless Pairing

Receiver Pairing

The USB receiver is compatible with Win XP, Win7, Win8, Win10, macOS, etc.

Step 1: Scan 2.4G Wireless symbol

Note: With 2.4G wireless pairing, the scanner will connect to the receiver which it has paired with the last time in preference.

2.4G Wireless

Step 2: Scan Pairing symbol.

Pairing

Step 3: Plug in the USB receiver. Wait for seconds till the scanner beeps, which indicates that pairing has succeeded.

Bluetooth Settings

(This feature is not available for Model HW0008L)

Bluetooth HID Pairing Instructions

When successfully connected, the scanner can input data into text field in the way a virtual keyboard does.

Step 1: Scan “Bluetooth HID” barcode.
Note: The scanner prefers to connect to the receiver it has connected to before.

Bluetooth HID

Step 2:
Scan the “Pairing” barcode to get the scanner ready for pairing, with the LED indicator flashing blue.

Pairing

Step 3:
Enable Bluetooth on your device and locate a device named “BarCode Scanner HID”.

Step 4:
Click/Tap the BarCode Scanner HID to pair your device with the scanner.

Step 5:
The scanner beeps once and the indicator turns into solid blue, indicating that the pairing has succeeded.

Note:
When the scanner is ready for pairing, a double press on the trigger or not detecting any pairing request within 1 minute will cause the scanner to exit pairing

Bluetooth SPP Pairing Instructions (Not available for iOS)

This connection mode only works with application designed for SPP purpose. If you are not familiar with Bluetooth SPP, please use Bluetooth HID.

Step 1: Scan “Bluetooth SPP” symbol.
You need to launch a specifically designed application (can be downloaded from application store) to get the scanner paired with your device via Bluetooth SPP.

Bluetooth SPP

Step 2: Locate a device named “BarCode Scanner SPP” in the application.

Step 3: Tap/click “BarCode Scanner SPP” to pair it with your device.

Step 4: The scanner beeps once and the LED turns to solid blue, indicating the pairing has succeeded.

Bluetooth BLE Pairing Instructions

This connection mode only works with application designed for BLE purpose. If you are not familiar with Bluetooth BLE, please use Bluetooth HID.

Step 1: Scan “Bluetooth BLE” symbol.
You need to launch a specifically designed application (can be downloaded from application store) to get the scanner paired with your device via Bluetooth BLE.

Bluetooth BLE

Step 2: Locate a device named “BarCode Scanner BLE” in the application.

Step 3: Tap/click “BarCode Scanner BLE” to pair it with your device.

Step 4: The scanner beeps once and the LED turns into solid blue, indicating that the pairing has succeeded.

Bluetooth HID Settings

Hold the trigger for 8s to get the scanner ready for Bluetooth HID pairing.

on

Off

Virtual HID Keyboard Settings for iOS

Show/Hide iOS Virtual HID Keyboard

Double Press Trigger to Show Keyboard On

Double Press Trigger to Show Keyboard Off

Note: If you are using an Android device and the onscreen keyboard gets disabled whenever the scanner is connected with your device, please contact your device manufacturer for help. (Due to Android system limits, Android devices will disable the onscreen keyboard when they are connected with a barcode scanner.)

Bluetooth HID Transfer Rate

If the transmitted data gets lost or garbled, try to reduce the transfer rate.

Fast

Medium*

Slow

Ultra-slow

Change Bluetooth Name

How to change the Bluetooth Name

Step 1: Scan “Customize Bluetooth Name” symbol.

Customize Bluetooth Name

Step 2: Scan target characters from the Character Chart in the appendix.

Note: The default name is Barcode Scanner. The target characters selected will be the new Bluetooth Name when the setting is done.

a) The maximum configuration of Bluetooth Name is 16 characters. If inputted characters are more than 16 characters, the scanner picks up the first 16 characters as the new Bluetooth name.

b) Construction of Bluetooth Name: Name + Profile. Users can only modify the name but not the profile.

Check Bluetooth Name

Show Bluetooth Name

Note: Only when the scanner is in Bluetooth HID/SP-P/BLE mode, can this barcode take effect.

Keyboard Country Layout

The scanner defaults to a US keyboard. To ensure that the scanner inputs scanned data correctly, the keyboard layout of the scanner should be aligned with that of host devices. To change the layout, scan the appropriate Keyboard Country barcode below.

United States

Germany

France

Spain

Italy

Japan

Belgium (French)

Portugal

United Kingdom

Germany (iOS)

Brazil (Portuguese)

Russia

Czech

Italy 142

Turkey Q

Turkey F

Sweden/Finland

Mexico (Spanish)

Denmark

Norway

Croatia

Switzerland (German)

Switzerland (French)

Dutch

Hungary

Poland

Canada (French)

Latin America

Slovak

International

Keyboard Conversion

Conversion Off*

Convert All Characters to Upper Case

Convert All Characters to Lower Case

Invert Case of All Characters

Note: The settings are only valid in standard keyboard input mode and when inputting control characters with keyboard emulation.

Group Separator Replacement

This selection enables you to replace the hidden GS character with other printing character so that it can be displayed on host devices. If you don't want it to be displayed, scan Customize Group Separator symbol then 1D symbol from ASCII character chart.

Custom GS Replacement

Step 1: Scan the barcode below.

Customize Group Separator

Step 2: Scan appropriate symbols from the Appendix ASCII Character Chart to replace the GS control character with the selected characters.

No GS Replacement

Don't Replace GS Characters

Prefix and Suffix Selections

The maximum size of a prefix or suffix configuration is 32 characters.

Add a Prefix

Step 1: Scan "Add Prefix"

Add Prefix

Step 2: Determine the appropriate value from the ASCII chart and scan the barcodes that represent the value accordingly in sequence.

Clear Prefixes

Step 1: Scan “Add Prefix” symbol
Step 2: Scan “Exit” symbol
A factory reset will clear prefixes as well.

Add a Suffix

Step 1: Scan “Add Suffix”

Add Suffix

Step 2: Determine the appropriate value from the ASCII chart and scan the barcodes that represent the value accordingly in sequence.

Clear Suffixes

Step 1: Scan “Add Suffix” symbol
Step 2: Scan “Exit” symbol
A factory reset will clear suffixes as well.

Hide the First/Last Characters

The maximum size of a hiding configuration is 4 digits. This selection enables you to drop characters from the beginning or the end of the data.
Step 1: Scan “Hide the first characters” or “Hide the last characters” symbol.

Hide the first characters

Hide the last characters

Step 2: Scan appropriate symbols from the following codes.

1 digit

2 digits

3 digits

4 digits

Clear Character Hiding Settings

Step 1: Scan “Hide the First Characters” or “Hide the Last Characters” symbol.
Step 2: Scan “Exit” symbol.
A factory reset will clear the settings as well.

Terminators

Carriage Return<CR>(0x0D)*

Line Feed<LF>(0x0A)

<CR> & <LF>(0x0D,0x0A)

TAB <HT>(0x09)

None

Appendix – ASCII Character Chart

Note: The first 31 characters in the ASCII chart are non-printable characters, and the 32-127 characters are printable characters.

HEX	ASCII	Char	Symbol
01	01	SOH	%%01
02	02	^B	%%02
03	03	^C	%%03
04	04	EOT	%%04
05	05	ENQ	%%05
06	06	ACK	%%06

HEX	ASCII	Char	Symbol
07	07	BEL	 %%07
08	08	BS	 %%08
09	09	HT	 %%09
0A	10	LF	 %%0A
0B	11	VT	 %%0B
0C	12	FF	 %%0C
0D	13	CR	 %%0D
0E	14	F1	 %%0E

HEX	ASCII	Char	Symbol
0F	15	F2	 %%0F
10	16	F3	 %%10
11	17	F4	 %%11
12	18	F5	 %%12
13	19	F6	 %%13
14	20	F7	 %%14
15	21	F8	 %%15
16	22	F9	 %%16

HEX	ASCII	Char	Symbol
17	23	F10	%%17
18	24	F11	%%18
19	25	F12	%%19
1A	26	SUB	%%1A
1B	27	ESC	%%1B
1C	28	FS	%%1C
1D	29	GS	%%1D
1E	30	RS	%%1E

HEX	ASCII	Char	Symbol
1F	31	US	%%1F
20	32	SP	%%20
21	33	!	%%21
22	34	"	%%22
23	35	#	%%23
24	36	$	%%24
25	37	%	%%25
26	38	&	%%26

HEX	ASCII	Char	Symbol
27	39	`	%%27
28	40	(	%%28
29	41	)	%%29
2A	42	*	%%2A
2B	43	+	%%2B
2C	44	,	%%2C
2D	45	-	%%2D
2E	46	.	%%2E

HEX	ASCII	Char	Symbol
2F	47	/	%%2F
30	48	0	%%30
31	49	1	%%31
32	50	2	%%32
33	51	3	%%33
34	52	4	%%34
35	53	5	%%35
36	54	6	%%36

HEX	ASCII	Char	Symbol
37	55	7	%%37
38	56	8	%%38
39	57	9	%%39
3A	58	:	%%3A
3B	59	;	%%3B
3C	60	<	%%3C
3D	61	=	%%3D
3E	62	>	%%3E

HEX	ASCII	Char	Symbol
3F	63	?	%%3F
40	64	@	%%40
41	65	A	%%41
42	66	B	%%42
43	67	C	%%43
44	68	D	%%44
45	69	E	%%45
46	70	F	%%46

HEX	ASCII	Char	Symbol
47	71	G	%%47
48	72	H	%%48
49	73	I	%%49
4A	74	J	%%4A
4B	75	K	%%4B
4C	76	L	%%4C
4D	77	M	%%4D
4E	78	N	%%4E

HEX	ASCII	Char	Symbol
4F	79	O	 %%4F
50	80	P	 %%50
51	81	Q	 %%51
52	82	R	 %%52
53	83	S	 %%53
54	84	T	 %%54
55	85	U	 %%55
56	86	V	 %%56

HEX	ASCII	Char	Symbol
57	87	W	 %%57
58	88	X	 %%58
59	89	Y	 %%59
5A	90	Z	 %%5A
5B	91	[	 %%5B
5C	92	\	 %%5C
5D	93	]	 %%5D
5E	94	^	 %%5E

HEX	ASCII	Char	Symbol
5F	95	_	%%5F
60	96	'	%%60
61	97	a	%%61
62	98	b	%%62
63	99	c	%%63
64	100	d	%%64
65	101	e	%%65
66	102	f	%%66

HEX	ASCII	Char	Symbol
67	103	g	%%67
68	104	h	%%68
69	105	i	%%69
6A	106	j	%%6A
6B	107	k	%%6B
6C	108	l	%%6C
6D	109	m	%%6D
6E	110	n	%%6E

HEX	ASCII	Char	Symbol
6F	111	o	 %%6F
70	112	p	 %%70
71	113	q	 %%71
72	114	r	 %%72
73	115	s	 %%73
74	116	t	 %%74
75	117	u	 %%75
76	118	v	 %%76

HEX	ASCII	Char	Symbol
77	119	w	%%77
78	120	x	%%78
79	121	y	%%79
7A	122	z	%%7A
7B	123	{	%%7B
7C	124	|	%%7C
7D	125	}	%%7D
7E	126	~	%%7E

HEX	ASCII	Char	Symbol
7F	127	DEL	
C7	199	Ç	
E7	231	ç	

HW0008L		
LED Indicator	LED1, Flash Once	Normal Code - Read Successfully
	LED2, Solid Blue	Connected
	LED3, Solid Red	Charging
	LED2, Flash Fast	Scanner is ready to pair up
	Two LEDs flash slowly	Scanner is upgrading
Beeper	1 long beep (Low to High)	Power up
	1 long beep (High to Low)	Power off
	1 short beep (Low Pitch)	Normal Code - Read Successfully/Pairing Succeeded
	1 short beep (Low to High)	Barcodes have been stored in memory
	1 short beep (High to Low)	Configuration Code - Read Successfully
	3 short beeps (Low Pitch)	Transmission Failed/No Memory Available
	5 short beeps (Low Pitch)	Battery running low
	2 short beeps (Low Pitch)	Disconnected
	2 short beeps (High Pitch)	Configuration Failed

If you need any product support, please contact our customer service.

Important Notice:

Please attach your Amazon Order Number and Product Model Number in the email.

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