

Touch Panel LED Dimmer
Part No. touch-panel-dim



The Touch Panel LED Dimmer is a sleek way to control monochrome 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 dimming wheel, this dimmer also has 11 preset brightness levels built into the mode function.

Dimmable LED lighting allows you to create the perfect ambiance for any occasion. The high pulse width modulation (PWM) frequency of this controller eliminates flicker and creates a smooth output of LED light. Simply connect monochrome LED strip light and power to the Touch Panel Controller and you are ready to go!

This dimmer is rated for a maximum load of 8 amps per channel, which equates to a maximum of 96 watts at 12VDC or 192 watts at 24VDC. Our regular density warm white strip uses 24 watts per 5 meter reel. Therefore, at 12VDC you can control 4 reels of regular density LED strip.

Features

- Sleek wall mount unit available in both black and white.
- Touch sensitive wheel can be used to specify 64 levels of brightness.
- Mode function offers eleven preset levels of light.
- 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 touch dimming control panel and energy efficient.
- Create the perfect ambiance for any home or business.

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:	8A
Maximum Power:	96W/192W (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 monochrome strip to the terminal blocks labeled OUTPUT V+ and V-. A maximum load of up to 8A of monochrome LED strip or modules can be connected to the OUTPUT ports.




Operation

 Turn the controller on or off using this power button.

 The mode button allows you to access preset levels of brightness. Once a mode is activated, pressing this button again will access the next mode in series. The pre-set modes, listed in the pre-programmed order and as a function of brightness, are 100%, 90%, 80%, 70%, 60%, 50%, 40%, 30%, 20%, 10%, and 0%. Once the last mode is reached, pressing the M button again will cycle you back to the beginning of the preset mode list.

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

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

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 ribbon 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 LED Dimmer 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.