

REALINN RL1100L
Wired Barcode Scanner
User Manual

Service Mailbox:

server@realinn.cn

V1

In order to correctly use the bar code scanner, please read the instruction carefully and do not arbitrarily scan the settings code otherwise some settings may not be available temporarily.

Please keep this instruction for reference.

If you have any question or concern about the operation of the scanner, please contact us at following Email:

server@realinn.cn

You are suggested to write down the model & the specific scenario and consult the maintenance person should you find the scanner abnormal.

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Technical Parameter

Model	RL1100L	
Scanning type	Bi-directional	
Scanning mode	manual trigger mode/continuous scanning mode	
Operating Current	40ma(operation mode); 28ma(standby mode)	
Indication	Buzzer & LED	
Printing Contract	≥25%	
Light source	650 nm visual laser diode	
Temperature	Working : -20°C-50°C Storage: -40°C-60°C	
Depth of Field	4 mil	2mm-85mm
	10mil	2mm-320mm
	15.6mil	5mm-580mm
	35mil	10mm-900mm
CPU	ARM 32-bit Cortex	
Bit Error rate	1/5million	
Scanning width	5-30cm	
Decoding speed	300scans/sec	
Scanning angle	rotor angle±30°,inclination± 55°,declination ± 60°	
Drop test	1.8m	
Certificate	CE, FCC, RoHS , IP54	
Life	Button life 5000,000 times ; laser life:12000 hours	
Applicable 1D barcode	UPC/EAN, with complementary UPC/EAN, Code128, Code 39, Code 39 Full ASCII, Coda bar,industrial/Interleaved2 of 5, Code93,MSI,Code11, ISBN, ISSN, etc	

Packing List

Barcode scanner *1

User manual *1

Feature:

This is a wired scanner,plug and play,no driver needed.

FAQ

Q1: If i scan a product barcode, will it include the name of the product in the file automatically?

Answer:

The scanner works like a keyboard. The scanner does not interpret what the barcode is, it just "types" out a string of alphabet numeric characters that the barcode represents.

it's up to the database software you are using to interpret what that string of characters means. Once you acquire the barcodes, you have to correlate them to something more meaningful by either purchasing a software service that will interpret the barcode and relate it to a product, or you can use your own internal inventory system to assign the barcodes to specific products.

After creating the relationship between your barcode and the corresponded information ,when you enter the barcode into the software by the scanner,your software will look up the barcode and then output the related information of your product.

Q2: Why can' t the scanner read the barcodes?

Answer:

Some barcode types are not commonly used so the setting is off by default.You need

to activate a specific barcode type to get it to work .

If you don't know the exact type of barcode that you are referring to, please contact **server@realinn.cn** with the following information, our customer service will help you to solve the problem.

- 1) A good quality picture of your barcode
- 2) The P/N of the scanner you have

Q3: Why does scanner can not read the barcode correctly. When I use the scanner to read a barcode from the label, I get a different result from what it printed on the label.

E.g 1. When I use the scanner to read a UPCE barcode "08960007" , scanning result is 8960007. The first digit is missing.

Solution: To set the scanner to read the first digit of UPCE , please read the "UPCE System Digit-on" code on page 14.

E.g 2. There are two separate barcodes together. It scanned the first 12 digits in the barcode but not the last five.

Solution: To set the scanner to read the extra code of UPCA, please scan the code" UPCA 5 Extra Code-on" on page 13.

E.g 3. The original barcode is "abc12345" , the scanning result is "+A+B+C+D12348" , the scanner put "+" between character.

Solution: The scanner was set to not read the Code 39 Full ASCII code by default. To set the scanner to read Code 39 Full ASCII code , please scan the code"Full ASCII-on" on page 16.

E.g 4. The original UPCE barcoe is "01234565" , but the program ask for filling in 12 digits on the cell.

Solution: Please scan the setting code "UPCE to UPCA-On" on page 14.

If none of above situations is your query, please send us a clear picture of the barcode and the result you get, our customer service will help you to solve the problem.

Q4. Is there any barcodes to remove auto-enter after every scanning?

Answer:

To remove the auto-enter, please read the setting code "Disable suffix" on page 8.

Q5. How to add "TAB" ?

Answer:

To set up the scanner to add "Tab" , please read the setting code "Tab" on page 8.

Q6. How to restore the scanner ?

Answer:

To restore the scanner , please read the setting code " restore default "on page 7.

Troubleshooting

Problem	Possible Reason	Solution
After inserted the USB cable into the USB port,the indication light doesn' t flash and without a beep.	The PC' s USB port is out of condition.	Connect the USB receiver to another USB port or try to connect to other computers.
	The USB cable or the scanner is out of condition.	Please contact server@realinn.cn for the replacement.
Press the trigger, the scanner has no reaction. The red laser light does not show up or become a dot.	The laser head is out of condition.	Please contact server@realinn.cn for the replacement.
The connection is well,the laser light flashes and scanner beeps. But the barcode can not be uploaded to computer.	The scanner was set to USB virtual com.	Scan "restore default" code on page 7.

Optional Function Setting

This Wired scanner is plug and play.

1. Restore Factory Setting

** Scan following setup code, the scanner will return to factory condition.



Restore default

2. Scanning Mode Setting

2.1. Manual Trigger mode (default):

Pressing the trigger, the red laser light will show up and reads the barcode. When release the trigger, the red laser light will do off.

** Scan the following code to set the scanner to Manual trigger mode.



Manual trigger mode

2.2. Continuous Scanning Mode

There is no need to press the trigger in this mode. When read a barcode successfully, the laser light will disappear a second and then the laser light will come up again, and ready to read another barcode.

** Scan the following code to set the scanner to Continuous Scanning Mode.



Continuous Scanning mode

3. End Character Setting

By default, the scanner does a carriage return after scanning a barcode (the same as pressing the "enter" key on the keyboard)



CR



LF + CR



Tab



Disable suffix

4. Beep setting



Beep - on



Beep - off



High Tone -High volume



High Tone-Low volume



Medium Tone-High volume



Medium Tone-Low volume

** scan one of the following barcode to select the decoding beep mode.

Note: If the scanner is on beep off and you want the scanner beeps on high tone-high volume(for example), please scan the setting code "Beep-on "first.

5. Case Sensitivity Setting

The scanner can change all the letter cases of barcode into uppercase or lowercase.

Letter case of barcodes can be altered through scanning correspondent bar code below.



All Capital



All Lowercase



Swap Capital/Lowercase



Cancel Capital/Lowercase settings

6. All Barcode Type Setting

If some barcode can not be read, please scan the following setup code to let the scanner to read all types of barcodes.



Scan all 1D Code-ON

Note: This setting may affect the scanning speed. If the scanning speed is affected, please restore the scanner to factory default settings.

7. Interface Setting

7.1. USB-HID mode

In the HID protocol, there are 2 entities: the "host" and the "device".

The host communicates with the device and receives input data from the device on actions performed by the human.

The most common example of a "host" is a PC.

The "device" is the entity that directly interacts with a human, such as a keyboard or mouse.

** To set the scanner as a keyboard to enter the barcode , please unplug the USB receiver and plug it in again, and then read the following code "USB_HID"



USB-HID

7.2. USB virtual COM mode

In USB virtual COM mode, the scanner needs to work with driver and serial software.

Expected final behavior is that even if you open up another page , the scanned information will show up in the window of serial software.

















The scanned barcode won't come up on universal software like notepad, excel, word etc.

Please contact us if you need to set it to USB virtual COM mode, we will send you the driver and the serial software.

8. Keyboard Language Setting

The scanner supports 16 international keyboards:



You are suggested to set the keyboard type of the scanner to be in agreement with that in real use by scanning the correspondent barcode listed below.

 USA	 Japan
 France	 UK
 Spain	 Italy
 Germany(Austria)	 Brazil
 Turkey-F	 Turkey-Q
 Greece	 Hungary
 Czech Slovakia	 Norway
 Denmark	 Finland(Sweden)

9. Barcode Type ID Setting















To show the barcode type ID, please scan the setup code" Barcode ID - ON" .

















To close the barcode type ID, please scan the setup code" Barcode ID - OFF" .

















Bar Code ID Output			
			
Bar Code ID-ON		Bar Code ID-OFF*	
All Bar Codes Types and Bar Code ID			
UPCA	A	Interleaved 2 of 5	N
UPCE	B	ITF-6	O
EAN8	C	ITF-14	P
EAN13	D	Matrix 2 of 5 (Europe)	S
ISSN	E	Matrix 2 of 5 (Japan)	T
ISBN	F	industrial 25	U
CODE128	G	Standard 25	V
GS1-128	H	CODEBAR	W
ISBT 128	J	Plessey	X
CODE39	K	MSI-Plessey	Y
CODE93	L	GS1 Databar	Z
CODE11	M		

10. Barcode setting

The code ending with symbol * means default setting.

1D Code (white in black background)	
 White in black background-ON	 White in black background-OFF*
UPCA	
 UPCA-ON*	 UPCA-OFF
 UPCA Check Digit-ON*	 UPCA Check Digit-OFF
 UPCA System Digit-ON*	 UPCA System Digit-OFF
 UPCA 2 Extra Code-ON	 UPCA 2 Extra Code-OFF*
 UPCA 5 Extra Code-ON	 UPCA 5 Extra Code-OFF*
UPCE	
 UPCE-ON*	 UPCE-OFF

 UPCE Check Digit-ON*	 UPCE Check Digit-OFF
 UPCE System Digit-ON*	 UPCE System Digit-OFF
 UPCE 2 Extra Code-ON	 UPCE 2 Extra Code-OFF*
 UPCE 5 Extra Code-ON	 UPCA 5 Extra Code-OFF*
 UPCE to UPCA-ON	 UPCE to UPCA-OFF*
EAN8	
 EAN8-ON*	 EAN8-OFF
 EAN8 Check Digit-ON*	 EAN8 Check Digit-OFF
 EAN8 2 Extra Code-ON	 EAN8 2 Extra Code-OFF*

 EAN8 5 Extra Code-ON	 EAN8 5 Extra Code-OFF*
 EAN8 to EAN13-ON	 EAN8 to EAN13-OFF*
EAN13	
 EAN13-ON*	 EAN13-OFF
 EAN13 Check Digit-ON*	 EAN13 Check Digit-OFF
 EAN13 2 Extra Code-ON	 EAN13 2 Extra Code-OFF*
 EAN13 5 Extra Code-ON	 EAN13 5 Extra Code-OFF*
CODE 39	
 CODE39-ON*	 CODE39-OFF
 Output Start&End Digit-On	 Output Start&End Digit-OFF*



CODE39 Full ASCII-ON



CODE39 Full ASCII-OFF*

CODE 32



CODE32-ON



CODE32-OFF*

CODE 128



CODE128-ON*



CODE128-OFF

CODE 93



CODE93-ON*



CODE93-OFF

CODE 11



CODE11-ON



CODE11-OFF







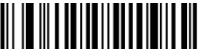





CODEBAR



CODEBAR-ON*



CODEBAR-OFF

	
Show CODABAR start/stop digit	Hide CODABAR start/stop digit
Industrial 2 of 5	
	
Industrial 2 of 5-ON*	Industrial 2 of 5-OFF
Interleaved 2 of 5	
	
Interleaved 2 of 5-ON*	Interleaved 2 of 5-OFF
ISBN	
	
ISBN-ON*	ISBN-OFF
MSI-Plessey	
	
MSI-Plessey-ON	MSI-Plessey-OFF*
Plessey	
	
Plessey-ON	Plessey-OFF*

11. Add/Delete Character

To add prefix

For example : Add prefix XY

(Check ASCII Barcode Table, X=58, Y=59)

Please scan the following code in order:

" Display Prefix" > "Add Prefix" > Parameter Code "5" "8" "5" "9" > "save setting"





To add suffix

For example : Add suffix XY

(Check ASCII Barcode Table, X=58, Y=59)

Please scan the following code in order:

" Display Suffix" > "Add suffix" > Parameter Code "5" "8" "5" "9" > "save setting"

Add Prefix/Suffix	
 Display Prefix	 Add Prefix
 Display Suffix	 Add Suffix

To delete prefix

For example : Delete number 123(three characters)from barcode" 123456789" , will shows "456789" .

Please scan the following code in order:

"Delete prefix character" >" Sets the number of prefix digits deleted" >" Parameter code "3" (No need to scan "Save settings")

To delete suffix

For example : Delete number 789(three characters)from barcode" 123456789" , will shows "123456" .

Please scan the following code in order:

"Delete prefix character" > " Sets the number of prefix digits deleted" > " Parameter code "3" (No need to scan "Save settings")

Note:

1. There is no need to scan the setting code " save settings " when program the scanner delete suffix.
2. Once the scanner is set to delete characters from the barcode, all types of barcodes will be deleted corresponding characters.
3. The maximum numbers of characters can be deleted from barcode is 16. Delete 8 prefix chracters and delete 8 suffix characters separately from barcodes.
4. If you want to cancel the previous setting, please scan the " Restore default - 1" on page 7.

Delete Prefix/Suffix



Delete prefix character



Sets the number of prefix digits deleted



Delete suffix character



Sets the number of suffix digits deleted

Parameter Code



0



1



2



3



4



5



6



7



8



9



A



B



C



D



E



F



Save settings

ASCII Barcode Table

Hex	Dec	Description	Hex	Dec	Description
00	0	NUL	22	34	"
01	1	SOH	23	35	#
02	2	STX	24	36	\$
03	3	ETX	25	37	%
04	4	EOT	26	38	&
05	5	ENQ	27	39	'
06	6	ACK	28	40	(
07	7	BEL	29	41)
08	8	BS(Backspace)	2A	42	*
09	9	HT(Tab)	2B	43	+
0A	10	LF(CTRL J)	2C	44	,
0B	11	VT(CTRLK)	2D	45	—
0C	12	FF(CTRL L)	2E	46	。
0D	13	CR(Enter)	2F	47	/
0E	14	SO(CTRL N)	30	48	0
0F	15	SI(CTRL O)	31	49	1
10	16	DLE(CTRL P)	32	50	2
11	17	DC1(CTRL Q)	33	51	3
12	18	DC2(CTRL R)	34	52	4
13	19	DC3(CTRL S)	35	53	5
14	20	DC4(CTRL T)	36	54	6
15	21	NAK(CTRL U)	37	55	7
16	22	SYN(CTRL V)	38	56	8
17	23	ETB(CTRL W)	39	57	9
18	24	CAN(CTRL X)	3A	58	:
19	25	EM(CTRL Y)	3B	59	;
1A	26	SUB(CTRL Z)	3C	60	<
1B	27	ESC(ESC)	3D	61	=
1C	28	FS(CTRL \)	3E	62	>

1D	29	GS(CTRL J)	3F	63	?
1E	30	RS(CTRL ^)	40	64	@
1F	31	US(CTRL-)	41	65	A
20	32	(space)	42	66	B
21	33	!	43	67	C
Hex	Dec	Description	Hex	Dec	Description
44	68	D	66	102	f
45	69	E	67	103	g
46	70	F	68	104	h
47	71	G	69	105	i
48	72	H	6A	106	j
49	73	I	6B	107	k
4A	74	J	6C	108	l
4B	75	K	6D	109	m
4C	76	L	6E	110	n
4D	77	M	6F	111	o
4E	78	N	70	112	p
4F	79	O	71	113	q
50	80	P	72	114	r
51	81	Q	73	115	s
52	82	R	74	116	t
53	83	S	75	117	u
54	84	T	76	118	v
55	85	U	77	119	w
56	86	V	78	120	x
57	87	W	79	121	y
58	88	X	7A	122	z
59	89	Y	7B	123	{
5A	90	Z	7C	124	
5B	91	[7D	125	}
5C	92	\	7E	126	~

5D	93]	7F	127	DEL
5E	94	^			
5F	95	-			
60	96	`			
61	97	a			
62	98	b			
63	99	c			
64	100	d			
65	101	e			