



TIMPANI-1 X1

TIMPANI

1x1 RGBAW LED PANEL

USER MANUAL

Conduct an orchestra of lights.

The Luxli Orchestra series can produce a dazzling symphony of light. Synchronize LED light units of all sizes, choose from millions of possible colors, apply lighting effects from four selectable modes, and control them instantly with the powerful Conductor mobile app.

The Timpani 1 × 1 multicolor LED light features a highly accurate and versatile RGBAW LED panel. It offers CCT, Filter, RGB, and Special Effects operating modes that provide remarkable control over each variable with an easy-to-use interface. The light is equipped with Bluetooth 4.2 LE that pairs with your tablet or smartphone the moment you open Luxli's Conductor mobile app. Whether controlled via the app or the intuitive interface on the unit itself, the Timpani will illuminate your creative vision with endless possibilities.

For the latest version of the Conductor mobile app, firmware updates, as well as videos and ideas for creative uses for the Timpani, visit luxlilight.com.

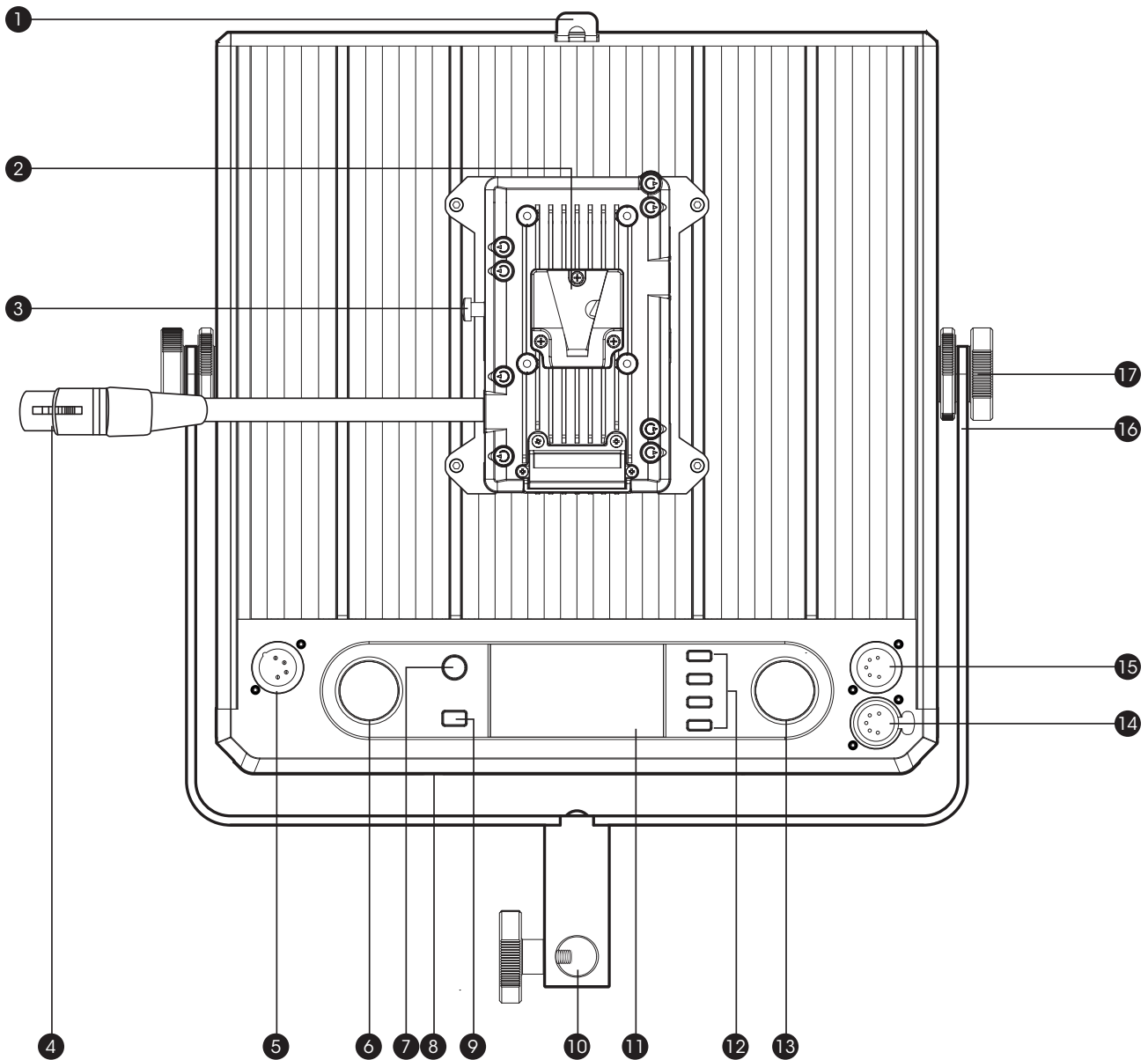
Precautions

- Keep this product away from water and flammable gases or liquids.
- Use only the correct, recommended voltage.
- Do not attempt to disassemble or repair this product.
- Clean this product with only a soft, dry cloth.
- To avoid damage to this product, be careful not to overtighten or improperly thread any of the threaded fittings.
- All images are for illustrative purposes only.

Troubleshooting

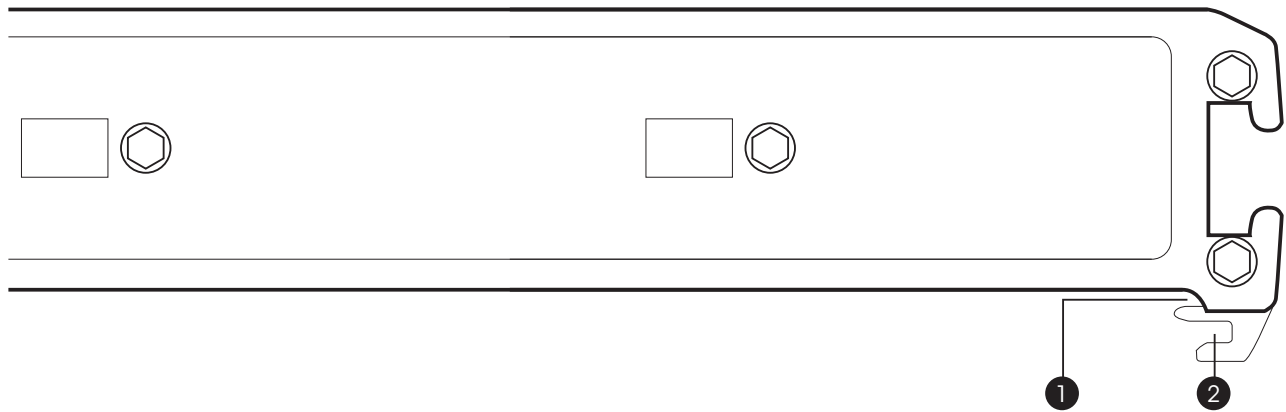
- If you encounter any problems, first try turning the device off and then on.
- If the problem persists, remove the battery for 15 seconds, and then restart.
- Go to luxlilight.com to make sure you have the most recent firmware update. If a new firmware version is available, follow the instructions on how to download it to your light.

Overview



Back:

- | | |
|--|----------------------------|
| 1. Barndoor hook | 9. Mode selector |
| 2. Battery slot (use V-mount batteries) | 10. 5/8 in. receiver |
| 3. Battery release button | 11. LCD screen |
| 4. XLR power cable | 12. Function buttons |
| 5. Power input | 13. Adjustment dial |
| 6. Dimmer | 14. DMX out |
| 7. Power button | 15. DMX in |
| 8. Micro-USB port for firmware updates
(visit luxlilight.com for details) | 16. Yoke |
| | 17. Yoke adjustment screws |



Top:

1. Diffuser slot

2. Barndoor slot

User Interface

Power Button

Press to power on or off.

The Timpani powers on to the last screen that was used.

The Timpani recalls the last settings in CCT, RGB, Filter, and Special Effects modes.

To use the factory presets, see Main Menu/Presets Menu below.

Mode Selector

Press the mode selector to cycle through the four operating modes: CCT, RGB, Filter, and Special Effects.

✧ Brightness Dial

In all operation modes, the Brightness dial adjusts the brightness from 100% to 0% in 1% increments.

In all operation modes, press the Brightness dial to toggle between the set brightness and 0%.

Function Buttons

The function buttons implement the action or access the menu indicated on the LCD screen next to the button.

⚙ Adjustment Dial

In all operation modes, the Adjustment dial changes the value of the highlighted function.

In CCT mode, press the Adjustment dial to toggle between 3200 and 5600 K color temperatures.

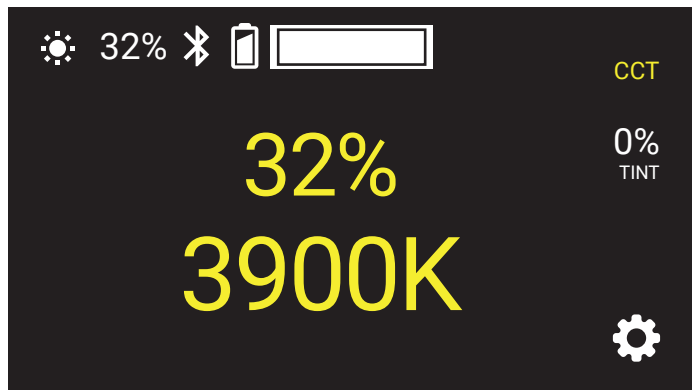
CCT Mode

Correlated color temperature (CCT) mode allows you to adjust the color temperature from 2800 to 10,000 K and set the green/magenta tint level.

CCT Screen

Adjusts the color temperature in 50 K increments.

Press the Adjustment dial to toggle between 3200 and 5600 K color temperatures.

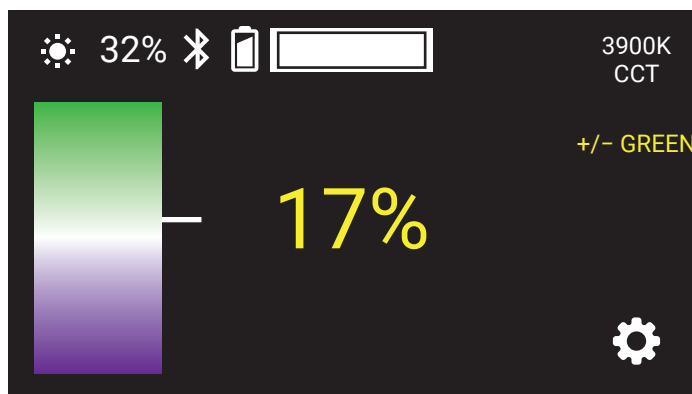


Tint (+/- Green) Screen

The +/- Green function lets you match the Timpani's color to an existing light source by adjusting the green/magenta saturation level. This is a particularly useful feature when shooting under fluorescent lights.

+/- Green sets the green/magenta saturation level in 1% increments from +100% (green) to -100% (magenta).

Press the CCT button to exit the +/- Green submenu and return to CCT mode.



RGB Mode

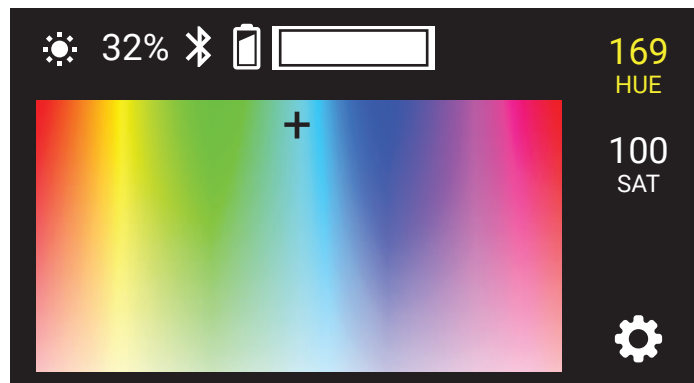
RGB mode lets you dial in almost any color by scrolling through the entire color wheel. This mode controls hue and saturation levels.

Hue Screen

Adjusts the hue from 0° to 360° on the color wheel.

The crosshair icon moves horizontally to represent the location of the hue on the color wheel.

The icon conveniently loops from 360° to 0° when scrolling through the color wheel.

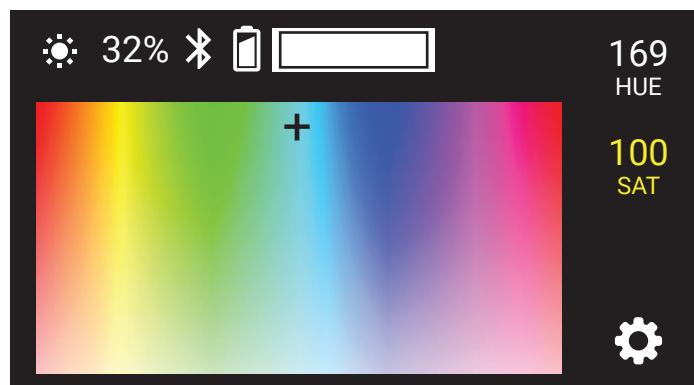


Saturation Screen

Controls the saturation of the hue from 100% to 0% in 1% increments.

The crosshair icon moves vertically to represent the level of saturation.

Press Hue to return to the Hue screen.



Note: The dimmer function remains active, and you can independently adjust the Timpani's brightness while in Saturation mode.

Filter Mode

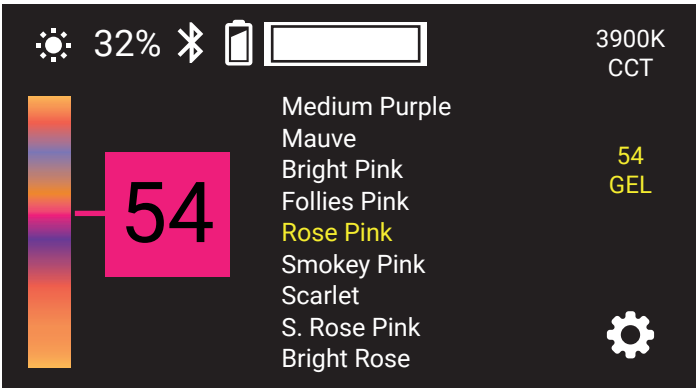
The Timpani is preset with 150 digital gel filters. Filter mode allows you to apply colored gels to any CCT setting.

Gel Screen

Scrolls through the 150 digital gel filters.

The LCD displays the filter number and name along with the color.

When Filter mode is selected, the Timpani defaults to the gel selection screen.

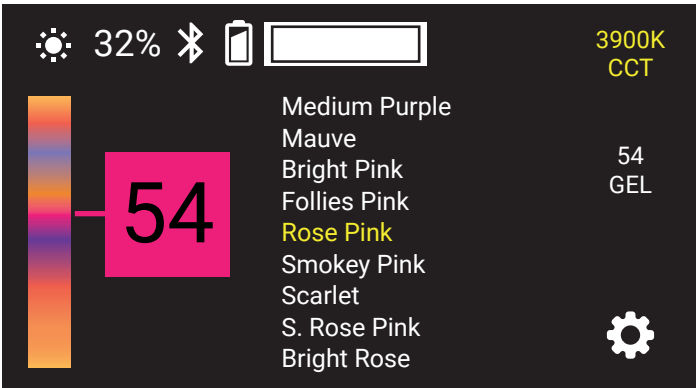


CCT Screen

Adjusts the white-balance color temperature without leaving Filter mode. The LCD continues to display the current filter number.

Press Gel to exit the CCT screen.

Important! When the white-balance temperature is changed in this mode, the temperature in CCT mode is also changed to this temperature setting. If the temperature setting is changed in CCT mode, the Timpani will set the same white-balance temperature here.

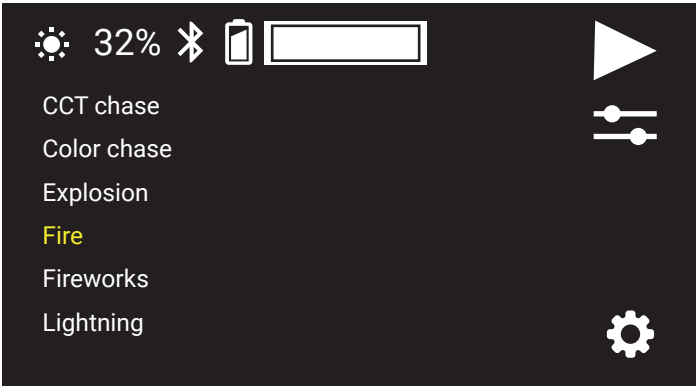


Special Effect Mode


The Timpani is preset with 10 animated special effects. Each effect has an edit mode that allows you to control the variable settings of the selected effect.

Special Effect Screen

Use the Adjustment dial to scroll down the list and select one of the ten preprogrammed effects. Press Play ► to run the effect. Press Stop ■ to discontinue.



Edit Menu

Each effect has several programmable settings. Pressing the Edit button  opens the Edit menu, where elements of color temperature, hue, saturation, timing, and duration can be modified.



1. Scroll to the setting you want to edit, and press Select.
2. A new screen will open where you can modify that setting.
3. To implement the change, press Confirm. The setting's screen will close, and the Edit screen will reappear.

To return to the Edit screen and the previous settings without saving the changes, press Back.

Press Back again to return to the Special Effects menu.

The Timpani displays the changes in real time as you modify them, so you can experiment with the settings while running the effect.

Description of the Special Effects

CCT Chase

A continuous loop that changes between two preset color temperatures. Good for simulating a sunrise, sunset, or a change from cloudy to sunny weather in real time. Since the sequence loops, you can shoot multiple takes without reprogramming the light.

CCT Start: Selects the color temperature at the beginning of the sequence (2400 to 10,000 K).

CCT Stop: Selects the final color temperature of the sequence (2400 to 10,000 K).

+/- Green: Sets the green/magenta (tint) saturation level in 1% increments from +100% (green) to -100% (magenta).

Time Unit: Select between seconds and minutes for the time loop.

Time/Loop: Select how many seconds or minutes the loop will last (1 to 160).

Color Chase

A continuous loop that moves through the color wheel between two selected colors. Since the sequence loops, you can shoot multiple takes without reprogramming the light.

Hue Start: Selects the color at the beginning of the sequence (0° to 360°).

Hue Stop: Selects the final color of the sequence (0° to 360°).

Saturation: Determines the color intensity from 100% (full color) to 0% (white light).

Time Unit: Select between seconds and minutes for the time loop.

Time/Loop: Select the duration in seconds or minutes for each loop (1 to 160).

Explosion

Simulates the light from explosions. The Timpani generates random-length pulses and strobes within a range of the red to amber section of the color wheel.

Explosions/Minute: Sets how many separate explosions occur each minute (1 to 360).

Duration (%): Set the percentage of time the light is illuminated for each pulse or strobe (5% to 95%).

Fire

Simulates the light of a candle, campfire, or bonfire in various wind conditions.

Fire Type: Select candle, campfire, or bonfire.

Wind Type: Select between no wind, breeze, windy, or storm.

Fireworks

Simulates the light from fireworks. Colors and timing of each flash are random.

Explosions/Minute: Sets how many flashes will occur per minute (1 to 50).

Duration (%): Determines the percentage of time the light is illuminated in each cycle. Select from a range of 5% (shortest duration) to 95% (longest duration).

Lightning

Simulates lightning by creating random short and long bursts.

CCT: Selects the color temperature of the lightning flashes (3000 to 10,000 K) in 50 K increments.

Interval(s): Sets the interval of seconds between lightning flashes (1 to 60).

Paparazzi

Simulates the random firing of multiple camera flashes.

Intensity: Higher intensity increases the number of random flashes per second (0 to 100).

Bulb Type: Determines the length of each flash. Slow is the longest duration. Modern is the shortest duration. Choose from Slow, Medium, Fast, and Modern.

CCT: Sets the color temperature of the flashes from 2800 to 10,000 K

+/- Green: Sets the green/magenta (tint) saturation level in 1% increments from +100% (green) to -100% (magenta).

Pulse

Offers a steady pulse at a programmable rate. Similar to the Strobe special effect (below), but the light fades on and off.

Hue: Selects the light color (0 to 360).

Saturation: Determines the color intensity from 100% (full color) to 0% (white light).

Pulses/Minute: Sets how many times the light will pulse each minute (1 to 200).

Siren

Simulates the flashing lights of an emergency vehicle, like a police car or ambulance.

Colors: Select the color combination of flashing lights. Choose red, blue, and white; red and blue; red and white; blue and white; blue; red; or SAE Amber.

Flash/Cycle: Set the number of times each individual color will flash within the cycle. Choose from 1 to 4 times per cycle.

Cycles/Minute: Determines how many repetitions of the cycle will occur each minute. Choose from 10 to 360.

Duration (%): Determines the percentage of time the light is illuminated in each cycle. Select from a range of 10% (shortest duration) to 90% (longest duration).

Strobe

Offers a steady flashing light at a programmable rate.

Hue: Selects the light color (0 to 360).


Saturation: Determines the color intensity from 100% (full color) to 0% (white light).

Frequency: Changes the number of flashes per second (1 to 25).

Duration (%): Determines the percentage of time the light is illuminated in each cycle. Select from range of 10% (shortest duration) to 90% (longest duration).

Main Menu

Use the main menu to program presets, configure DMX settings, and turn Bluetooth on or off. The main menu also displays the unit's serial number and current firmware version.

Press the function button  for the main menu. The main menu can be accessed in all operating modes.

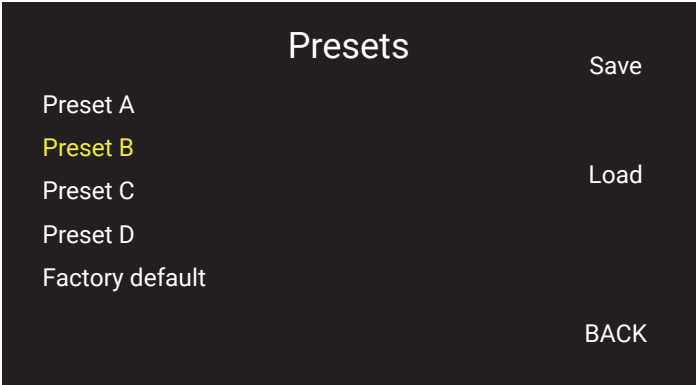
Use the Adjustment dial to choose Presets, DMX, Bluetooth, or About, and press Select to access the menu.

The Presets Menu

Your CCT, RGB, Filter, and Special Effects mode settings can be saved as presets, and these settings can be recalled from the presets menu. The Timpani allows you to save four presets per mode.

To save settings to a preset, do the following:

1. Adjust the settings in CCT, RGB, Filter, and Special Effects modes.
2. Press the function button to access the main menu.
3. In the main menu, use the Adjustment dial to select the presets menu, and press Select.
4. Use the Adjustment dial to select a preset group (A to D), and press Save.
5. At the prompt, press Confirm.
6. Use the Back button to scroll back to the operating modes.



To recall a preset:

1. Select the preset group with the Adjustment dial, and press Load.
2. At the prompt, press Confirm. The Timpani will load the saved settings.
3. Press Back to scroll back to the operation mode that was loaded to the preset. The Timpani will not display the preset settings until you scroll back to the appropriate operation mode.

To restore the original factory presets:

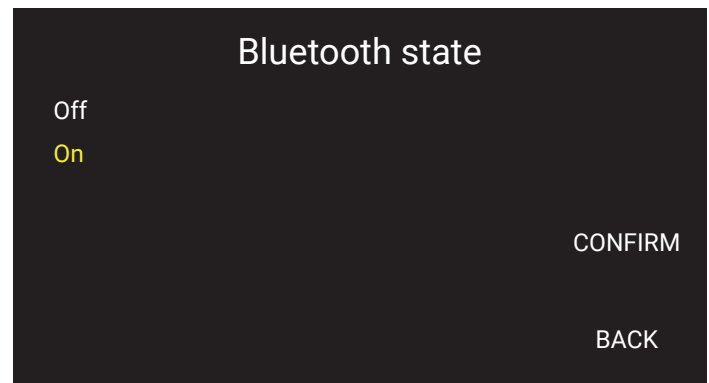
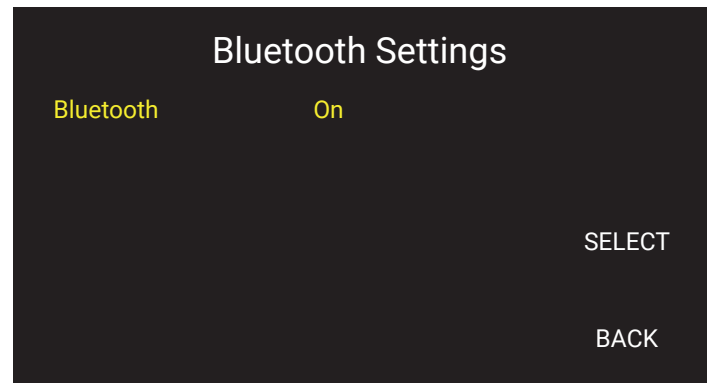
Use the Adjustment dial to select Factory Default. Press Load and then Confirm. Pressing Back before you press Confirm cancels this operation, and the Timpani retains all of your programming.

Bluetooth Menu

To control the Timpani via the Conductor mobile app, Bluetooth must be turned on.

To turn Bluetooth on and off:

1. Scroll to the Bluetooth menu, and press Select. The Bluetooth settings menu will open and indicate the Bluetooth status.
2. Press Select and use the Adjustment dial to select Off or On, and then press Confirm.
3. Press Back to return to the main menu.
4. Press Back again to return to the most recent operation mode.



The About Menu

Select the About menu to display the unit's serial number and the firmware version number.

Press Back to return to the main menu.



DMX Operation

Connecting the Timpani to a DMX Controller

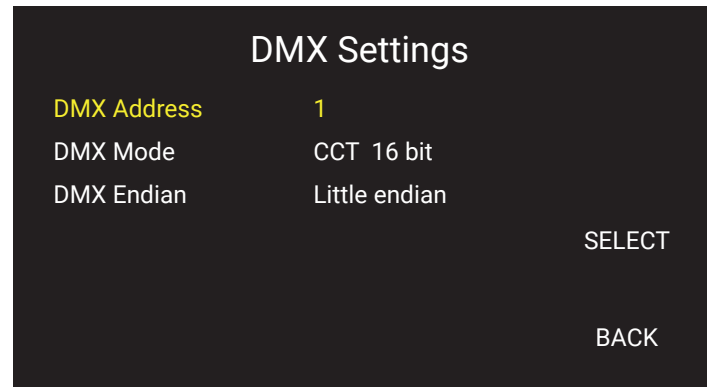
Important! *To connect the Timpani to a DMX controller, use a 5-pin DMX data cable. Do not use an XLR microphone cable. It will not transfer data to the Timpani.*

To avoid interference that can be introduced into the data over long cable runs, use a cable rated at 24 AWG or lower. Copper shielding, PVC jacket, and a twisted-pair cable will also reduce interference that can affect data transmission reliability.

1. Connect the DMX output from the controller to the Timpani's DMX input.
2. If there are no additional lights connected to the Timpani, connect a 5-pin DMX terminator to the Timpani's DMX output.
3. If additional lights are daisy-chained to the Timpani, use a DMX cable to attach the next light in the chain to the Timpani's DMX output. Be sure to attach a DMX terminator to the last light in the daisy chain.

The DMX Menu

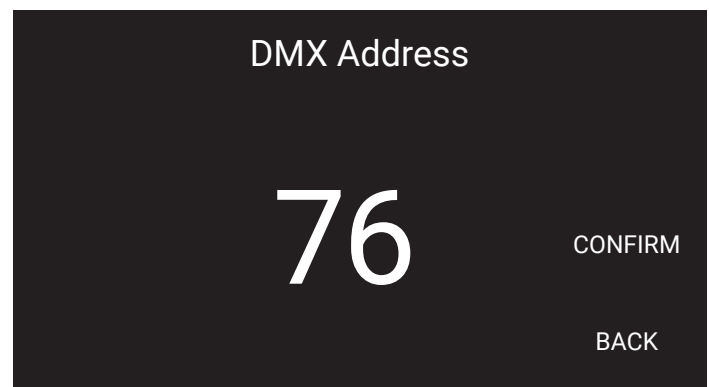
The DMX menu lets you select the DMX address, operating mode, and the DMX Endian setting.



Setting the DMX Address

The Timpani supports DMX 512 and has 512 channels available to receive DMX data from a controller. The DMX address is the first channel that will receive DMX data. For example:

- If you want the Timpani to receive data on channels 1 through 8, set the DMX address to 1.
- If you want the Timpani to receive data on channels 9 through 16, set the DMX address to 9.



To determine how many channels will be used by a particular mode, see the channel assignment tables below.

To set the DMX address:

1. Scroll to the DMX Address menu with the Adjustment dial, and press Select.
2. Use the Adjustment dial to select a channel from 1 to 512, and press Save.
3. At the prompt, press Confirm.

Selecting DMX Modes

The Timpani offers 8-bit and 16-bit modes.

The 8-bit modes should be used with basic DMX controllers such as dimming consoles.

16-bit modes are best for use with virtual DMX control from a computer or advanced 16-bit DMX controllers.

DMX Modes for the Timpani include:

CCT mode: (8 bit and 16 bit) Corresponds to the CCT mode described above. The DMX controller can adjust the color temperature from 2800 to 10,000 K and set the green/magenta saturation level.

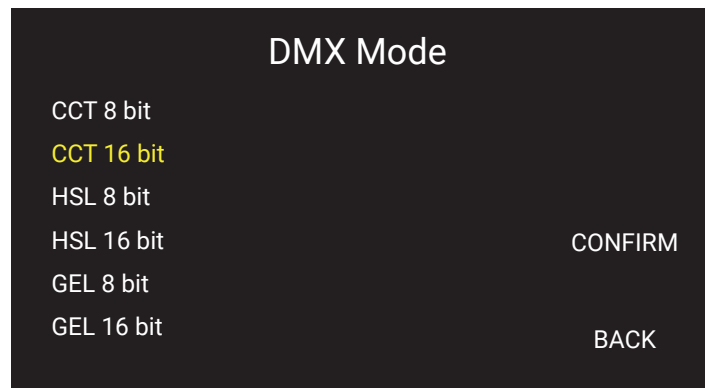
HSL mode: (8 bit and 16 bit) Corresponds to the RGB mode described above. This mode controls hue and saturation levels. The DMX controller can scroll through the entire color wheel in 1% increments.

GEL mode: (8 bit and 16 bit) Corresponds to the Filter mode described above. GEL mode allows the DMX controller to apply any of the 150 preset colored gels to any CCT setting.

Note: Details for each DMX mode can be viewed using RDM (Remote Device Management).

To set the DMX mode, follow these steps:

1. Scroll to the DMX Mode menu with the Adjustment dial, and press Select.
2. Use the Adjustment dial to select a DMX mode, and press Confirm.



DMX Mode Channel Assignments

CCT 8 bit

Channel	Value	Function
1	0 to 255	Master Intensity (0% to 100%)
2	0 to 255	CCT (2800 to 10,000 K)
3	0 to 54 55 to 154 155 to 155 156 to 255	Green Tint 0% -100% to -1% 0% 1% to 100%

CCT 16 bit

Channel MSB (Coarse)	Channel LSB (Fine)	Value	Function
2	1	0 to 65,536	Master Intensity (0% to 100%)
4	3	0 to 65,535	CCT (2800 to 10,000 K)
5	5	0 to 54 55 to 154 155 to 155 156 to 255	Green Tint 0% -100% to -1% 0% 1% to 100%

HSL 8 bit

Channel	Value	Function
1	0 to 255	Master Intensity (0% to 100%)
2	0 to 255	Hue (0° to 360°)
3	0 to 255	Saturation (0% to 100%)
4	0 to 255	Lightness (50% to 100%)

HSL 16 bit

Channel MSB (Coarse)	Channel LSB (Fine)	Value	Function
2	1	0 to 65,535	Master Intensity (0% to 100%)
4	3	0 to 65,535	Hue (0° to 360°)
6	5	0 to 65,535	Saturation (0% to 100%)
8	7	0 to 65,535	Lightness (50% to 100%)

GEL 8 bit

Channel	Value	Function
1	0 to 255	Master Intensity (0% to 100%)
2	0 to 255	CCT Gel 1 (2800 to 10,000 K)
3	0 to 255	Gel 1 Selection (same order as on display)
4	0 to 255	Fade from Gel 1 to Gel 2 (0% to 100%)
5	0 to 255	CCT Gel 2 (2800 to 10,000 K)
6	0 to 255	Gel 2 Selection (same order as on display)

GEL 16 bit

Channel MSB (Coarse)	Channel LSB (Fine)	Value	Function
2	1	0 to 65,535	Master Intensity (0% to 100%)
4	3	0 to 65,535	CCT Gel 1 (2800 to 10,000 K)
5	5	0 to 255	Gel Selection 1 (same order as on display)
6	6	0 to 255	Fade from Gel 1 to Gel 2 (0% to 100%)
8	7	0 to 65,535	CCT Gel 2 (2800 to 10,000 K)
9	9	0 to 255	Gel Selection 2 (same order as on display)

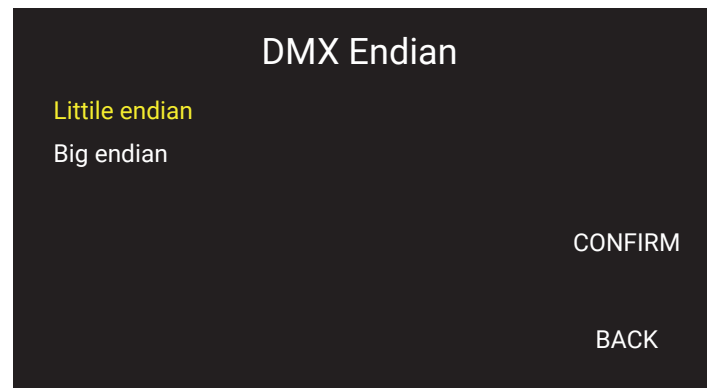
DMX Endian

The Timpani is preset to DMX Little Endian.

Refer to your DMX controller guide for more information about DMX Endian settings.

To change the DMX Endian setting:

1. From the DMX Settings menu, select DMX Endian.
2. Use the Adjustment dial to select the desired Endian mode, and press Confirm. After confirming your selection, you are returned to the DMX Settings menu.
3. Press Back to return to the main menu. Press Back again to return to the most recent operating mode.

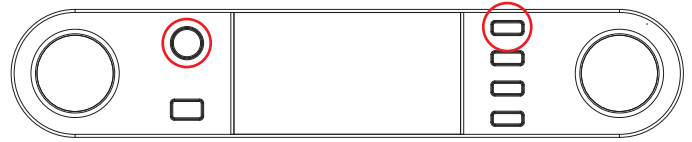


Upgrade Firmware

Information about firmware updates and version history is available at luxlilight.com.

To update the Timpani's firmware, follow these steps:

1. With the Timpani powered off, press and hold the top function button and then press the power button. The Timpani will open the Bootloader running screen.



2. Connect your Timpani to your computer with a USB Standard-A to USB Micro-B cable (not included).
3. Follow instructions on your computer to complete the firmware upgrade.

Once the upgrade is complete, the Timpani will boot up.

For complete information about firmware upgrades, see the product notices at luxlilight.com

Specifications

Light Fixture

Beam Angle	78°
Color Temperature	2800 to 10,000 K ±100 K
Color Accuracy Standard	CRI 95 TLCI 97
Cooling System	Passive
Dimming	Yes, 0 to 100% (Continuous)
Display	LCD
Light Panel	RGBAW LED
Housing Material	Aluminum
Lumens	4650
Photometrics	380.9 fc / 4100 lux at 2.99' / 0.91 m
Number of LEDs	672
Expected Lamp Life	50,000 Hours
Rectangular Panel Size	1 × 1 ft. (30.5 × 30.5 cm)
Fixture Dimensions (W × H × D)	12.25 × 12.25 × 1.4 in. (31.1 × 31.1 × 3.5 cm) Including Yoke
Fixture Weight	6.95 lb. (3.15 kg) Without Yoke

Connectors

Battery Plate	V-mount
Power Connector	4-pin XLR
DMX Connector	5-Pin XLR
Service Connector	Micro-USB

Mounting

Fixture Mount	5/8 in. Receiver
----------------------	------------------

Yoke

Yoke Material	Aluminum
Yoke Type	Yoke/Bracket
Tilt	180°

Remote Operation

Remote Control Type	Bluetooth, DMX
Number of DMX Channels	512
Wireless Range	30 ft. (9.1 m)

Power

AC Input Power	100 to 240 VAC, 50/60 Hz. at 2 A
DC Input Power	14.4–25 V VDC at 5 A
Power Source	AC Adapter, External Battery
Max Power Consumption	120 W
Power Pass Through	None

FCC Compliance Statement

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference
2. This device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment to an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Important: Changes or modifications to this product not authorized by Gradus Group could void the electromagnetic compatibility (EMC) and wireless compliance and negate your authority to operate the product. This product has demonstrated EMC compliance under conditions that included the use of compliant peripheral devices and shielded cables between system components. It is important that you use compliant peripheral devices and shielded cables between system components to reduce the possibility of causing interference to radios, televisions, and other electronic devices.

One-Year Limited Warranty

This Luxli product is warranted to the original purchaser to be free from defects in materials and workmanship under normal consumer use for a period of one (1) year from the original purchase date or thirty (30) days after replacement, whichever occurs later. The warranty provider's responsibility with respect to this limited warranty shall be limited solely to repair or replacement, at the provider's discretion, of any product that fails during normal use of this product in its intended manner and in its intended environment. Inoperability of the product or part(s) shall be determined by the warranty provider. If the product has been discontinued, the warranty provider reserves the right to replace it with a model of equivalent quality and function.

This warranty does not cover damage or defect caused by misuse, neglect, accident, alteration, abuse, improper installation or maintenance. EXCEPT AS PROVIDED HEREIN, THE WARRANTY PROVIDER MAKES NEITHER ANY EXPRESS WARRANTIES NOR ANY IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. This warranty provides you with specific legal rights, and you may also have additional rights that vary from state to state.

To obtain warranty coverage, contact the Luxli Customer Service Department to obtain a return merchandise authorization ("RMA") number, and return the defective product to Luxli along with the RMA number and proof of purchase. Shipment of the defective product is at the purchaser's own risk and expense.

For more information or to arrange service, visit www.luxlilight.com or call Customer Service at 212-594-2353.

Product warranty provided by the Gradus Group.

www.gradusgroup.com

LUXLI is a registered trademark of the Gradus Group.

© 2018 Gradus Group LLC. All Rights Reserved.



ORCHESTRA

MULTICOLOR LED **SERIES**

luxlilight.com