

LITEDIMMER™ PRO HYBRID

USER GUIDE

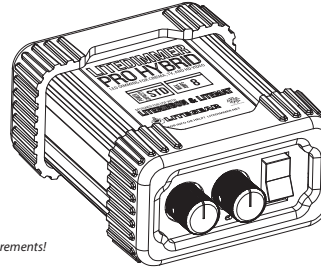


LiteDimmer Pro Hybrid Specifications

Standard Capacity

RATING: 8 amps max. total,
8 amps max. per channel
INPUT: 10~50VDC
OUTPUT: DynaRhythmic PWM
SIZE: 76.2 mm (3 in.) width
44.2 mm (1.74 in.) height
90.2 mm (3.55 in.) length
WEIGHT: 7.48 oz, 212 g

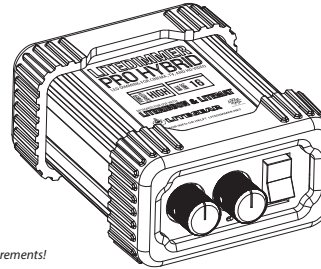
Input voltage must match load voltage requirements!



High Capacity

RATING: 16 amps max. total,
16 amps max. per channel
INPUT: 10~50VDC
OUTPUT: DynaRhythmic PWM
SIZE: 76.2 mm (3 in.) width
44.2 mm (1.74 in.) height
90.2 mm (3.55 in.) length
WEIGHT: 8.01 oz, 227 g

Input voltage must match load voltage requirements!



1 About LiteDimmer Pro Hybrid

LiteDimmer Pro Hybrid is the most advanced handheld LED dimmer on the market. It is the backbone of control for LiteGear's Hybrid LED products. Hybrid LiteRibbon®, LiteMat™, and LiteTile™ are designed with both Tungsten and Daylite LEDs that when used with LiteDimmer Pro Hybrid allow for precise adjustment of Kelvin temperature ranging from pure Tungsten to pure Daylite and everywhere in between. Its simple yet powerful approach to controlling color temperature and brightness sets a new standard of performance and quality while allowing the kind of flexibility demanded from lighting professionals. LiteDimmer Pro Hybrid is designed for use only with LiteGear™ LEDs that incorporate current limiting. LiteDimmer Pro Hybrid is not designed to limit current. Additional devices may be required.

Power Supply Options

LiteDimmer Pro Hybrid is capable of operating with DC voltage between 10VDC to 50VDC only. It will not increase or decrease input voltage. You must provide voltage that is compatible with the power requirements of LiteRibbon, LiteMat, or LiteTile. We recommend that you do not use LiteDimmer Pro Hybrid with non-LiteGear LED products.

2 Controls

The dimmer is equipped with hideaway rotary controls. Pushing the knobs into the case can protect against accidental adjustments as well as allow for safe storage.

Connections

LiteDimmer Pro Hybrid is available in two versions, standard and high capacity. The standard unit is assembled with a 2.1 mm x 5.5 mm Barrel input connector and is capable of 8 amps maximum. The high capacity unit includes a Phoenix-2 male (PH2-M) input connector and can control up to 16 amps. Both units feature a 3-conductor HyConn (PH3-M) output connector. See the rear panel for pin configurations.

3 How to Install

1. Connect the load to the HyConn output connector. Be sure you observe current capacities of all components such as cable, connectors, and power supplies.
2. Position the switch in the center (OFF) position.
3. Turn the "Level" knob to 0%.
4. Turn the "Kelvin" knob counterclockwise to TUN.
5. Provide DC power between 10V and 50V to the input connector.

You are now ready to operate LiteDimmer Pro Hybrid.



Note: Power supply voltage must match the rating of the LiteRibbon, or damage may occur.

4 Software Modes

LiteDimmer Pro Hybrid is programmed with several advanced software features. Moving the switch to the up (ON) position turns the dimmer on in normal HYBRID mode, which maintains the dimmer output even as the Kelvin temperature changes. Moving the switch down to the (ALT) position accesses one of the advanced software features at any given time. See the next page for the available ALT modes.

How to Change Modes

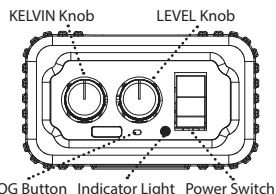
1. Place the switch in the center (OFF) position.
2. Locate the PROG button in the lower section of the front panel, and using the included actuator tool, depress the PROG button for approximately 2 seconds. The indicator light will begin flashing.
3. Turn the "Level" knob until the flashing indicator shows the color that corresponds to the desired mode.
4. Confirm selection by depressing the PROG button again for approximately 2 seconds.

After these steps have been completed, placing the switch in the down (ALT) position will operate the dimmer in the selected mode.

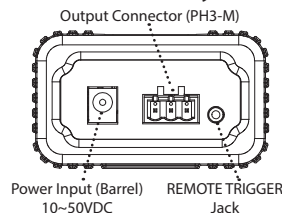
Safety and Maintenance

Before operation, inspect the cables and enclosure for any damage. Also, inspect the installation for short circuits, damage, water, or similar.

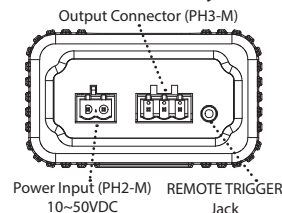
Front (8A and 16A)



Back (8A Only)



Back (16A Only)



5	OVERDRIVE*	This provides the absolute maximum output for a desired Kelvin temperature. <i>The indicator light will be white.</i>
	LOW	This mode allows you to select a maximum brightness, enabling fine adjustment for low level requirements. <i>The indicator light will be blue.</i>
	2-CHANNEL	This mode allows each of the two knobs - "Kelvin" and "Level" - to be operated independently as two separate channels, each controlling brightness. <i>(Adapter sold separately.) The indicator light will be yellow.</i>
	BUMP	This mode allows for instantaneous full output when the PROG button or the REMOTE TRIGGER button is pressed and no output when both buttons are released. <i>The indicator light will be purple.</i>
	PAPARAZZI	This mode allows for the PROG button or the REMOTE TRIGGER to trigger a paparazzi effect. <i>The indicator light will be alternating purple and white.</i>
	FIRE	This mode randomizes the dimmer output to mimic a fire effect. <i>The indicator light will be orange.</i>

*Indicates the default ALT mode.

8 is in the (ON) position, and bring the "Level" knob down to 0. Press and hold the PROG or REMOTE TRIGGER button. Continue to press and hold until the LED indicator light begins to flash. Using the "Level" knob, make an adjustment according to your needs: completely clockwise selects the slowest fade time (2 sec.) and fully counterclockwise offers instantaneous on-time. (The indicator light will flash with a frequency relative to the fade time.) Confirm your selection with a 1-second press of the PROG or REMOTE TRIGGER button, and you are all set! When your LiteDimmer is in PAPARAZZI mode, this newly selected fade time will also serve as the flash-effect fade time.

"Aaaaand Action!" Cueing:

After setting the fade time, this dimmer function allows for your LiteRibbon, LiteMat, or LiteTile to be brought up on cue. Set the brightness and color temperature to the desired levels. Press and hold the REMOTE TRIGGER button until the cue is given. When the cue is given, release the REMOTE TRIGGER button, and your LiteRibbon, LiteMat, or LiteTile will fade on or off (with the set fade time) to or from the desired brightness. This feature is only available in HYBRID, OVERDRIVE, LOW, 2-CHANNEL, and FIRE modes.

6 Variable Low Mode
To set the intensity of variable low mode, first set your LiteDimmer to LOW mode, and position the switch to (ALT). Next, rotate the "Level" knob to 0%, and press and hold the PROG or REMOTE TRIGGER button until the LED indicator flashes. Using the "Level" knob, adjust to your desired maximum brightness, and confirm your selection with a 1-second press of the PROG or REMOTE TRIGGER button.

Paparazzi Effect

To invoke the paparazzi effect, activate PAPARAZZI mode, and tap the REMOTE TRIGGER button - that's it! (Alternately, you may use the PROG button.) Your LiteRibbon, LiteMat, or LiteTile will turn on according to the position of the "Level" knob. You can adjust the decay time of the paparazzi effect by adjusting the fade time (see "Adjust Fade Time").

Fire Effect

To customize to the parameters of the effect, be sure to have a section of LiteRibbon, a LiteMat, or a LiteTile connected and operating. There are two settings that can be adjusted. The first is the threshold of the output, or brightness ratio, between the high point and the low point. Because the high point is always

9 Troubleshooting
If LiteDimmer Pro Hybrid seems to be experiencing irregular operation, a factory reset may be needed. Resetting the operating system can restore normal operation in many cases. To perform a factory reset, perform the following steps:

1. Place the switch in the center (OFF) position.
2. Power the dimmer.
3. Press and hold the PROG button for approximately 8 seconds until the indicator light flashes red 3 times. At this point, the software version will flash on repeat.
4. Cycle the power to finish the operation.

Your preferences and settings may now have to be reset.

If LiteDimmer Pro Hybrid is still experiencing irregular operation after a factory reset, contact LiteGear Technical Support for assistance.

Warnings

- Stage and Studio Use Only
- Risk of Electrical Shock
- Dry Location Only
- Disconnect Power Before Servicing
- Hazardous Voltage
- Not For Residential Use

Designed and Made in California, USA.

Any Questions? Comments? Concerns? Contact us at +1 (818) 358-8542

7 live and adjustable during the effect playback, only the "low" threshold must be set, which locks in the ratio between high and low. The second parameter is "speed." You may choose between barely noticeable to very rapid.

To make these two adjustments, activate FIRE mode, and connect the REMOTE TRIGGER (included). (Alternatively, you may use the PROG button.) With the switch in the (ALT) position, rotate the "Level" knob to 0%, and press and hold the REMOTE TRIGGER until your LiteRibbon, LiteMat, or LiteTile flashes once then remains on. Using the "Level" knob, set the low threshold. Now press and hold the REMOTE TRIGGER again until your LiteRibbon, LiteMat, or LiteTile flashes twice. Again, using the "Level" knob, set the speed. Press and hold the REMOTE TRIGGER button until the LiteRibbon, LiteMat, or LiteTile flashes three times to confirm your settings. You are now in playback mode and are free to adjust Kelvin temperature with the "Kelvin" knob and brightness with the "Level" knob. These new parameters are locked and will remain until updates are made, even after cycling power.

Adjust Fade Time

LiteDimmer Hybrid is programmed with the ability to set an adjustable fade time. To edit the fade time, ensure your dimmer



*For more information, scan the QR code above,
or visit our website: www.litegear.com*

*Questions? Comments? Concerns?
Contact us at +1 (818) 358-8542*



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