

# LITEDIMMER PRO CHROMA USER GUIDE





**INDEX**

ABOUT .....page 1

FEATURES.....page 1

CONTROLS & CONNECTIONS ..... pages 2 & 3

POWER ..... page 4

HOW TO CONNECT .....page 4 & 5

PROFILES & MODES (INTRODUCTION) ..... page 6

PROFILES & MODES (HYBRID PROFILES) ..... page 7 - 12

PROFILES & MODES (RGBW PROFILES) ..... page 13 - 18

PROFILES & MODES (RGBA PROFILES) .....page 19 - 24

PROFILES & MODES ..... page 25

DMX OPERATION ..... page 26

TROUBLESHOOTING ..... page 27

SPECIFICATIONS ..... page 28



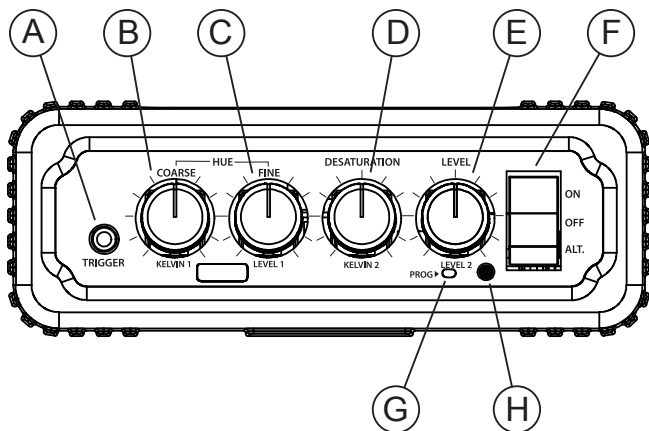
## **ABOUT**

LiteDimmer Pro Chroma is a flicker-free LED dimmer that may represent our best work so far. Developed in-house, the unit features a genuine LiteDimmer circuit known for smooth low-end dimming, flicker-free operation, and rock solid reliability. We set out to provide tactile and simple control of our ChromaCorrect, four-color LiteRibbon such as RGB-Tungsten and RGB-Daylite. Of course RGB-Amber, RGB, and Hybrid LiteRibbon modes are included as well. And, as a first for locally controlled LiteDimmers, this Chroma unit includes DMX signal output that streams formatted DMX that matches the mode of your LiteDimmer Pro Chroma. Several advanced operating modes include multi-channel Fire along with Paparazzi flash effects. The LiteDimmer Pro Chroma is a well-rounded and feature-packed LED dimmer for LiteRibbon, LiteMat, LiteTile, and LiteStix.

## **FEATURES**

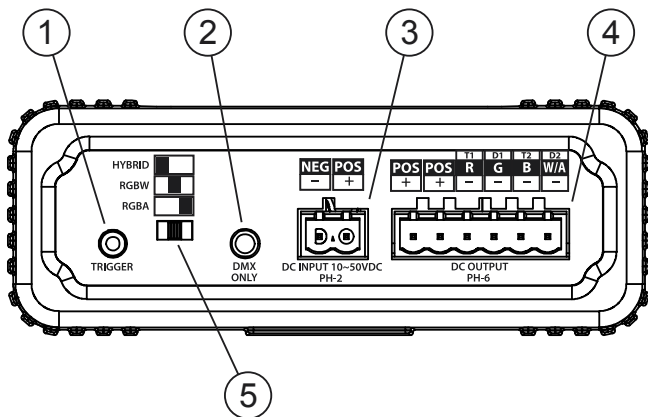
- Hybrid, RGBW, and RGBA Profiles with Advanced Modes
- Integrated LiteEFX Modes
- Manual Operation with DMX Output
- "Aaaaand Action!" Cueing with Local and Remote Triggers
- Flicker-Free
- Rubber Bumpers with Integrated Magnets for Mounting and Protection of Delicate Surfaces
- Cold Shoe Adapter Slot for Mounting
- High Capacity (16A Max.) and Ultra Capacity (32A Max.) Models

## CONTROLS & CONNECTIONS – FRONT PANEL



- A) Local Trigger Button (for cueing and changing modes)
- B) 'HUE COARSE' Hideaway Rotary Knob
- C) 'HUE FINE' Hideaway Rotary Knob
- D) 'DESATURATION' Hideaway Rotary Knob
- E) 'LEVEL' Hideaway Rotary Knob
- F) Three-Position Rocker Switch (ON, OFF, ALT.)
- G) Program (PROG) Button (for Factory Reset)
- H) Indicator Light (to indicate current profile and mode setting)

## CONTROLS & CONNECTIONS – REAR PANEL



- 1) Remote Trigger Jack: 2.5 mm TRS Jack
- 2) DMX Output: 3.5 mm TRS Jack
- 3) Power Input Connector: PC2 Connector (Ultra Capacity version)  
PH2 Connector (High Capacity version shown)
- 4) LED Output Connector: PH6 Connector
- 5) Three-Position Slide Switch (for Profile Selection)

## POWER

The LiteDimmer Pro Chroma dimmer requires DC voltage to operate. The input voltage range is from 10VDC to 50VDC, though most LiteGear LED lighting products require either 12VDC (nominal) or 24VDC (nominal).

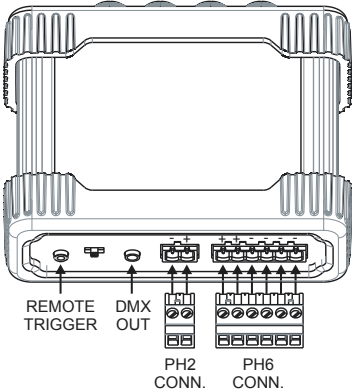
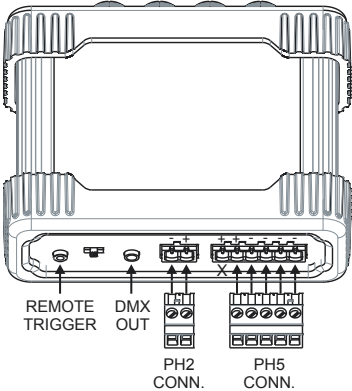
***The input voltage to the LiteDimmer Pro Chroma must match the voltage rating of the LiteRibbon, LiteMat, or LiteTile being used!***

## HOW TO CONNECT

- Set the three-position rocker switch to the center 'OFF' position.
- Connect the LED load to the PH6 output connector (be sure to observe wattage requirements for both the LED load and the LiteDimmer Pro Chroma). Please note that the PH6 output connector has two positive output pins. See image below for correct connections.
- Turn all 4 rotary knobs (HUE COURSE, HUE FINE, DESATURATION, LEVEL) fully counterclockwise.
- Provide DC power to the PC2 or PH2 input connector (the specific connector depends on the specific dimmer model being used).
- You are now ready to operate your LiteDimmer Pro Chroma.



# HOW TO CONNECT



*When installing the Chroma dimmer, be sure to make use of the various mounting options available, including slots for cold shoe mount adapters (they can be accessed by removing the rubber bumpers) and the embedded magnets at the base of the rubber bumpers.*

## PROFILES & MODES

The Chroma dimmer includes three profiles, each with its own advanced modes. Moving the three-position slide switch on the rear panel of the dimmer selects one of three different profiles - HYBRID, RGBW, or RGBA.

Once a profile is selected, several modes become available, that are specific to that particular profile. Setting the three-position rocker switch on the front panel to the 'ON' position turns the dimmer on in the normal Compensated mode for the respective profile. Setting the rocker switch down to the 'ALT' position, accesses one of several advanced modes. See the tables below for detailed descriptions of each profile's specific modes.

***The RGBW profile allows for better desaturation of color with a dedicated white channel while the RGBA profile adds a dedicated amber channel to hue, resulting in an increased range of resolution in the orange and yellow hue ranges.***

***Before changing profiles, the three-position rocker switch must be in the 'OFF' position!***

## PROFILES & MODES **HYBRID PROFILE – Compensated** (2-Circuit)

| Mode   | Description   |
|--|---|
| <b>Compensated</b><br><i>(2-Circuit)</i><br><br>Indicator<br>Light:<br><b>Yellow</b> | <p>This mode ensures that the selected brightness of the LEDs does not change even if the Kelvin temperature changes after setting the brightness. Two separate Hybrid fixtures or circuits can be controlled independently of each other. <b>The indicator light on the front panel will be yellow.</b></p> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"><li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li><li>2. Set the three-position rocker switch to the up 'ON' position.</li></ol> |

## PROFILES & MODES **HYBRID PROFILE – Overdrive\*** (2-Circuit)

| Mode  | Description   |
|---|---|
| <p><b>Overdrive*</b><br/><i>(2-Circuit)</i></p> <p>Indicator Light:<br/><b>Alternating Yellow/White</b></p> | <p>This mode provides the absolute maximum output for a desired Kelvin temperature. Two separate Hybrid fixtures or circuits can be controlled independently of each other. <b>The indicator light on the front panel will be alternating yellow and white.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the 'ALT' position. The indicator light should be alternating yellow/white. If the indicator light is flashing yellow/white the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the center 'OFF' position.</li> <li>2. Turn the 'LEVEL' knob counterclockwise until it stops.</li> <li>3. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li> <li>4. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating yellow/white flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down 'ALT' position.</li> <li>7. The dimmer is ready and set to the Hybrid Profile in Overdrive (2-Circuit) Mode.</li> </ol> |

*\*indicates the default ALT mode*

## PROFILES & MODES **HYBRID PROFILE – Compensated** (1-Circuit)

| Mode   | Description   |
|--|---|
| <p><b>Compensated</b><br/><i>(1-Circuit)</i></p> <p>Indicator<br/>Light:<br/><b>Yellow/<br/>Blue</b></p> | <p>This mode is similar to Compensated (2-Circuit) mode (above) but parallels LED outputs 1 and 3 (Tungsten) and outputs 2 and 4 (Daylite), using only two knobs, the 'DESATURATION' and 'LEVEL' knobs. <b>The indicator light on the front panel will be alternating yellow and blue.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the 'ALT' position. The indicator light should be alternating yellow/blue. If the indicator light is flashing yellow/blue the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the center 'OFF' position.</li> <li>2. Turn the 'LEVEL' knob counterclockwise until it stops.</li> <li>3. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li> <li>4. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating yellow/blue flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down 'ALT' position.</li> <li>7. The dimmer is ready and set to the Hybrid Profile in Overdrive (1-Circuit) Mode.</li> </ol> |

## PROFILES & MODES **HYBRID PROFILE – Overdrive (1-Circuit)**

| Mode  | Description   |
|---|---|
| <p><b>Overdrive</b><br/><i>(1-Circuit)</i></p> <p>Indicator Light:<br/><b>Alternating Yellow/Cyan</b></p> | <p>This mode is similar to Overdrive (2-Circuit) mode (above) but parallels LED outputs 1 and 3 (Tungsten) and outputs 2 and 4 (Daylite), using only two knobs, the 'DESATURATION' and 'LEVEL' knobs. <b>The indicator light on the front panel will be alternating yellow and cyan.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the 'ALT' position. The indicator light should be alternating yellow/cyan. If the indicator light is flashing yellow/cyan the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the center 'OFF' position.</li> <li>2. Turn the 'LEVEL' knob counterclockwise until it stops.</li> <li>3. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li> <li>4. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating yellow/cyan flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down 'ALT' position.</li> <li>7. The dimmer is ready and set to the Hybrid Profile in Overdrive (1-Circuit) Mode.</li> </ol> |

## PROFILES & MODES **HYBRID PROFILE – Paparazzi**

| Mode  | Description  |
|---|--|
| <p><b>Paparazzi</b></p> <p>Indicator Light:<br/><b>Alternating Yellow/Magenta</b></p> | <p>This mode allows for the LOCAL TRIGGER BUTTON or the REMOTE TRIGGER to initiate a paparazzi flash effect with adjustable decay (see “Adjusting the Fade Time or Decay” below). <b>The indicator light on the front panel will be alternating yellow and magenta.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the ‘ALT’ position. The indicator light should be alternating yellow/magenta. If the indicator light is flashing yellow/magenta the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the center ‘OFF’ position.</li> <li>2. Turn the ‘LEVEL’ knob counterclockwise until it stops.</li> <li>3. Press and hold the ‘LOCAL TRIGGER BUTTON’ until the indicator light begins flashing green rapidly. (Alternatively, you may use the ‘REMOTE TRIGGER’ instead of the ‘LOCAL TRIGGER BUTTON’)</li> <li>4. Turn the ‘LEVEL’ knob clockwise until the indicator light changes to alternating yellow/magenta flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down ‘ALT’ position.</li> <li>7. The dimmer is ready and set to the Hybrid Profile in Paparazzi Mode.</li> <li>8. Pressing the LOCAL TRIGGER BUTTON (Alternatively, you may use the ‘REMOTE TRIGGER’ instead of the ‘LOCAL TRIGGER BUTTON’) will flash the LED load on and according to the position of the ‘LEVEL’ knob.</li> </ol> <p><i>To adjust the fade time or decay while on the Hybrid Profile only:</i></p> <ol style="list-style-type: none"> <li>1. The decay time of the Paparazzi flash effect can be adjusted by turning the ‘HUE FINE’ knob. Setting the knob fully counterclockwise provides the fastest decay while turning the knob fully clockwise provides the slowest decay.</li> </ol> |

## PROFILES & MODES **HYBRID PROFILE – Fire**

| Mode  | Description  |
|---|--|
| <b>Fire</b><br><br>Indicator Light:<br><b>Alternating Yellow/Orange</b> | <p>This mode allows for the LOCAL TRIGGER BUTTON or the REMOTE TRIGGER to initiate a fire effect with adjustable flicker speed (see "Adjusting Fire Effects Parameters" below). <b>The indicator light on the front panel will be alternating yellow and orange.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the 'ALT' position. The indicator light should be alternating yellow/orange. If the indicator light is flashing yellow/orange the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the down 'ALT' position.</li> <li>2. Turn the 'LEVEL' knob counterclockwise until it stops.</li> <li>3. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li> <li>4. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating yellow/orange flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down 'ALT' position.</li> <li>7. The dimmer is ready and set to the Hybrid Profile in Fire Mode.</li> </ol> <p><i>There are two settings within the Fire Effect that can be adjusted:</i></p> <ol style="list-style-type: none"> <li>1. The first parameter is the threshold of the output, or brightness ratio, between the highest and the lowest brightness levels. Because the high brightness point is always live and adjustable during the effect playback, only the "low" threshold needs to be set, which locks in the ratio between high and low brightness.</li> <li>2. The second parameter is the speed of the fire flicker. You may choose between "barely noticeable" to "very rapid."</li> </ol> <p><i>Adjusting Fire Effect Parameters in the Hybrid Profile Only:</i></p> <ol style="list-style-type: none"> <li>1. Use the 'HUE-COARSE' knob to adjust the threshold of the output. Fully counterclockwise yields the most dramatic fire effect while fully clockwise yields the subtlest fire effect.</li> <li>2. Use the 'HUE-FINE' knob to adjust the speed of the fire flicker. Fully counterclockwise yields the slowest flicker while fully clockwise yields the fastest flicker.</li> </ol> |



## PROFILES & MODES **RGBW PROFILE – Compensated**

| Mode   | Description  |
|--|--|
| Compensated<br><br>Indicator<br>Light:<br><b>White</b> | <p>This mode ensures that the selected brightness of the LEDs does not change even if the Kelvin temperature changes after setting the brightness. Two separate Hybrid fixtures or circuits can be controlled independently of each other. <b>The indicator light on the front panel will be white.</b></p> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"><li>1. Set the three-position slide switch on the rear panel to the RGBW position.</li><li>2. Set the three-position rocker switch to the up 'ON' position.</li></ol> |

## PROFILES & MODES **RGBW PROFILE – Overdrive\***

| Mode   | Description   |
|--|---|
| <b>Overdrive*</b><br><br>Indicator Light:<br><b>Alternating Bright White/Dim White</b> | <p>This mode provides the absolute maximum output for a desired color. When desaturating in this mode, all channels will be used. <b>The indicator light on the front panel will be alternating bright white and dim white.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the 'ALT' position. The indicator light should be alternating bright white/dim white. If the indicator light is flashing bright white dim white the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the center 'OFF' position.</li> <li>2. Turn the 'LEVEL' knob counterclockwise until it stops.</li> <li>3. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li> <li>4. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating bright white/dim white flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down 'ALT' position.</li> <li>7. The dimmer is ready and set to the RGBW Profile in Overdrive Mode.</li> </ol> |

*\*indicates the default ALT mode*

## PROFILES & MODES **RGBW PROFILE – 4-Channel**

| Mode  | Description  |
|---|--|
| <b>4-Channel</b><br><br>Indicator Light:<br><b>Alternating White/Blue</b> | <p>This mode allows individual brightness control of 4 separate channels, allowing you to set the individual intensities of red, green, blue, and white separately from each other. You may also use this mode for single color LiteRibbon, LiteMats, or LiteStix.</p> <p><b>The indicator light on the front panel will be alternating white and blue.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the 'ALT' position. The indicator light should be alternating white/blue. If the indicator light is flashing white/blue the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position slide switch on the rear panel to the RGBW position.</li> <li>2. Ensure that 4-Channel Mode is selected. The indicator light should be alternating white/blue when the three-position rocker switch is set to the 'ALT' position. If the LED indicator is flashing white/blue skip to step 8. If not, follow steps 3 thru 8.</li> <li>3. Place the three-position rocker switch to the center 'OFF' position.</li> <li>4. Turn the 'LEVEL' knob clockwise until it stops.</li> <li>5. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li> <li>6. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating white/blue flashing.</li> <li>7. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>8. Set the three-position rocker switch to the down 'ALT' position.</li> <li>9. The dimmer is ready and set to the RGBW Profile in 4-Channel Mode.</li> </ol> |

## PROFILES & MODES **RGBW PROFILE – RGB**

| Mode  | Description   |
|---|---|
| <b>RGB</b><br><br>Indicator Light:<br><b>Alternating White/Cyan</b> | <p>This mode allows for a simple, 1 to 1 control of RGB LiteRibbon, allowing you to set the individual intensities of red, green, and blue with a submaster to control the overall intensity. The 'HUE-COARSE' knob sets the brightness of red; the 'HUE-FINE' knob sets the brightness of green; the 'DESATURATION' knob sets the brightness of blue; and the 'LEVEL' knob sets the overall brightness of the RGB mix. <b>The indicator light on the front panel will be alternating white and cyan.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Place the three-position rocker switch to the 'ALT' position. The indicator light should be alternating white/cyan. If the indicator light is flashing white/cyan the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the center 'OFF' position.</li> <li>2. Turn the 'LEVEL' knob counterclockwise until it stops.</li> <li>3. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li> <li>4. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating white/cyan flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down 'ALT' position.</li> <li>7. The dimmer is ready and set to the RGBW Profile in RGB Mode.</li> </ol> |

## PROFILES & MODES **RGBW PROFILE – FIRE**

| Mode   | Description   |
|--|---|
| <b>Fire</b><br><br>Indicator Light:<br><b>Alternating White/Orange</b> | <p>This mode allows for the LOCAL TRIGGER BUTTON or the REMOTE TRIGGER to initiate a fire effect with adjustable flicker speed (see "Adjusting Fire Effects Parameters" below). <b>The indicator light on the front panel will be alternating white and orange.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the 'ALT' position. The indicator light should be alternating white/orange. If the indicator light is flashing white/orange the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the down 'ALT' position.</li> <li>2. Turn the 'LEVEL' knob counterclockwise until it stops.</li> <li>3. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li> <li>4. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating white orange flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down 'ALT' position.</li> <li>7. The dimmer is ready and set to the RGBW Profile in Fire Mode.</li> </ol> <p><i>There are two settings within the Fire Effect that can be adjusted:</i></p> <ol style="list-style-type: none"> <li>1. The first parameter is the threshold of the output, or brightness ratio, between the highest and the lowest brightness levels. Because the high brightness point is always live and adjustable during the effect playback, only the "low" threshold needs to be set, which locks in the ratio between high and low brightness.</li> <li>2. The second parameter is the speed of the fire flicker. You may choose between "barely noticeable" to "very rapid."</li> </ol> <p><i>Adjusting Fire Effect Parameters in the RGBW Profile:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch in the up 'ON' position, regardless of the profile.</li> <li>2. Press and hold the LOCAL TRIGGER BUTTON.</li> <li>3. While pressing and holding the LOCAL TRIGGER BUTTON, use the 'HUE-COARSE' knob to adjust the threshold of the output. Fully counterclockwise yields the most dramatic fire effect while fully clockwise yields the subtlest fire effect.</li> <li>4. Confirm your selection with a 1-second press of the LOCAL TRIGGER BUTTON.</li> </ol> |

## PROFILES & MODES **RGBW PROFILE – PAPARAZZI**

| Mode   | Description   |
|--|---|
| <b>Paparazzi</b><br><br>Indicator Light:<br><b>Alternating White/Magenta</b> | <p>This mode allows for the LOCAL TRIGGER BUTTON or the REMOTE TRIGGER to initiate a paparazzi flash effect with adjustable decay (see “<b>Adjusting the Fade Time or Decay</b>” below). <b>The indicator light on the front panel will be alternating white and magenta.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the ‘ALT’ position. The indicator light should be alternating white/magenta. If the indicator light is flashing white/magenta the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the center ‘OFF’ position.</li> <li>2. Turn the ‘LEVEL’ knob counterclockwise until it stops.</li> <li>3. Press and hold the ‘LOCAL TRIGGER BUTTON’ until the indicator light begins flashing green rapidly. (Alternatively, you may use the ‘REMOTE TRIGGER’ instead of the ‘LOCAL TRIGGER BUTTON’)</li> <li>4. Turn the ‘LEVEL’ knob clockwise until the indicator light changes to alternating white/magenta flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down ‘ALT’ position.</li> <li>7. The dimmer is ready and set to the RGBW Profile in Paparazzi Mode.</li> </ol> <p><i>To adjust the fade time or decay:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch in the up ‘ON’ position, regardless of the profile.</li> <li>2. Turn the ‘LEVEL’ knob counterclockwise until it stops.</li> <li>3. Press and hold the ‘LOCAL TRIGGER BUTTON’ until the indicator light begins flashing green rapidly. (Alternatively, you may use the ‘REMOTE TRIGGER’ instead of the ‘LOCAL TRIGGER BUTTON’)</li> <li>4. Using the ‘LEVEL’ knob, set the fade time (All the way CCW= fastest fade time; All the way CW = slowest fade time). The indicator light will flash with a frequency relative to the desired fade time.</li> <li>5. Confirm your selection with a 1-second press of the LOCAL TRIGGER BUTTON.</li> </ol> |

## PROFILES & MODES **RGBA PROFILE – Compensated**

| Mode   | Description   |
|--|---|
| <b>Compensated</b><br><br>Indicator<br>Light:<br><b>Orange</b> | <p>This mode ensures that the selected brightness of the LEDs does not change even if the Kelvin temperature changes after setting the brightness. Two separate Hybrid fixtures or circuits can be controlled independently of each other. <b>The indicator light on the front panel will be orange.</b></p> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"><li>1. Set the three-position slide switch on the rear panel to the RGBA position.</li><li>2. Set the three-position rocker switch to the up 'ON' position.</li></ol> |

## PROFILES & MODES **RGBA PROFILE – Overdrive\***

| Mode   | Description   |
|--|---|
| <b>Overdrive*</b><br><br>Indicator Light:<br><b>Orange/White</b> | <p>This mode provides the absolute maximum output for a desired color. <b>The indicator light on the front panel will be alternating orange and white.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the 'ALT' position. The indicator light should be alternating orange/white. If the indicator light is flashing orange/white the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the center 'OFF' position.</li> <li>2. Turn the 'LEVEL' knob counterclockwise until it stops.</li> <li>3. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li> <li>4. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating bright orange/dim white flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down 'ALT' position.</li> <li>7. The dimmer is ready and set to the RGBA Profile in Overdrive Mode.</li> </ol> |

*\*indicates the default ALT mode*



## PROFILES & MODES **RGBA PROFILE – 4-Channel**

| Mode   | Description   |
|--|---|
| <b>4-Channel</b><br><br>Indicator Light:<br><b>Orange/Blue</b> | <p>This mode allows individual brightness control of 4 separate channels, allowing you to set the individual intensities of red, green, blue, and white separately from each other. You may also use this mode for single color LiteRibbon, LiteMats, or LiteStix.</p> <p><b>The indicator light on the front panel will be alternating orange and blue.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"><li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li><li>2. Set the three-position rocker switch to the 'ALT' position. The indicator light should be alternating orange/blue. If the indicator light is flashing orange/blue the dimmer is ready. If not, follow the steps below.</li></ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"><li>1. Position the three-position slide switch on the center 'OFF' position.</li><li>2. Turn the 'LEVEL' knob clockwise until it stops.</li><li>3. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li><li>4. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating orange/blue flashing.</li><li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li><li>6. Set the three-position rocker switch to the down 'ALT' position.</li><li>7. The dimmer is ready and set to the RGBA Profile in 4-Channel Mode.</li></ol> |

## PROFILES & MODES **RGBA PROFILE – RGB**

| Mode   | Description  |
|--|--|
| <b>RGB</b><br><br>Indicator<br>Light:<br><b>Alternating<br/>Orange/<br/>Cyan</b> | <p>This mode allows for a simple, 1 to 1 control of RGB LiteRibbon, allowing you to set the individual intensities of red, green, and blue with a submaster to control the overall intensity. The 'HUE-COARSE' knob sets the brightness of red; the 'HUE-FINE' knob sets the brightness of green; the 'DESATURATION' knob sets the brightness of blue; and the 'LEVEL' knob sets the overall brightness of the RGB mix. <b>The indicator light on the front panel will be alternating orange and cyan.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"><li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li><li>2. Set the three-position rocker switch to the 'ALT' position. The indicator light should be alternating orange/cyan. If the indicator light is flashing orange/cyan the dimmer is ready. If not, follow the steps below.</li></ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"><li>1. Place the three-position rocker switch to the center 'OFF' position.</li><li>2. Turn the 'LEVEL' knob counterclockwise until it stops.</li><li>3. Press and hold the 'LOCAL TRIGGER BUTTON' until the indicator light begins flashing green rapidly. (Alternatively, you may use the 'REMOTE TRIGGER' instead of the 'LOCAL TRIGGER BUTTON')</li><li>4. Turn the 'LEVEL' knob clockwise until the indicator light changes to alternating orange/cyan flashing.</li><li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li><li>6. Set the three-position rocker switch to the down 'ALT' position.</li><li>7. The dimmer is ready and set to the RGBA Profile in RGB Mode.</li></ol> |

## PROFILES & MODES **RGBA PROFILE – PAPARAZZI**

| Mode   | Description  |
|--|--|
| <b>Paparazzi</b><br><br>Indicator Light:<br><b>Orange/<br/>Magenta</b> | <p>This mode allows for the LOCAL TRIGGER BUTTON or the REMOTE TRIGGER to initiate a paparazzi flash effect with adjustable decay (see “<b>Adjusting the Fade Time or Decay</b>” below). <b>The indicator light on the front panel will be alternating orange and magenta.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the ‘ALT’ position. The indicator light should be alternating orange/magenta. If the indicator light is flashing orange/magenta the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the center ‘OFF’ position.</li> <li>2. Turn the ‘LEVEL’ knob counterclockwise until it stops.</li> <li>3. Press and hold the ‘LOCAL TRIGGER BUTTON’ until the indicator light begins flashing green rapidly. (Alternatively, you may use the ‘REMOTE TRIGGER’ instead of the ‘LOCAL TRIGGER BUTTON’)</li> <li>4. Turn the ‘LEVEL’ knob clockwise until the indicator light changes to alternating orange/magenta flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down ‘ALT’ position.</li> <li>7. The dimmer is ready and set to the RGBA Profile in Paparazzi Mode.</li> </ol> <p><i>To adjust the fade time or decay:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch in the up ‘ON’ position, regardless of the profile.</li> <li>2. Turn the ‘LEVEL’ knob counterclockwise until it stops.</li> <li>3. Press and hold the ‘LOCAL TRIGGER BUTTON’ until the indicator light begins flashing green rapidly. (Alternatively, you may use the ‘REMOTE TRIGGER’ instead of the ‘LOCAL TRIGGER BUTTON’)</li> <li>4. Using the ‘LEVEL’ knob, set the fade time (All the way CCW= fastest fade time; All the way CW = slowest fade time). The indicator light will flash with a frequency relative to the desired fade time.</li> <li>5. Confirm your selection with a 1-second press of the LOCAL TRIGGERBUTTON.</li> </ol> |

## PROFILES & MODES **RGBA PROFILE – FIRE**

| Mode   | Description  |
|--|--|
| <b>Fire</b><br><br>Indicator Light:<br><b>Alternating Bright Orange/Dim Orange</b> | <p>This mode allows for the LOCAL TRIGGER BUTTON or the REMOTE TRIGGER to initiate a fire effect with adjustable flicker speed (see “<b>Adjusting Fire Effects Parameters</b>” below). <b>The indicator light on the front panel will be alternating bright orange and dim orange.</b></p> <p><i>To check the mode:</i></p> <ol style="list-style-type: none"> <li>1. Set the three-position slide switch on the rear panel to the HYBRID position.</li> <li>2. Set the three-position rocker switch to the ‘ALT’ position. The indicator light should be alternating bright orange/dim orange. If the indicator light is flashing bright orange/dim orange the dimmer is ready. If not, follow the steps below.</li> </ol> <p><i>To access this mode:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch to the down ‘ALT’ position.</li> <li>2. Turn the ‘LEVEL’ knob counterclockwise until it stops.</li> <li>3. Press and hold the ‘LOCAL TRIGGER BUTTON’ until the indicator light begins flashing green rapidly. (Alternatively, you may use the ‘REMOTE TRIGGER’ instead of the ‘LOCAL TRIGGER BUTTON’)</li> <li>4. Turn the ‘LEVEL’ knob clockwise until the indicator light changes to alternating bright orange/dim orange flashing.</li> <li>5. Confirm selection by depressing the LOCAL TRIGGER BUTTON again until the LED indicator begins flashing green rapidly.</li> <li>6. Set the three-position rocker switch to the down ‘ALT’ position.</li> <li>7. The dimmer is ready and set to the RGBA Profile in Fire Mode.</li> </ol> <p><i>There are two settings within the Fire Effect that can be adjusted:</i></p> <ol style="list-style-type: none"> <li>1. The first parameter is the threshold of the output, or brightness ratio, between the highest and the lowest brightness levels. Because the high brightness point is always live and adjustable during the effect playback, only the “low” threshold needs to be set, which locks in the ratio between high and low brightness.</li> <li>2. The second parameter is the speed of the fire flicker. You may choose between “barely noticeable” to “very rapid.”</li> </ol> <p><i>Adjusting Fire Effect Parameters in the RGBA Profile:</i></p> <ol style="list-style-type: none"> <li>1. Place the three-position rocker switch in the up ‘ON’ position, regardless of the profile.</li> <li>2. Press and hold the LOCAL TRIGGER BUTTON.</li> <li>3. While pressing and holding the LOCAL TRIGGER BUTTON, use the ‘HUE-COARSE’ knob to adjust the threshold of the output. Fully counterclockwise yields the most dramatic fire effect while fully clockwise yields the subtlest fire effect.</li> <li>4. Confirm your selection with a 1-second press of the LOCAL TRIGGER BUTTON.</li> </ol> |

## PROFILES & MODES

After these steps have been completed, placing the switch in the down (ALT) position will operate the dimmer in the selected mode. The mode will remain until changed or until factory reset is done.

### **"AAAAND ACTION!" Cueing**

After setting the fade time, this cueing function allows for your LiteRibbon, LiteMat, LiteTile, or LiteStix to be brought up on or off on cue. To achieve this effect, follow the steps listed below:

1. Set the Kelvin temperature and intensity (Hybrid profile) or the hue, desaturation, and intensity (RGBW and RGBA profiles) to the desired levels.
2. Press and hold the LOCAL TRIGGER BUTTON. (Alternatively, you may use the REMOTE TRIGGER instead of the LOCAL TRIGGER BUTTON.)
3. When the cue is given, release the LOCAL TRIGGER, and your LEDs will fade on or off (with the set fade time) to or from the desired brightness.

***This feature is not available in any of the Paparazzi modes.***

### ***Advanced Note:***

***After adjusting the fire parameters in either the RGBW or RGBA profiles, the effective range of the knobs used for adjustment becomes more limited. For example, when you use the 'HUE-FINE' knob to adjust the threshold of the output by turning it clockwise to  $\frac{1}{4}$  of the total travel, the effective range of the knob is now  $\frac{1}{4}$  to full CW. To regain the full resolution of the knob, rotate the knob counterclockwise past the point used to set the parameter(s).***

## DMX OPERATION

The Chroma dimmer is constantly streaming DMX signal, mirroring the functionality and output of the Chroma dimmer. Simply plug in LiteGear's DMX adapter (TRS to RJ45) to the 3.5 mm DMX output port on the rear panel of the device and connect to the DMX input of any one of LiteGear's DMX controllers.

The Chroma dimmer broadcasts four channels of DMX across six different circuits, up to twenty-four DMX channels. For example, DMX channels 1, 5, 9, 13, 17, and 21 all do the same thing at all times. The same pattern applies to DMX channels 2, 3, and 4, up to DMX channel 24.

### How to set the DMX Address:

*(Note: Selected DMX Address must allow for 4 channels to operate. For example, if DMX Address maximum is 512, the last valid DMX Address that can be used is 508.)*

- a. Perform Factory Reset first. Continue to next steps to address the unit before reconnecting power to complete the power cycling.
- b. Set all of the knobs to 50%.
- c. Set rocker switch to CENTER (Off) position.
- d. Connect to DMX controller via TRS to RJ45 cable.
- e. On the DMX controller, turn on desired start Address to 100%, make sure all other Addresses are set to 0%.
- f. Press and hold the TRIGGER button.
- g. While holding the TRIGGER button, connector power. Indicator light should flash green rapidly. (Flashing green indicator light means the unit is receiving DMX.)
- Flashing blue indicator light means the unit is not receiving any DMX.

## **TROUBLESHOOTING**

If the Chroma dimmer 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, follow the steps listed below:

1. Align the white line on the 'LEVEL' knob with the top line on the panel. Set the rest of the knobs all the way CCW.
2. Press and hold the LOCAL TRIGGER BUTTON.
3. While pressing and holding the LOCAL TRIGGER BUTTON, connect a DC power source to the dimmer. The indicator light will begin flashing red very rapidly.
4. Release the LOCAL TRIGGER BUTTON. The indicator light will continue flashing red rapidly but slightly slower than before.
5. Wait 5 seconds.
6. Disconnect the DC power source.
7. Reconnect the DC power source.

If the Chroma dimmer is still experiencing irregular operation after performing a factory reset, contact LiteGear Technical Support for assistance.

## **SPECIFICATIONS**

### ***High Capacity (16A) Version***

RATING: 16A max. total; 16A max. per channel

INPUT: 10~50VDC (Connector: PH2)

OUTPUT: Constant Voltage, PWM (Connector: PH6)

PROTOCOL: DMX512

DMX OUTPUT JACK: 3.5 mm TRS

TRIGGER JACK: 2.5 mm TRS

SIZE: 90.2 mm (3.55 in.) length, 121.4mm (4.78 in.) width, 44.5 mm (1.75 in.) height

WEIGHT: 0.74 lb, 0.337 kg

FCC ID: XRSCRMXTIMO101

Model: 200-1502

**When connecting to the PH-6 Male (PH6.M) LED output connector, PH-5 Female (PH5.F) or PH-6 Female (PH6.F) connectors and adapters may be used on the LED output.**

- **Input voltage must match load voltage requirements!**
- **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

Must Be Serviced by a Trained Technician

Not for Residential Use



**Designed and Made in California**







**LITEGEAR™**

Tel: +1 (818) 358-8542

Email: [info@litegear.com](mailto:info@litegear.com)

Web: [www.litegear.com](http://www.litegear.com)