

5 Channel Sync Receiver And Remote Manual

Part numbers: 5-in-1-Remote/5CH-Sync-Receiver



The 5-in-1 Wireless Remote can control up to 8 zones of LED lighting when paired with the 5 Channel Syncing Receiver. The 5 Channel Syncing Receiver is designed for use with our 5-in-1 RGB LED Strip Light. The 5-in-1 Wireless Remote features 9-preset modes and controls each zone independently from one another. Set any color of RGB with the color wheel, then blend the additional two white channels for the perfect color mix. The 5-in-1 Wireless Remote has a range of 30 meters in an ideal environment.

Features

- Wirelessly controls up to 8 separate zones
- 9 preset modes
- Works with 5-in-1 LED Strip Light
- 30-meter range

Applications

- Great for testing functions of 5-in-1 LED Strip Light
- For use in 5-in-1 Strip Light applications.

5-in-1 Receiver Wiring

1. Confirm that the power supply voltage matches the LED Strip Light voltage and that the power supply is unplugged.
2. Connect the power supply to the 5CH-Sync-Receiver using either the screw terminals or the DC barrel input. **Do not use the DC barrel input if using more than 5A of strip light.** Power supply positive and ground should be connected to "V+" and "V-" terminals respectively when using the screw terminals.
3. Connect the LEDs and power supply to the 5CH-Sync-Receiver using the screw terminals. The positive wire should be connected to the "V+" terminal. Connect LED negatives to output channels 1-5 as appropriate for the installation. Follow the label and use the wiring diagrams below to put the correct wire into each screw terminal. Do not connect more than 6A per channel or over 12A total.









Connect red to R, green to G, blue to B, cool white to CW and warm white or amber to WW. The positive wire connects to the V+ terminal.




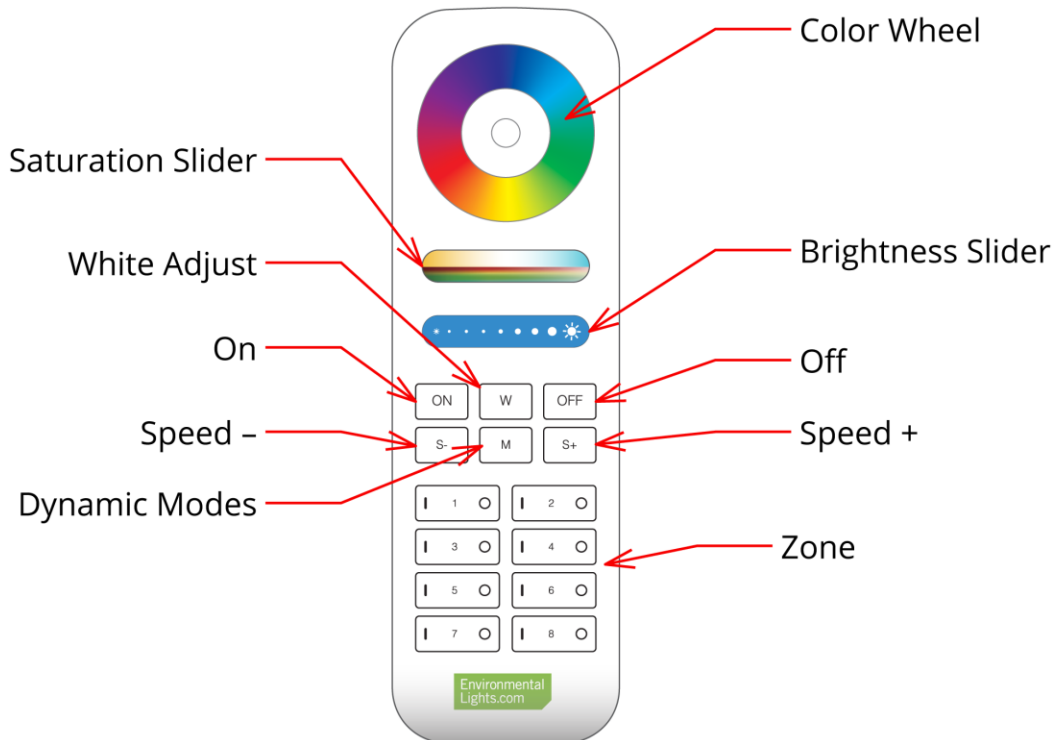
Operation

Linking



1. Disconnect the 5CH-Sync-Receiver from power. Wait 5 seconds and then reconnect power.
2. On the 5-in-1-Remote, locate the zone 1 power buttons.  The  button turns the zone on and the  button turns the zone off.
3. Press the  button three times within three seconds of reapplying power. The lights will blink three times to indicate a successful link.
4. The  and  will work as on and off buttons for the selected zone.
5. Repeat steps 1-3 for each receiver or wall washer. You can set up 8 different zones that will work in sync. Unlimited receivers or wall washers can be linked to each zone if they are within 30 meters of the remote.



Unlinking



1. Disconnect the 5-in-1-Receiver or LumenWash LED Wall Washer from power. Wait 5 seconds and then reconnect the power.
2. Press the  button five times on the corresponding zone within three seconds of reapplying power. The lights will blink ten times to indicate a successful unlink



Setting a constant color

The 5-in-1 Remote allows you to tune RGB and CCT separately to hone in on the exact color you want. For white only mode, simply press the  and use the  to select the proper balance of each white channel.

For 5-in-1 mode, first adjust the white balance using the  key. After you have tuned in the proper white using the  slider, press anywhere on the color wheel to begin RGB control. The ratio of each white channel will stay the same as you change the RGB colors.

Use the  slider to adjust the saturation and use the  slider to adjust the brightness.

The remote will auto-adjust your control capabilities based on the receiver's setting. Color control options are more limited when the receiver is set to the other modes.


Syncing




Each 5CH-Sync-Receiver acts as a transmitter as well as a receiver. This gives the 5CH-Sync-Receiver the ability to sync their current RGB color settings when multiple receivers are in the same zone. If, for example, you have two receivers, the first being within the 30 meter range of the remote and the second being outside this range, the second receiver can sync with the first to set the correct RGB color settings.*


The syncing functionality also works in the case of power loss. If some receivers in a zone temporarily lose power, they will sync their RGB setting with the remaining receivers.*


*The power-off syncing functionality does not work with the white channels or the dynamic modes. To resync receivers in a dynamic mode, set the desired mode as described below in 'Controlling Dynamic Modes'. To resync the white channels, set the desired white levels as described above in 'Setting a constant color'.

Controlling Dynamic Modes

Access the dynamic modes using the  button. The controls adjust based on what mode the receiver is set in. See table 1 for the available modes. Note that these modes do not utilize the syncing functionality of the receiver.

Brightness can be controlled using the  slider. Speed can be controlled using the  and  buttons.

Saturation can be adjusted using the  slider for RGBW and 5-in-1 RGB modes. For modes 6-8, the white stays on during the blinking pattern. See table 1 for more information.

As in the static modes, the white balance in 5-in-1 RGB Mode can be set using the  key and then returning to the dynamic modes.

Dynamic Modes

Mode	RGB/RGBW/5-in-1 RGB Modes	Saturation Slider Function
1	Random color step change	Adds constant white input
2	All colors gradual change	Adds constant white input
3	WGBM gradual change	Adds constant white input

4	RGB gradual change	Adds constant white input
5	Faster all colors gradual change	Adds constant white input
6	RWB gradual change	Adds constant white input
7	BWM gradual change	Adds constant white input
8	GBRW gradual change and fade in and out	Adds constant white input
9	All colors gradual change and fade in and out	Adds constant white input

Table 1: RGB/RGBW/5-in-1 RGB modes

Safety Precautions

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 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.