



*Congratulations on your purchase of LiteDimmer Hybrid.*

#### **About LiteDimmer Hybrid**

LiteDimmer 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 and LiteCards are designed with both cool and warm LED emitters that when used with LiteDimmer Hybrid allow precise adjustment of Kelvin temperature ranging from 3000° to 6000°K. It's 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 Hybrid is designed for use only with LiteGear LEDs that incorporate current limiting. LiteDimmer is not designed to limit current. Additional devices may be required.

#### **Power Supply Options**

LiteDimmer Hybrid is capable of operating with DC voltage between 10 to 32v only. It will not increase or decrease input voltage. You must provide voltage that is compatible with the power requirements of LiteRibbon and LiteCards.

#### **Connections**

LiteDimmer Hybrid is assembled with a 2.1 x 5.5 Barrel input connector and a 3 conductor HyConn Output connector. Barrel polarity is positive (+) in the center surrounded by negative (-). See the rear panel to see HyConn pin configuration.

#### **Safety and Maintenance**

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

#### **How to install**

To install LiteDimmer, connect the load to the HyConn output lead. Be sure your load is under 8 amps. Position the switch in the center (off) position. Turn the "Level" knob to 0%. Turn the "Color" knob counter-clockwise to W4. Provide DC power between 10v and 32v to the Barrel input connector (center positive). You are now ready to operate LiteDimmer Hybrid. Note: Power supply voltage must not exceed the rating of the LiteGear LED product or damage may occur.

#### **How to set levels**

To set levels, set the switch to the up (on) position and rotate the level knob to the desired level. Your VHO Hybrid LED product should now be operating in its "warm" color mode. The label shows output level in percentage.

#### **How to set Kelvin Temperature**

To adjust Kelvin, slowly rotate the "Color" knob clockwise until the desired kelvin is reached.

#### **Advanced features**

LiteDimmer is capable of short circuit protection. If the output is shorted for any reason (positive and negative become directly connected), LiteDimmer Hybrid will protect itself by shutting off power to the output and will flash the indicator light. This will continue until the short circuit is removed. After the problem is corrected, LiteDimmer Hybrid should resume operation. The dimmer is also equipped with hide-away rotary controls. Pushing the knobs into the case can protect against accidental adjustments as well as for safe storage.

#### **Software modes**

LiteDimmer Hybrid is programmed with a few advanced software features. Moving the switch to the up (on) position turns the dimmer on in normal Hybrid mode. Moving the switch down to the "Low" position turns the dimmer on in Low-mode. This mode is similar to normal Hybrid mode but decreases the maximum output by 75% (2 F-Stops) enabling fine-adjustment of brightness for low level requirements. It is possible to repurpose the switch-down position from low to other modes. Do this by placing the switch in the off position. Next, press and hold the recessed programming button located to the lower left of the Level knob. After holding this button for 3 seconds, the indicator will flash showing that the mode has been changed. Blue indicates low mode and is the factory setting. Yellow indicates a 2-channel mode that allows each of the 2 channels to be operated independently, without a master control. White indicates Over-Drive mode. This provides that absolute maximum output for a desired Kelvin temperature. The included cable adapter allows separate control of LiteGear VHO single LED products when using 2-channel mode. Repeating this process will toggle through all different modes. Check with us regarding free software upgrades.

#### **Troubleshooting**

If LiteDimmer stops operating, remove it from the circuit to confirm that the dimmer is the problem. Connect LiteRibbon directly to power. If it does not operate, the problem is not the dimmer. Check leads, and connectors. If the LiteRibbon does operate, LiteDimmer could be overheated due to over-current conditions or is damaged. If damaged, contact LiteGear Service department for service.

#### **Specifications**

SIZE: 70mm (2.75") wide x 36mm (1.4") tall x 95mm (3.75") long  
INPUT: 12/24V DC, (10-32v), Input voltage must match load voltage requirements!  
RATING: 8 Amps max. total, 8 amps max. per channel  
WATTAGE: 96 Watts max.  
WEIGHT: 6 Ounces, 170 Grams  
OUTPUT: DynaRhythmic PWM  
Does not provide "Current Limiting". For use with litegear products only.

#### **Warnings**

Stage and Studio Use Only  
Dry Location Only  
Hazardous Voltage  
Risk of Electrical Shock  
Disconnect Power Before Servicing  
Not User Serviceable Parts, Leads Only  
Not For Residential Use  
Made in California

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