

Tunable White StudioPro LED Dimmer

Part number: pro-dim-tw-8A



The Tunable White StudioPro LED Dimmer is a simple yet powerful high-capacity LED dimmer for use with our tunable white lighting products. This two-channel inline dimming controller features two rotary knobs on the top of the unit. The first knob controls the CCT of your tunable white lighting and the second knob controls the overall brightness. The color temperature mixing knob controls CCTs at constant brightness, so the light output remains constant as you set your desired CCT. Each knob is paired with a digital display that allows you to match lighting across multiple devices easily. Control up to eight amps per channel, or five amps per channel if you are using the convenient barrel plug. The dimmer also includes a switch that gives you the freedom to toggle between linear and logarithmic dimming curves. The design utilizes a 23 kHz PWM frequency to ensure no visible flicker on camera.

Features

- Tunable white dimmer
- Two channels
- 8 amps per channel (5 amps if using barrel plug)
- Rotary knobs with digital displays
- Linear and logarithmic dimming curve options
- 23 kHz PWM output

Applications

- Stage and set lighting
- Bars and Restaurants
- Residential

Specifications

Exterior Dimensions (in)	4.92 x 2.51 x 2.16
Exterior Dimensions (mm)	125 x 64 x 55
Input Voltage	12-24VDC
Output Channels	2
Output Current	8A Max per Channel
PWM Frequency	23kHz
Warranty	1 Year

Wiring

1. Confirm that the power supply voltage matches the LED voltage and that the power supply is unplugged before beginning.
2. Connect the LED lighting to the Tunable White StudioPro LED Dimmer using the removable terminal block. Wiring can be done with the terminal block unplugged. The V+, Warm White and Cool White wires should match up with the "V+", "WW" and "CW" labels behind the terminal block.
3. If using 5A per channel or less, power may be supplied using the 5.5x2.1mm barrel plug jack. Simply insert the barrel plug into the jack
4. For loads greater than 5A/Ch or when more convenient, the DC- and DC+ terminals on the removable terminal block should be used to supply power to the LED Dimmer.
5. Do not use both barrel jack and terminal block to supply power at the same time



Operation

CCT Adjustment

The knob on the left side of the dimmer, as-pictured, controls the CCT balance of the connected LED strip light in 32 steps. Rotating the knob fully counterclockwise results in setting value 1, which represents 100% brightness on the WW channel and 0% on the CW channel. Rotating the knob clockwise simultaneously decreases brightness on the WW channel and increases brightness on the CW channel. With the value 16 being a 50% / 50% split and value 32 being 0% WW and 100% CW.

Brightness

The knob on the right side of the dimmer, as-pictured, controls the overall brightness of the LED strip light. Counterclockwise rotation reduces brightness and clockwise increases it. Values go from 0 (off) to 100 (full brightness)

Dimming Curve

The small switch near the CCT knob controls the brightness dimming curve. Leaving the switch in "Linear" means that each step in brightness has the same increase or decrease in brightness. The "Log" setting activates a logarithmic dimming curve, which makes the step size smaller as the dimming value approaches 0. This setting is ideal for dialing in exact brightness settings at low level. This setting consequently increases the brightness step size as the dimming value approaches 100. So in Log mode, the step from dimming value 5 to 6 is smaller than the step from 95 to 96.