

RGB ColorPlus LinkUp LED Controller

Part No. linkup-rgbw



The RGB ColorPlus LinkUp LED Controller is an exciting and user friendly way to control ColorPlus lighting systems. Select any static color from the color wheel or utilize any of the pre-programmed modes for a unique effect. Each remote can control an unlimited number of receivers, allowing you to easily create grand effects.

This set contains a wifi-compatible receiver which works with ColorPlus LED lighting systems to create extraordinary effects. The battery powered remote controller allows all settings to be customized in real time and through walls, within 30m (100 feet) of the receiver.

The receiver is rated at 6 amps per individual channel, but 15A maximum total, which is 180 watts per receiver at 12 volts or 360 watts per receiver at 24 volts. Our ColorPlus strip uses 50 watts per 5 meter reel at 12 volts. Therefore, you can control 3.5 reels of this strip per receiver without the use of amplifiers.

The LinkUp family is intended for use with either the included remote or the Android/iPhone app (requires the linkup-wifi). Each of these options provides the same broad range of functionality. The LinkUp products are not, however, compatible with your home wifi system or any other software applications.

Features

- Touch sensitive wheel can be used to specify 50 hues of color.
- Take full advantage of the versatile RGB ColorPlus lights by mixing RGB and white.
- 14 pre-programmed modes, with adjustable speed and brightness.
- Each remote control device can direct an unlimited number of receivers simultaneously.
- Each receiver or group of receivers can be controlled by up to four remotes.
- RF hand-held remote controller – adjust lights through walls from 30m (100 feet) away in a benign electromagnetic field.
- Power off memory function.
- Capability of up to 6 amps per channel at 12 or 24 VDC.

Applications

- Easily adjustable and energy efficient lighting with RGB Color Plus.
- Create the perfect ambiance for any home or business.
- Eliminate wires by pairing an unlimited number of receivers with a single wireless remote.
- Hotels, restaurants, office buildings, homes and casinos, wine cellars, bars, home entertainment centers.

Video Links

- [RGB ColorPlus LED Strip Light](#)

Specifications

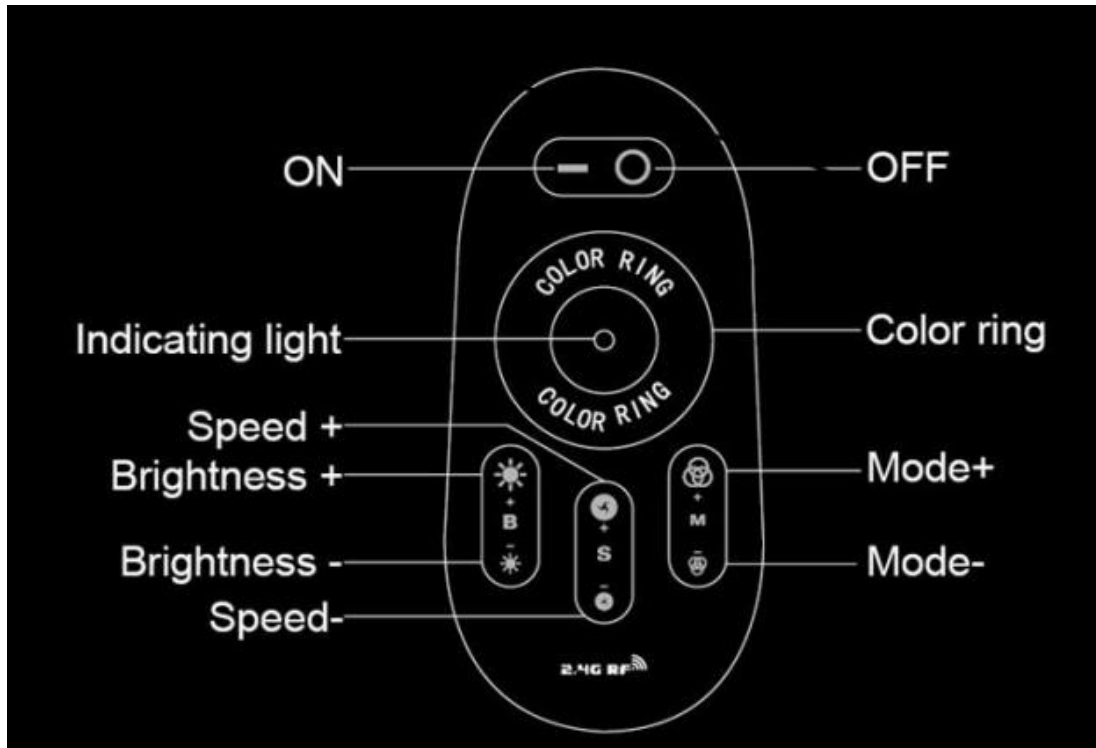
Remote Controller

Dimensions:	4.33" x 2.04" x 0.79" 110 mm x 52 mm x 20 mm
Power:	2 AAA batteries
Working Frequency:	2.4 GHz
RF Remote Distance:	100 feet (30 m)

Receiver

Dimensions:	3.35" x 1.77" x 0.91" 85 mm x 45 mm x 23 mm
Output Frequency:	130 Hertz
Input Voltage:	12-24 VDC
Maximum Load:	15A total maximum, 6A maximum per channel
Maximum Power:	180W/360W (12VDC/24VDC)
Number of Channels:	4

Remote Controller Functions:

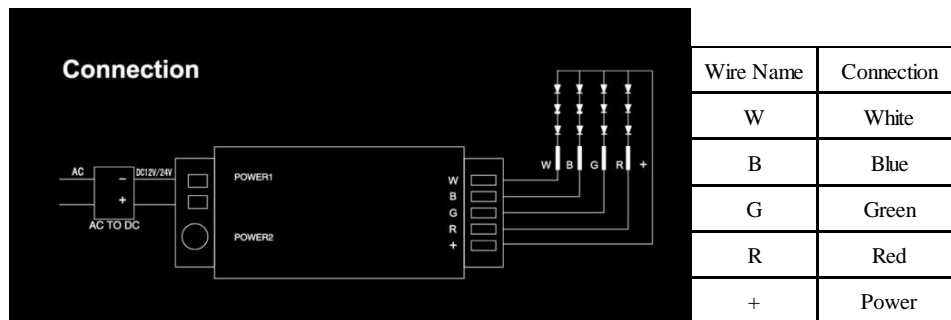


Operation

Powering Up

Remove the back cover of the remote and insert two AAA batteries. Connect the LED load to the controller using either the terminal blocks (as shown below, Power 1) or the barrel connector (Power 2). Do not apply voltage to both Power 1 and Power 2 at the same time. Apply 12 or 24 VDC depending on the LED load being powered.

Do not press the touch wheel while loading the batteries. This will affect the sensitivity of the touch wheel. Loss of sensitivity in the touch wheel is also an indicator of low battery charge.



Pairing Receivers to Remote

Each receiver must be uniquely paired to the remote. Turn the power to the receiver off, wait 10 seconds, and return power. Tap the S+ (speed) button on the remote once as soon as the lights come on. The LED will blink to confirm the match. Repeat this, pairing an unlimited number of receivers within working distance to your remote controller. Each receiver may be paired with up to four remotes. To delete the pairing, turn off power to the receiver. Restore power, and when the lights come back on hold down the S+ button for five seconds. Lights will blink to confirm.

Setting and Adjusting Lights

To select a color, simply touch a point on the color wheel. From there, the B+/- (brightness) buttons can be used to further adjust the light.

By pressing the M+/- (mode) buttons you may scroll through the pre-programmed modes listed below. When you reach mode 20 you will have to use the M- button to return to other modes on the list. Brightness can be increased or decreased in modes as with a static color.

For non-static modes, the speed of the function can be adjusted using the S+/- buttons. The speed is associated with each mode individually; when you come back to the mode it will remember the speed it was left at the last time. Press the color wheel at any time to return to mode 1, in which lights are a static color of your choice.

Please note: Dynamic modes (4-14) can become out of sync when multiple receivers are controlled by the same remote controller, due to the inherent characteristics of each receiver.

Pre-Programmed Modes

Mode Number	Description		
	RGB Mode	White Mode	Brightness Control
1	Adjustable using color wheel	Off	RGB
2	Off	On	White
3	White fade in and fade out	On, constatly changing brightness	White
4	All colors gradual change	Off	RGB
5	3 color gradual change - RGB with fade between	Off	RGB
6	7 color step change - RGBYMCW	7th color in step series, also on	RGBW
7	3 color step change - RGB	Off	RGB
8	Red/green step change	Off	Red/Green
9	Red/blue step change	Off	Red/Blue
10	Green/blue step change	Off	Green/Blue
11	White blinks on and off	On for half the time, otherwise off	White
12	White strobe	On for short pulse, otherwise off	White
13	Red blinks on and off	Off	Red
14	Red strobe	Off	Red
15	Green blinks on and off	Off	Green
16	Green strobe	Off	Green
17	Blue blinks on and off	Off	Blue
18	Blue strobe	Off	Blue
19	Yellow blinks on and off	Off	Red/Green
20	Yellow strobe	Off	Red/Green
21	Combination mode - cycles through all modes	As stated in previous modes	Brightness/speed same as previous modes.

Instructions

Please take the following precautions:

1. This equipment, like all electrical equipment, should be installed by a qualified person.
2. Do not expose these LEDs, dimmers or power supplies to intense electro-magnetic fields, including lightning.
3. The controllers and power supplies are not waterproof. Keep them dry.
4. Always observe proper polarity.

When installing LED lighting, it is a good idea to follow this “dry-run” procedure:

1. Be sure you have everything you need before you start.
2. Lay out your lights and power supply on the floor or table.
3. There is some resistance in the LED lighting. If you see any color fading or dimming at the end of a long run, you may have too many LEDs for your power supply and you might need a bigger supply or shorter runs. Use a bus structure as described in [rgb_manual.pdf](#). Call if you need assistance with larger projects.
4. Connect everything and test it to be sure it works and you have it connected properly. It is unlikely, but possible, that some part of your system is defective or was damaged during shipment. If that is the case, it will be very helpful to you to know that before you do all the work involved in installing custom LED lighting systems. You will also know if you damage anything during installation, which is really helpful in trouble-shooting because manufacturing defects and installation damage typically have very different solutions.

Once you have tested the system successfully, you are ready to install it. We recommend you install LEDs, electronic controls and dimmers in such a way that you have access to them in case they fail. All electrical components can fail.