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Touch Panel RGB LED Controller
Part No. touch-panel-rgb

The Touch Panel RGB LED Controller is a sleek way to control RGB LED lighting in any household or commercial building. Available in both a black and white finish, it is designed to be easily mounted to any wall. In addition to the touch sensitive color wheel, this controller also has 10 preset colors and sequences built into the mode function.

RGB lighting gives you the ability to create the perfect ambiance for any occasion, especially when used as variable accent lighting. Furthermore, the high pulse width modulation (PWM) frequency of this controller eliminates flicker and creates a smooth output of LED light. Simply connect RGB LED lights and power to the Touch Panel Controller and you are ready to go!

The controller is rated at 4 amps per channel, or 12 amps total, which equates to 144 watts at 12VDC or 244 watts at 24VDC. Our regular density RGB strip uses 30 watts per 5 meter reel. Therefore, you can control up to 23 meters of regular density RGB strip with a single controller.

Features

- Sleek wall mount unit available in both black and white.
- Touch sensitive color wheel has 64 touch points, allowing you ultimate control.
- Mode function offers 10 preset scenes – static colors and dynamic sequences.
- High PWM frequency for smooth light output without flicker.
- Power off memory function.
- Simple and easy to use. Common anode takes 12 or 24 VDC.

Applications

- Hotels, restaurants, office buildings, homes and casinos, wine cellars, bars, home entertainment centers.
- Easily adjustable color changing light touch control panel
- Energy efficient.
- Create the perfect ambiance for any home or business.
- Modify your lighting throughout the day to suit your mood.

Specifications

Dimensions:	3.45" x 3.38" x 1.42"
	88 mm x 86 mm x 36 mm
Output Frequency:	3225 Hertz
Input Voltage:	12-24 VDC
Maximum Load:	4A per channel, 12A total
Maximum Power:	144W/288W (12VDC/24VDC)

Wiring

This unit is extremely easy to wire. Simply apply 12 or 24 VDC (based on the requirements of the LEDs you are powering) to the terminal blocks labeled INPUT V+ and V-. Next apply the leads of the RGB strip to the terminal blocks labeled OUTPUT V+, R (red), G (green), and B (blue). A maximum load of up to 4A of LED strip or modules can be connected to each OUTPUT port.

Operation

Turn the controller on or off using this power button.

The mode button allows you to access preset color functions. Once a mode is activated, pressing this button again will access the next mode in series. The pre-set modes are listed below. Once the last mode is reached, pressing the M button again will cause you to cycle back to the beginning of the list.

To turn the beeping function on or off, press the M button for several seconds, until you hear a long beep.

This button allows you to increase the speed of modes 8-10, and increase the brightness at all other times. There are 24 levels of speed and brightness available.

This button allows you to decrease the speed of modes 8-10, and decrease the brightness at all other times. There are 24 levels of speed and brightness available.

The touch wheel allows you to easily select the perfect color, with 64 distinct touch points.

Modes

Mode Number	Function	Brightness Adjustable?	Speed Adjustable?
1	Static Red	Yes	N/A
2	Static Green	Yes	N/A
3	Static Blue	Yes	N/A
4	Static Yellow	Yes	N/A
5	Static Purple	Yes	N/A
6	Static Cyan	Yes	N/A
7	Static White	Yes	N/A
8	7 Color Step	No	Yes
9	3 Color Fade	No	Yes
10	7 Color Fade	No	Yes

Mounting

Remove the back cover of the LED touch panel unit by inserting a screwdriver into the gap (highlighted in blue). Separate the two sides of the panel, then pull the black tab on the end of the connector (highlighted in yellow) to release the flat ribbon cable.

Mount the panel using the two mounting holes (highlighted in red). Re-attach the flat ribbon cable to the connector, and snap the unit back together.

The Touch Panel RGB LED Controller is compatible with the Square Junction Box with 2 Screws.

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.