

LCR8B800

RGB Strip Controller Kit



Features

- Mini style controller with 3 channel constant voltage output
- Ultra sensitive colour adjustment touch wheel
- Smooth dimming and switching without any flickering
- 10 dynamic mode, include jump or gradual change style
- Independent dimming function of each R, G, B channel to achieve several colours
- Auto-transmitting function: controller automatically transmits the signal to another controller within 30m control distance that is unobstructed
- Option to synchronise to multiple controllers

Technical Parameters

LED Receiver's Input and Output	
Input voltage	12-24VDC
Input current	12.5A
Output voltage	3 x (12-24)VDC
Output current	3CH,4A/CH
Output power	144-288W(12-24V)
Output type	Constant voltage

LED Remote's Input and Output	
Output signal	RF(2.4GHz)
Working voltage	3VDC(CR2032)
Working current	< 5mA
Standby current	< 10µA
Standby time	1 year
Remote distance	30m (unobstructed)

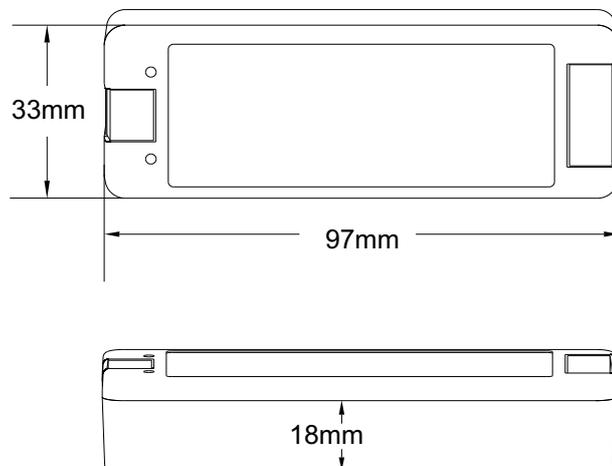
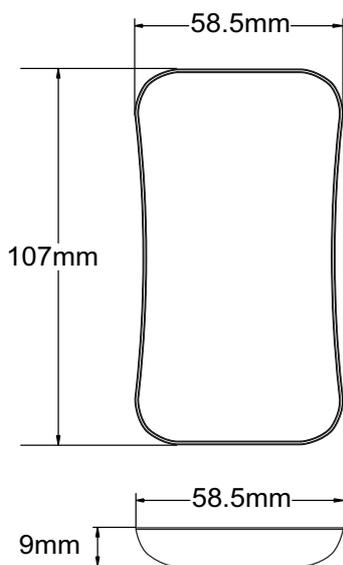
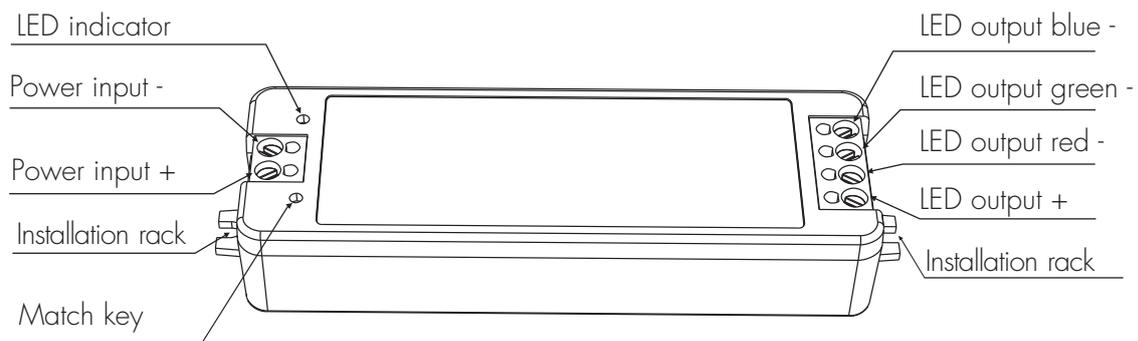
Dimming data	
Dimming level	4096 levels
Dimming range	0 - 100%
Dimming curve	Logarithmic
PWM Frequency	750Hz

Safety and EMC	
EMC standard (EMC)	EN301 489, EN 62479
Safety standard(LVD)	EN60950
Radio Equipment(RED)	EN300 328
Certification	CE, EMC, LVD, RED

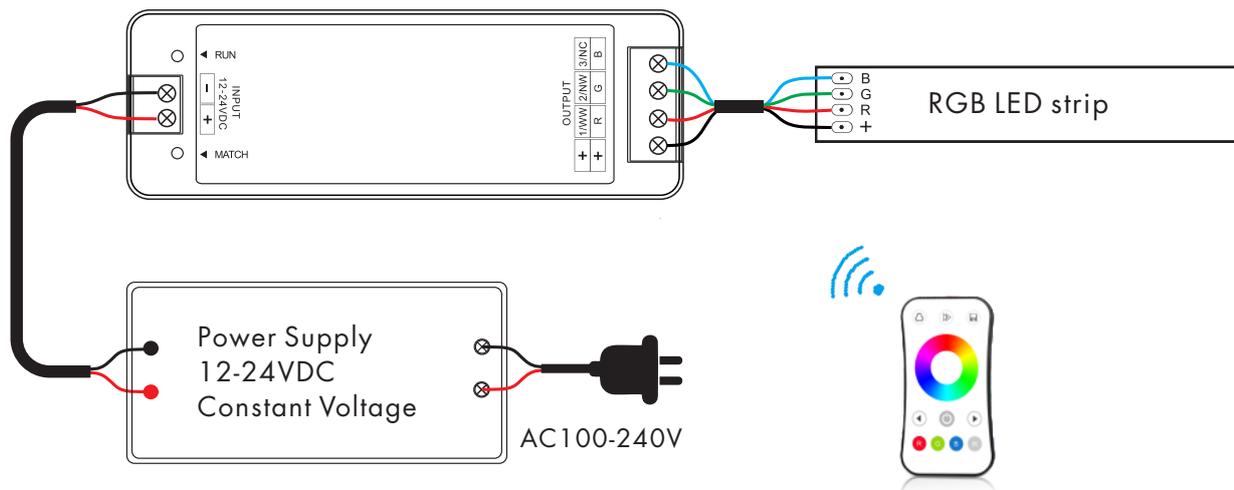
Warranty and Protection	
Warranty	5 years
Protection	Reverse Polarity

Environment	
Operation temperature	Ta: -30°C ~ +55°C
Case temperature (Max.)	Tc: +85°C
IP rating	IP20

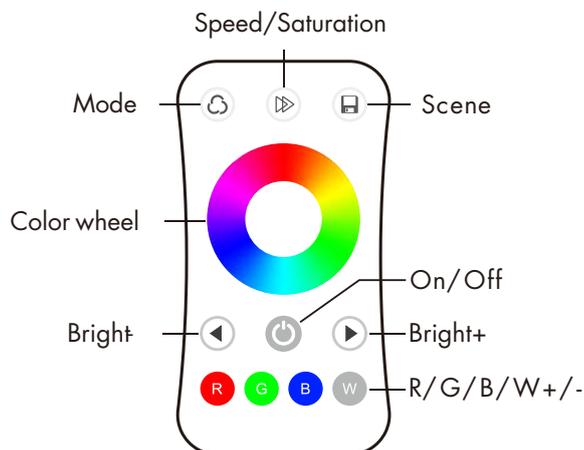
Mechanical Structures and Installations



Wiring Diagram



Remote Function



On/Off: Turn on/off light.

Colour wheel: Touch to change static RGB colour.

Mode: Short press runs the next dynamic mode, long press 2s runs the mode cycle.

Speed/Saturation: For dynamic mode, adjust speed, short press 10 levels, long press 2s to get the default speed. For static colour, adjust saturation, namely change current static RGB colour to mixed white slowly, short press 11 levels, long press 1-5s for continuous 256 levels adjustment.

Bright+/-: Adjust brightness, short press 10 levels, long press 1-5s for continuous 256 levels adjustment.

R/G/B: Short press to get red, green or blue directly, long press 1-5s adjusts R/G/B brightness continuously to achieve a variety of colours.

W+/-: Short press turn on/off white(RGB mix), long press 1-5s adjust saturation continuously, namely change current static RGB colour to mixed white slowly.

Scene: Short press recall the scene, long press 2s save the current colour into the scene.

* When light is on, touch the colour wheel, the indicator will display red.

* To extend battery life, no touch or press key operation after a few seconds, the touch wheel will enter sleep state, you need to press any key to make the touch wheel quit sleep state.

Match Remote Control (two match ways)

End user can choose the suitable match/delete ways. Two options are offered for selection:

Use the controller's Match Key

Match:

Short press match key, immediately press on/off key (single zone remote) or zone key (multiple zone remote) of the remote.

Delete:

Press and hold match key for 5s to delete all matches. The light blinking 5 times means all matched remotes were deleted.

Use Power Restart

Match:

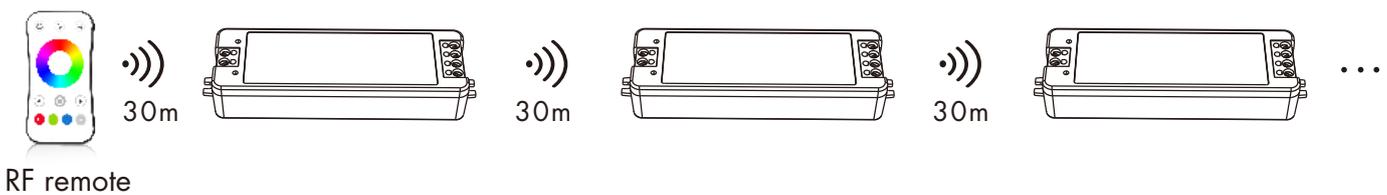
Switch off the power, then switch on the power again, immediately short press on/off key 3 times on the remote. The light blinking 3 times, means the match is successful.

Delete:

Switch off the power, then switch on the power again, immediately short press on/off key 5 times on the remote. The light blinking 5 times means all matched remotes were deleted.

Application Notes

All the receivers are matched with one RF remote.



Auto-transmitting: One receiver can transmit the signals from the remote to another receiver within 30m, as long as there is a receiver within 30m, the remote control distance can be limitless.

Auto-synchronisation: Multiple receivers within 30m distance can work synchronously when they are controlled by the same remote, under the same dynamic mode and with the same speed.

Receiver placement may offer up to a 30m communication distance. However, we recommend for indoor applications that receiver placements should be no further apart than 15m.

Dynamic Mode List

No.	Name	No.	Name
1	RGB jump	6	RGB fade in and out
2	RGB smooth	7	Red fade in and out
3	6 color jump	8	Green fade in and out
4	6 color smooth	9	Blue fade in and out
5	Yellow cyan purple smooth	10	White fade in and out

Malfunction Analysis and Troubleshooting

Malfunctions	Causes	Troubleshooting
No light	<ol style="list-style-type: none">1. No power.2. Wrong connection or insecure.	<ol style="list-style-type: none">1. Check the power.2. Check the connection
Wrong colour	<ol style="list-style-type: none">1. Wrong connection of R/G/B wires.	<ol style="list-style-type: none">1. Reconnect R/G/B wires.
Uneven intensity between front and rear, with voltage drop	<ol style="list-style-type: none">1. Output cable is too long.2. Wire diameter is too small.3. Overload beyond power supply capability4. Overload beyond controller capability	<ol style="list-style-type: none">1. Reduce cable or loop supply2. Change wider wire.3. Replace higher power supply4. Add power repeater
No response from the remote	<ol style="list-style-type: none">1. The battery has no power2. Beyond controllable distance.3. The controller did not match the remote	<ol style="list-style-type: none">1. Replace battery.2. Reduce remote distance.3. Re-match the remote.