REALINN

RL6200W
Barcode Scanner
Manual Guide

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.

Please keep this instruction for reference in the future.

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Product Specification

Model-Number	RL6200W
Connection	2.4GHz Wireless + Wired
Memory	16MB = 100,000 barcodes
Battery capacity	2000mAh
Voltage	DC 5V
Standby current	30mA
Charging power	5V-400mA
Printing Contract	>25%
Light source	624nm LED
LED life	12000 hours
Button life	5000,000 times
Camera	640*480 CMOS
Illumination	6500K LEDs
Indication	Buzzer & LED
Resolution	4 mil
CPU	ARM 32-bit Cortex
Printing Contract	>25%
Decoding speed	500 times/sec
Scanning angle	Angle of rotation360°, inclination± 65°,declination ± 60°
Anti-interference	0-100000Lux Max
Drop test	2.0m
Applicable 1D barcode	UPC-A，UPC-E，EAN-8，EAN-13，Code 128， Code 39，Code 93，Code 11，Interleaved 2 of 5，Standard 2 of 5，Industrial 2 of 5,Coda bar MSI ，etc.
Applicable 2D barcode	QR Code, Data Matrix，PDF417，Aztec code，Maxi code，etc

Packing List

•Bar code scanner*1
•USB Cable*1
•Instruction Manual*1
•USB Wireless Receiver*1

Battery & Charging

The scanner is powered by 2000mAh rechargeable battery.
Please ensure that the scanner has enough power before use.

Battery level indication:
1). Plug in the USB receiver，the blue indicator light of the scanner is on all the time, it indicates that the battery is sufficient.

2). The lower battery warning: 6 times continuous beeps and the light on the top of scanner blinks continuously. You need to charge the scanner.

Insert one end of USB cable into the bottom of scanner, and insert another end to computer USB interface or 5V DC USB interface power

Charging indication:
1. Normal charging: The red light is steady on.
2. Fully charged: The blue light is on, red light goes out.

NOTE:
1. Please use computer USB interface or special 5V DC power adapter for charging, the abnormal power will cause permanent damage to scanner and battery.

2. To know how much the battery is left， please refer to page 17.

Quick Guide

The scanner has two connection mode: wireless mode and wired mode.

Mode 1: Wireless mode

1). Turning on the scanner, the scanner has triple beeps. Pull the trigger again, the green aiming light and white LED light will show up. (The scanner has been paired with the receiver, and set up already.)

2). Insert the USB receiver into the USB port of computer. The scanner top light will steady on blue and have "di" beep, it means the scanner paired successful. (Unplug the USB receiver from the PC's port, the scanner top light will blink green twice and then goes out.

3). Open notepad on computer and move cursor to the blank where scanning output should be placed. Scanning results can be displayed on notepad then.

If the bar code does not displayed, please set up the scanner again according to the following steps.

Step 1. Scan the code below to start pairing the USB receiver with scanner.The green light keep blinking.

Match

Step 2. Unplug the USB receiver and plug it again, then the scanner will have "di--di" beep , the light on the top of scanner will turn to blue and lighting stably, it means the scanner paired successful.

Step 3. Scan the code " instant upload mode "to set the scanner instantly upload barcode.

Instant upload mode

Step 4. Open notepad on computer and move cursor to the blank where scanning output should be placed. Scanning results can be displayed on notepad then.
(If there is triple quick "di-di-di" beep, that means paired unsuccessful, please operate the step1 and step 2 again.)

Mode 2. Wired mode

Step 1. Connect the scanner to your computer via USB cable. When the usb cable is plugged, the scanner will automatically switch to the wired mode by default.

Step 2. Open notepad on computer, move cursor to the blank, scan a barcode to see if it can be uploaded.

FAQs:

Q1. If I scan a product bar code, will it include the name of the product in the file automatically?

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

it's up to the database software you are using to interpret what that string of characters means. Once you acquire the bar codes, 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 like excel to assign the bar codes to specific products.

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

Q2. Why does scanner not read the bar code exactly. When I use the scanner to read a bar code of an item, I get a different result from the barcode itself.

Example 1: We use Code 39. it puts an * at the beginning and a * at the end. How do we program the scanner to read whole bar code? The bar code the computer received is 123456789. The bar code we need is *123456789*.

Solution: To show the start and stop digit of code39, please scan the code "Code39 start&stop digit -On" on page 29.

Example 2: The original bar code is "abc12345", the scanning result is "+A+B+C+D12348", the scanner put "+" between character.

Solution: Please scan the code "Code39 Full ASCII-On" on page 28.

Example 3: There are two separate bar codes together, it scanned the first 12digits in the barcode but not the last five.

Solution: please scan the code "UPCA- additional 2 digits-On" on page 21.

If that is not your case, please send us a clear picture of the bar code and the result you get, our customer service will help you to solve the problem.

Q3. Some bar codes can not be read, why?

Answer:

A. Incomplete and unclear bar codes might not be read.

B. It is possible that the setting is off by default for some bar code types which are not commonly used. You need activate a specific bar code type (on page 20) to get it working. Please feel free to contact our Customer Service Team for further assistance if you don't know the exact type of bar code that you are referring to.

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

Answer: To remove the auto-enter, please scan the code " Disable end character" on page 16.

Q5. Is there a way to make the scanner work with a white print on a black background?

Answer: To set the scanner to read white bar code on black ground, please scan the code "White in black background - On" on page 20, 30, 31,32.

Optional Function settings

You can change the settings of the scanner by scanning the setup bar codes included in this manual.

1. Upload Mode Setting

1.1. Instant Upload Mode

Read barcodes and upload the information straightly to the file you have opened already.

** To set the scanner to upload barcode instantly, scan the following code:

Instant upload mode

Scanning indication: The blue indicator light flashes once and the buzzer rang "DI" when the barcode is uploaded successfully.

1.2. Storage Mode

Read bar codes and store the bar codes in scanner' s memory. Then upload the data to computer in batches when you need them. Storage saves up to 100,000 bar codes.

** To convert scanner from "instant upload mode" to "storage mode", scan the following bar code "Storage mode ".

Storage mode

** To upload data stored in scanner, put the cursor in the blank, and then scan the setting code " Upload Data ", it will upload all the stored bar code at a time.

Upload data

** To show total number of stored bar code, put the cursor in the blank, and then scan the "Show total storage" bar code. It will out put " Total Counts: xx " .

Show total storage

** Scan the barcode " Clear data " to clear all the stored barcode. (for storage mode only)

Clear data

Scanning indication:

(1) The indicator light flashes once and the buzzer rang a fast "De-di" when the barcode is saved successfully in the built-in memory of the scanner

(2) The red indicator light flashes once and the buzzer rang a slow "DI---en" when the barcode can not be saved in the built-in memory of the scanner. It means the space of memory is not enough and cannot store any more barcodes. Please upload the saved

barcode by scanning the code "Upload Data" and then clear the saved barcode by scanning code "Clear Data".
(3) When all of the barcodes are been uploaded completely , the buzzer will ring a short " de " sound.

Note:
In storage mode, the bar code will be stored and will not come up on your computer instantly. The bar code comes up on your computer only when you scan the settings code "upload data".

2. Scanning Mode Setting

Supporting three kinds of scanning modes.

2.1. Manual Trigger mode (default) :

Press the trigger, the scanner will emit light and read the barcode. Release the trigger, the scanner will stop reading barcode and the light will go off.

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

Manual trigger mode (default)

2.2. Continuous Scanning Mode

There' s no need to press the trigger in this mode. The green light of the scanner will be on at a certain frequency.

The green scanning light will go off once the scanner scans barcode successfully and the scanner will enter into next scanning automatically after a intermittent time . And the green scanning light of the scanner will be on again once the waiting time passes

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

.

Continuous Scanning Mode

2.3. Auto-Sensing Mode

There' s no need to click the trigger under the Auto-sensing Mode. Just move the barcodes in front of the scanner, a green light band will show up to read the barcode. The green light band will go off once the scanner scans barcode successfully or preset timeout expires.

** Scan the following codes to set the scanner to Auto-induction Mode .

.

Auto-sensing Mode

Note: In Auto-sensing Mode. It will be better to set the scanner out to be longer stand-by time interval. Please refer to the instruction on page 18.

3. Beep Setting

Beep-Off

Low volume

Medium volume

High volume -Default

4.Anti-duplication Setting

In continuous scanning mode or auto-induction mode, the scanner might read the same barcode repeatedly.

Here you can set the time interval to avoid this issue.

** Scan one of the following code to set the time interval.

After reading a bar code, at the preset time interval, the scanner can not read the same bar code.

The scanner can read the same bar code only when preset time interval passes.

1s

3s

5s

7s

None

Delay forever

5. Aiming & LED Light Setting

5.1 Aiming Mode

The green beam that projected by the scanner can help user to find out the best reading distance.

Normal mode: green beam appears when the user press the trigger
Always on : green beam always appears when the scanner is electrified

** Scan one of the following code to select the Aiming mode

Normal mode(default)

Always on

5.2 White LED light Mode

The white beam offers auxiliary lighting for reading.
When the white beam projects on the target object, it can improve the decoding performance and the adaptability of weak ambient light.

Normal mode: white beam appears when the user press the trigger
Always on : white beam always appears when the scanner is electrified

** Scan one of the following code to select the led light mode

Normal mode(default)

Always on

6. Case Sensitivity Setting

The scanner can change all the letter cases of barcode into uppercase or lowercase. It takes "Not Altering the Letter Case of barcodes" as default, letter case of barcodes can be altered through scanning correspondent bar code below.

Note: Please deactivated caps lock on keyboard first.

** Scan one of the following code to select the letter case

All upper case

All lower case

No transformation（default）

7.Restore factory setting

To set the scanner back to factory setting, please scan this code

Restore default code

8. Identify Barcode Type

This is to identify what type of the barcode is, follow the steps below to confirm:

Scan code "Add Code ID " below, then scan your goal barcode, there will be a character BEFORE the barcode you scanned, and this character states your Barcode Type. After that, if you don't need this ID any more, scan the code "Turn off ID (default)" to hide it.

Add Code ID

Scan
Goal Barcode

Turn off ID (default)

CODE ID	Barcode Type
A	UPC-A, UPC-E, EAN-8, EAN-13
B	Code 39, Code 32
C	Codabar
D	Code 128, ISBT 128
E	Code 93
F	Interleaved 2 of 5/ITF, ITF14
G	Industrial 2 of 5, Standard 2 of 5
H	CODE11
J	MSI, MSI/Plessey
K	UCC/EAN-128/GS1-128
L	Bookland EAN/ISBN，ISSN

R	GS1 DataBar-14, GS1 DataBar Limited, GS1 DataBar Expanded, RSS
V	Matrix 25
r	PDF417
u	Data Matrix(DM)
q	QR
a	Aztec Code
x	Maxi Code
c	HanXin

9. Frequently-used End Character Setting

By default，the scanner is sending a 'carriage return' after scanning a code (the same as pressing the 'enter' key) .

To add TAB Key, please scan the code “ TAB ”

Disable end character

Carriage Return

TAB

10. Interface Setting

10.1 USB-HID mode (default)

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.

If you want to set the scanner as a keyboard to enter the barcode , please read code " USB-HID"

USB-HID

10.2 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.

Please let us know if you need to set it to USB virtual COM mode, we will send you the driver.

11. Battery Remaining

To show up how much the Battery is left, put the cursor in the blank, and then scan the following barcode. It will output "Battery: xx%" .

Battery Reserve

12. Stand-by Setting

By default, it is set to be 1 minutes. The scanner will enter into stand-by mode if there is no operation on it over 1 minutes. In stand-by mode, the CPU is still working. Short press on the trigger can wake it up.

**Scan one of the following barcode to set the time interval, when it's idle exceeding the time interval you set,the scanner will enter into stand-by mode.

30 seconds

2 minutes

5 minutes-Default

30 minutes

Never Stand-By

Standby Immediately

13. Keyboard Language Setting

The scanner support 7 international keyboards in wireless mode.

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

English

German

French

Spanish

Italian

Japanese

Universal

To change the keyboard language in wired mode, please contact us.

14. Enable / Disable Barcode Type

One-dimensional code

Read all 1D code-On

Read all 1D code-Off*

White in black background-On

White in black background-Off*

Two-dimensional code

Read all 2D code-On

Read all 2D code-Off*

UPC-A

UPCA-On*

UPCA-Off

UPCA Check digit-On*

UPCA Check digit-Off

UPCA -system digit - On*(default)

UPCA -system digit - Off

UPCA- additional 2 digit-On

UPCA- additional 2 digit-Off*

UPCA- additional 5 digit-On

UPCA- additional 5 digit-Off*

UPCA additional digit required-On

UPCA additional digit required-Off*

Note: after scanning the " UPCA additional digit required- ON ", the UPCA code without additional digit can not be read.

UPCA to EAN13-On

UPCA to EAN13-Off*

UPC-E

UPCE-On*

UPCE-Off

UPCE Check digit-On*

UPCE Check digit-Off

UPCE - system digit - On* (default)

UPCE - system digit - Off

UPCE- additional 2 digit-On

UPCE- additional 2 digit-Off*

UPCE- additional 5 digit-On

UPCE- additional 5 digit-Off*

UPCE additional digit required-On

UPCE additional digit required-Off*

Note: after scanning the " UPCE additional digit required - ON ",the UPCE code without additional digit can not be read.

UPCE to UPCA-On

UPCE to UPCA-Off*

EAN8

EAN8-On*

EAN8-Off

EAN8 check digit -On*

EAN8 check digit -Off*

EAN8 - additional 2 digit-On

EAN8- additional 2 digit-Off*

EAN8 -additional 5 digit-On

EAN8 - additional 5 digit-Off*

EAN8 additional 5 digit required-On

EAN8 additional 5 digit required-Off*

Note: after scanning the " EAN8 additional digit required - ON ", the EAN8 code without additional digit can not be read.

EAN13

EAN13-On*

EAN13-Off

EAN13 check digit -On*

EAN13 check digit -Off

EAN13 - additional 2 digit-On

EAN13- additional 2 digit-Off*

EAN13- additional 5 digit-On

EAN13 - additional 5 digit-Off*

EAN13 additional digit required - On

EAN13 additional digit required - Off*

Note: after scanning the " EAN13 additional digit required - ON ",the EAN13 code without additional digit can not be read.

Code 128

Code128-On*

Code128-Off

GS1-128

GS1-128-On*

GS1-128-Off

Interleaved 2 of 5

Interleaved 2 of 5-On, Code1

Interleaved 2 of 5-On, Code2

Note: To enable the scanner to read the interleaved 2 of 5 code, please scan the 2 setting codes above in order.

Interleaved 2 of 5-Off*

Matrix 2 of 5

Matrix 2 of 5-On，code 1

Matrix 2 of 5-On，code 2

Note: To enable the scanner to read the Matrix 2 of 5, please scan the 2 setting codes above in order.

Matrix 2 of 5-Off*

Industrial 2 of 5

Industrial 2 of 5-On, code 1

Industrial 2 of 5-On, code 2

Note: To enable the scanner to read the Industrial 2 of 5code, please scan the 2 setting codes above in order.

Industrial 2 of 5-Off*

Standard 2 of 5

Standard 2 of 5-On, code1

Standard 2 of 5-On Code2

Note: To enable the scanner to read the Standard 2 of 5 code, please scan the 2 setting codes above in order.

Standard 2 of 5-Off*

Code 39

Code39-On*

Code39-Off

Code39 Full ASCII-On

Code39 Full ASCII-Off*

Code39 start & stop digit -On

Code39 start & stop digit -Off*

Code39 any length string-On

Code 93

Code93-On

Code93-Off*

Code 11

Code11-On

Code11-Off*

Codabar

Codabar - On

Codabar-Off*

Codabar Start & End Digit- On*

Codabar Start & End Digit- Off

MSI

MSI - On，code1

MSI - On，code2

Note: To enable the scanner to read the MSI code， please scan the 2 codes above in order.

MSI-Off*

GS1-Databar

GS1-Databar-On

GS1-Databar-Off*

Code 32

QR code

QR code-On*

Code32-Off*

Code32 prefix A-on
White in black background-On

Code32 prefix A-Off*
White in black background-Off*

Data Matrix

Data Matrix-On*

Data Matrix-Off

White in black background-On

White in black background-Off*

PDF 417

PDF 417-On*

PDF 417-Off

White in black background-On

White in black background-Off*

Aztec code

Aztec code-On

Aztec code-Off*

Maxi Code

Maxi Code-On

Maxi Code-Off*

15. Insert and delete Character

The barcode scanners permit special characters to be added/delete at the beginning (prefix) or end (suffix) of the scanned barcode.

15.1 Insert Characters As Prefix

First step: Scan the below code to add characters from the beginning of the barcode.

Add Prefix

Second step: Scan the character code. (Character tablet is on page 38)
E.g. To add prefix A, b, scan the character code one by one.

A b

After that, if you scan your goal barcode, the Ab will be add at the beginning of the scanned barcode.

Note : To clear previously added prefix characters, scan the code below.

Clear all prefix

15.2 Insert Characters As Suffix

First step: Scan the below code to add character from the end of barcode.

Add Suffix

Second step: Scan the character code. (Character tablet is on page 38)

E.g. To add prefix C, d, scan the character code one by one.

C d

After that, if you scan your goal barcode, the Cd will be add at the end of the scanned barcode.

Note : To clear previously added suffix characters, scan the code below.

Clear all Suffix

15.3 Hide Characters from Start Position

First step: Scan the below code to hide characters from the leading character.

Delete characters from Start Position

Second step: Scan one of the following code to hide the corresponding characters. E.g. To delete the first 3 characters, please scan the number 3.

1 2 3 4

5 6 7 8

After that, if you scan your goal barcode 123456789, the 123 will be hided and the barcode only show 456789.

Note : To reinstate the hidden leading characters, scan the code below:

Reinstate leading character

15.4 Hide Characters from End Position

First step: Scan the below code to hide characters from the leading character.

Delete characters from End Position

Second step: Scan one of the following code to hide the corresponding characters. E.g. To delete the first 3 characters, please scan the number 3.

1 2 3 4

5 6 7 8

After that, if you scan your goal barcode 123456789, the 789 will be hided and the barcode only show 123456.

Note : To reinstate the hidden leading characters, scan the code below:

Reinstate ending character

ASCLL Barcode Table

SOH	LF	F6
^B	VT	F7
^C	FF	F8
EOT	CR	F9
ENQ	F1	F10
ACK	F2	F11
BEL	F3	F12
Back Space	F4	SUB
Tab	F5	Esc

Right Arrow	%	.
Left Arrow	&	/
Up Arrow	'	0
Down Arrow	(	1
Spacebar	)	2
!	*	3
"	+	4
#	,	5
$	-	6

7	@	I
8	A	J
9	B	K
:	C	L
;	D	M
<	E	N
=	F	O
>	G	P
?	H	Q

R	[	d
S	\	e
T	]	f
U	^	g
V	_	h
W	`	i
X	a	j
Y	b	k
Z	c	l

m	s	y
n	t	z
o	u	{
p	v	|
q	w	}
r	x	~
DEL		

FCC Caution.

a、§ 15.19 Labeling requirements.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

b、§ 15.21 Changes or modification warning.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

c、§ 15.105 Information to the user.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by

turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

-Reorient or relocate the receiving antenna.

-Increase the separation between the equipment and receiver.

-Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

-Consult the dealer or an experienced radio/TV technician for help.

* RF warning for Portable device:

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.