



LiteDimmer HYBRID User 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 Daylight LED emitters that when used with LiteDimmer Hybrid allow precise adjustment of Kelvin temperature ranging from 3200 to 6000K. 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 Hybrid is designed for use only with LiteGear LEDs that incorporate current limiting. LiteDimmer Hybrid is not designed to limit current. Additional devices may be required.

Power Supply Options

LiteDimmer Hybrid is capable of operating with DC voltage between 10V to 30V DC 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 LiteDimmer Hybrid with non-LiteGear LED products.

Connections

LiteDimmer Hybrid is available in two versions, standard and high capacity. The standard unit is assembled with a 2.1mm x 5.5mm 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 15 amps. Both units feature a 3-conductor HyConn (PH3-M) output connector. See the rear panel for pin configurations.

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 Hybrid, connect the load to the HyConn output connector. Be sure you observe current capacities of all components such as cable, connectors, and power supplies. Position the switch in the center (OFF) position. Turn the "Level" knob to 0%. Turn the "Kelvin" knob counter-clockwise to 3200K. Provide DC power between 10V and 30V to the input connector. You are now ready to operate LiteDimmer Hybrid.

Note: Power supply voltage must match the rating of the LiteRibbon™ 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 "Tungsten" color mode. The label shows output level in percentage. To adjust Kelvin, slowly rotate the "Kelvin" knob clockwise until the desired Kelvin is reached.

Controls

The dimmer is also equipped with hideaway rotary controls. Pushing the knobs into the case can protect against accidental adjustments as well as allow 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 (ALT) 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 the switch in the center (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 steps have been completed, placing the switch in the down (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 2-CHANNEL mode, which allows each of the 2 channels to be operated independently without a master control. The included cable adapter allows for separate control of LiteGear VHO Single LED products when using 2-CHANNEL mode.

Troubleshooting

If LiteDimmer Hybrid stops operating, remove it from the circuit to confirm that the dimmer is the problem. Connect LiteRibbon™ directly to power with the Barrel/Hybrid adapter provided with your dimmer. If it does not operate, the problem is not the dimmer. Check leads and connectors. If the LiteRibbon™ does operate, LiteDimmer Hybrid could be overheated due to over-current conditions or is damaged. If damaged, contact the 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 many cases. To perform a factory reset, place the switch in the center (OFF) position. Next, power the dimmer, and then press and hold the PROG button for about 30 seconds until the indicator turns steady-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, (10-30V DC); Input voltage must match load voltage requirements!

RATING: 8 amps max. total, 8 amps max. per channel (STANDARD CAPACITY, 8A); 15 amps max. total, 15 amps max. per channel (HIGH CAPACITY, 15A)

WATTAGE: 96 watts max. (STANDARD CAPACITY, 8A); 180 watts max. (HIGH CAPACITY, 15A)

WEIGHT: 6.016 oz, 171 g (STANDARD CAPACITY, 8A); 6.496 oz, 184 g (HIGH CAPACITY, 15A)

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