



LiteDimmer HYBRID User's Guide

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™ is designed with both Tungsten and Daylite 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™. Do not use Hybrid dimmer with non-LiteGear LED products.

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 "Kelvin" knob counter-clockwise to 3000k. 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 it's "Tungsten" color mode. The label shows output level in percentage.

How to set Kelvin Temperature

To adjust Kelvin, slowly rotate the "Kelvin" 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 "ATL" position turns the dimmer on in OVERDRIVE mode. This provides the absolute maximum output for a desired Kelvin temperature. It is possible to repurpose the switch-down position from OVERDRIVE to other modes. To change modes, place switch in the OFF position. Locate the PROG switch in the lower section of the front panel. Using a small tool, depress the PROG button for 1 second. The indicator light will begin flashing. Turn the KELVIN knob until the flashing indicator shows the color that corresponds to the desired mode. Confirm selection by depressing the PROG button briefly. After these step have been completed, placing the switch in the ALT position will operate the dimmer in the selected mode. WHITE indicates OVERDRIVE mode and is the factory setting. BLUE indicates 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. YELLOW indicates a 2-CHANNEL mode that allows each of the 2 channels to be operated independently, without a master control. The included cable adapter allows separate control of LiteGear VHO single LED products when using 2-channel mode. 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. If LiteDimmer Hybrid seems to be experiencing irregular operation, a factory reset may be needed. Resetting the operating system can restore normal operation in most cases. To perform a factory-reset, place the switch in the OFF position. Next, power the dimmer then press and hold the PROG. button for about 12 seconds until the indicator turns ready-red in color. Cycle the power to finish the operation. Note that your preferences and settings may now have to be reset.

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 For Residential Use
Made in California

SW 4.0