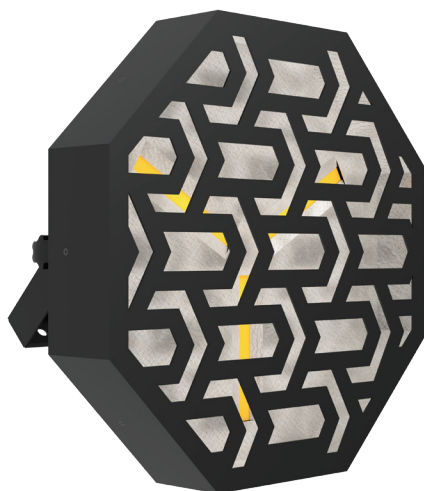




Blizzard Lighting, LLC
<http://www.blizzardpro.com>
Waukesha, WI USA
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1. GETTING STARTED

What's In The Box?

- 1x Lux Capacitor™ 2 Fixture
- 1x AC Power Cord
- This Lovely User Manual

Getting It Out Of The Box

Congratulations on purchasing the Lux Capacitor™ 2. Now that you've got your fixture, you should carefully unpack the box and check the contents to ensure that all parts are present and in good condition. If anything looks as if it has been damaged in transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Powering Up!

All fixtures must be powered directly off a switched circuit and **cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch.**

AC Voltage Compatibility - Confirm that the product's power requirements align with your local power supply before use. Refer to the product's label or the specifications chart provided with the product for details. The current rating listed represents the average current draw under normal conditions.

Warning! Verify the product's compatibility with your area's line voltage to avoid damage. Ensure that all connections are made to circuits that provide proper grounding (earthing).

Getting A Hold Of Us

If something is wrong, please visit our website at www.blizzardpro.com/support and open a support ticket. We'll be happy to help, honest.

Disclaimer: The information contained in this document is subject to change without notice. Blizzard Lighting™ assumes no responsibility or liability for any errors or omissions that may appear in this user manual. We reserve the right to update the existing document or create a new one to correct any errors or omissions. You can download the latest version of this document from www.blizzardpro.com.

Author:	Date:	Last Edited:	Date:
J. Thomas	8/7/2025	J. Thomas	9/3/2025

Safety Instructions



Please read these instructions carefully. They include important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future use. If you sell the unit to someone else, be sure that they also receive this User Guide.
- ALWAYS make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- This product is intended for indoor use only.
- To prevent risk of fire or shock, do not expose fixture to rain or moisture.
- Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- ALWAYS disconnect from the power source before servicing or replacing fuse and be sure to replace with same fuse size and type.
- ALWAYS secure fixture using a safety chain. NEVER carry the fixture by its head. Use its carrying handles.
- DO NOT operate at ambient temperatures higher than 104°F (40°C).
- In the event of a serious operating problem, stop using the unit immediately. NEVER try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- NEVER connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to the light source while it is on.

Caution! There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please open a support ticket at www.blizzardpro.com/support.

2. MEET THE LUX CAPACITOR™ 2

Main Features

- High-output vintage-style LED blinder with strobe and aura effects
- 3* 60W vintage warm white (amber) 2000K LEDs
- 48* 3W RGB LEDs for background/aura effects
- Independent control of warm white LEDs and background colors
- Multiple built-in programs with adjustable speed
- Sound active modes available in standalone mode
- Variable electronic dimming
- 1-25Hz strobe effects
- Flicker-free performance
- 5-pin DMX input and output
- PowerCON® True1-compatible power input

Control

- Protocol: USITT DMX-512, RDM
- DMX Channels: 6/8/10 DMX channels
- Easy-to-use 4-button control panel with LED display
- Operating modes: DMX512, M/S, auto, sound active mode

DMX Quick Reference (6/8/10-Channel Modes)

6CH	8CH	10CH	Function
1	1	1	Master Dimmer
2	2	2	Strobe (slow <-> fast)
3	3	3	Red intensity (0% <-> 100%)
4	4	4	Green intensity (0% <-> 100%)
5	5	5	Blue intensity (0% <-> 100%)
6	6	--	White intensity, (3 LEDs, 0% <-> 100%)
--	--	6	White 1 intensity, (0% <-> 100%)
--	--	7	White 2 intensity, (0% <-> 100%)
--	--	8	White 3 intensity, (0% <-> 100%)
--	7	9	Built-in programs
--	8	10	Program speed (slow <-> fast)

Figure 1: Lux Capacitor™ 2 Pin-Up Picture

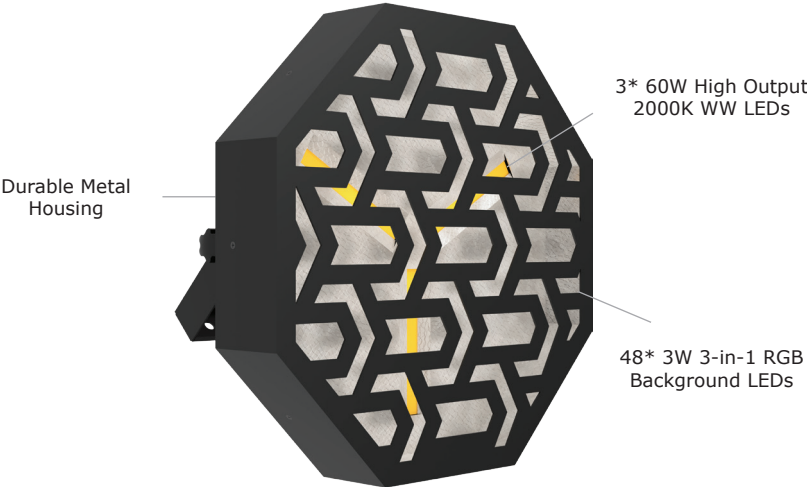


Figure 2: Rear Connections



3. SETUP



Before replacing a fuse, disconnect the power cord.
ALWAYS replace with the same type and rating of fuse.

Fuse Replacement

This fixture utilizes a high-output switch-mode power supply with an internal fuse. Under normal conditions, the fuse should not require replacement. Should your fixture require fuse replacement, please contact us for instructions.

Connecting A Bunch of Lux Capacitor™ 2 Fixtures

You will need a serial data link to run light shows using a DMX-512 controller or to run shows on two or more fixtures set to sync in master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Fixtures on a serial data link must be daisy chained in a single line. Also, connecting more than 32 fixtures on one serial data link without the use of an optically-isolated DMX splitter may result in deterioration of DMX signal. The maximum recommended cable-run distance is 500 meters (1640 ft).

Data/DMX Cabling

To link fixtures together you'll need data cables. You should use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

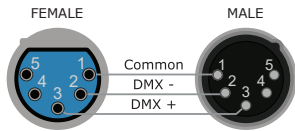
For instance, Belden© 9841 meets the specifications for EIA RS-485 applications. Standard microphone cables will "probably" be OK, but note that they cannot transmit DMX data as reliably over long distances. In any event, the cable should have the following characteristics:

- *2-conductor twisted pair plus a shield*
- *Maximum capacitance between conductors – 30 pF/ft.*
- *Maximum capacitance between conductor & shield – 55 pF/ft.*
- *Maximum resistance of 20 ohms / 1000 ft.*
- *Nominal impedance 100 – 140 ohms*

Disclaimer: The power connectors fitted to the fixture and fixture cord are designed for compatibility with products manufactured by Neutrik AG, Neutrik USA and their related entities, however they are not manufactured by, affiliated with or endorsed by Neutrik AG, Neutrik USA, or any related entity. Neutrik® and powerCON® are registered trademarks of Neutrik AG.

Cable Connectors

Cables must have a male XLR connector on one end and a female XLR connector on the other end. (Duh!)



A Word on Termination:

DMX is a resilient communication protocol, however errors still occasionally occur. Termination reduces signal errors, and therefore best practices include use of a terminator in all circumstances. If you are experiencing problems with erratic fixture behavior, especially over long signal cable runs, a terminator may help improve performance.

To build your own DMX Terminator:

Obtain a 120-ohm, 1/4-watt resistor, and wire it between pins 2 & 3 of the last fixture. They are also readily available from specialty retailers.

CAUTION: Do not allow contact between the common and the fixture’s chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

3-Pin??? 5-Pin??? Huh???

If you use a controller with a 3-pin DMX output connector, you will need to use a 3-pin to 5-pin adapter. If you’d like to build your own, the chart below details a proper cable conversion:

Conductor	3-Pin Female (Output)	5-Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data 1- (Primary Data)	Pin 2	Pin 2
Data 1+ (Primary Data)	Pin 3	Pin 3
Data 2- (Optional)	--	Pin 4 - Do Not Use
Data 2+ (Optional)	--	Pin 5 - Do Not Use

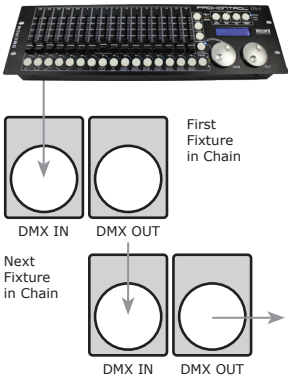
Take It To The Next Level: Setting Up DMX Control

Step 1: Connect the male connector of the DMX cable to the female connector (output) on the controller.

Step 2: Connect the female connector of the DMX cable to the first fixture’s male connector (input).

Note: It doesn’t matter which fixture address is the first one connected. We recommend connecting the fixtures in terms of their proximity to the controller, rather than connecting the lowest fixture number first, and so on.

Step 3: Connect other fixtures in the chain from output to input as above. Place a DMX terminator on the output of the final fixture to ensure best communication.

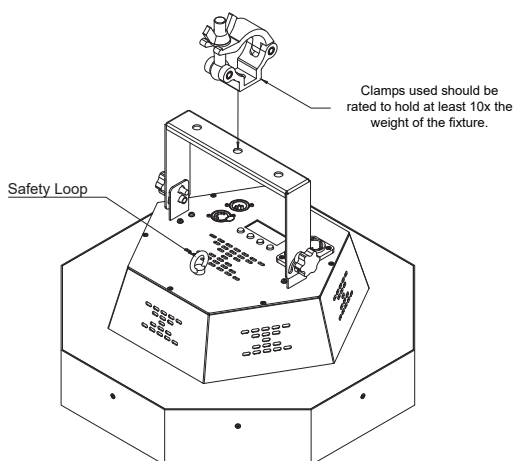


Fixture Linking (Master/Slave Mode)

1. Connect the (male) 5-pin connector side of the DMX cable to the output (female) 5-pin connector of the first fixture.
2. Connect the end of the cable coming from the first fixture which will have a (female) 5-pin connector to the input connector of the next fixture consisting of a (male) 5-pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

Mounting & Rigging

The bottom of the yoke includes three 10mm holes for securely mounting the fixture using standard truss clamps (not included). The back of the unit also provides a safety loop for use when rigging the fixture.



This fixture may be mounted in any SAFE position provided there is enough room for ventilation. It is important never to obstruct the fan or vents pathway.

Mount the fixture using suitable "C" or "O" type clamps. Each clamp must be rated to support at least 10x the fixture's weight to ensure structural stability. Do not mount to surfaces with unknown strength, and ensure properly rated rigging is used when mounting fixtures overhead.

Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

Safety cables **MUST ALWAYS** be used.

Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.

4. OPERATING ADJUSTMENTS

The Control Panel

All the features and different modes possible with the Lux Capacitor™ 2 are accessed by using the control panel on the rear of the fixture. There are 4 control buttons which allow you to navigate through the various control panel menus.

<MENU>

Is used to navigate to the previous higher-level menu item.

<ENTER>

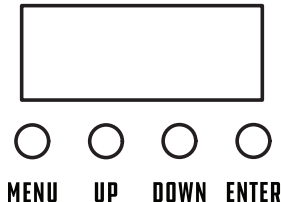
Is used to select and confirm/store the current selection.

<UP>

Scrolls through menu items and numbers in ascending order.

<DOWN>

Scrolls through menu items and numbers in descending order.



The control panel display shows the menu items you select from the menu map on page #11. When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press **<ENTER>**.

Use the **<UP>** and **<DOWN>** buttons to navigate the menu options. Press the **<ENTER>** button to select the menu function currently displayed, or to enable a menu option. To return to the previous option or menu without changing the value, press the **<MENU>** button.

Lux Capacitor 2 Menu Structure

Addr	1-512	Select starting DMX address
StAt	rEd	Red intensity, 0-255
	9rEE	Green intensity, 0-255
	bLUE	Blue intensity, 0-255
	UhIt	White intensity, 0-255
	Stro	Strobe, 0-255 (slow <-> fast)
Auto	At01-At10	Auto programs 1-10
	SP01-SP50	Auto speed (slow <-> fast)
Chnd	6ch, 8ch, 10ch	Channel mode selections
dInr	0-255	Dimmer 0-255
Soud	Sou1-Sou2	Sound active modes 1 and 2
LED	on-oFF	On = display timeout, turns off after 5s
dISP	on-oFF	On = rotates the display 180°
uEr	u001	Firmware version

DMX Mode

Allows the unit to be controlled by any universal DMX controller.

Set the Starting DMX Address:

- 1.) Navigate the menu using the **<MENU>** button until you reach **Addr**.
- 2.) Use the **<UP/DOWN>** buttons to select a channel from **1-512**.

Select the DMX Channel Mode:

- 1.) Navigate the menu to reach **Chnd**, then press **<ENTER>**.
- 2.) Use the **<UP/DOWN>** buttons to select **6CH**, **8CH**, or **10CH**.
- 3.) Press the **<ENTER>** button to confirm.

Master/Slave Mode

- 1.) Daisy chain the fixtures via DMX in/out without a DMX controller.
- 2.) Set all slave fixtures to the same DMX address as the master. The first fixture in the chain acts as the master, and up to 32 fixtures can operate in sync.

Built-in Programs

- 1.) Navigate the main menu until you reach **Auto**, and press **<ENTER>**.
- 2.) Use the **<UP/DOWN>** buttons to choose any of its built-in programs from **1-10**.
- 3.) Press the **<ENTER>** button to confirm your choice.
- 4.) You can then adjust the speed of the program from **1-50** (slow <-> fast).

Sound Active

- 1.) Navigate the main menu until you reach **Soud**, and press **<ENTER>**.
- 2.) Use the **<UP/DOWN>** buttons to choose either sound active program **1** or **2**.

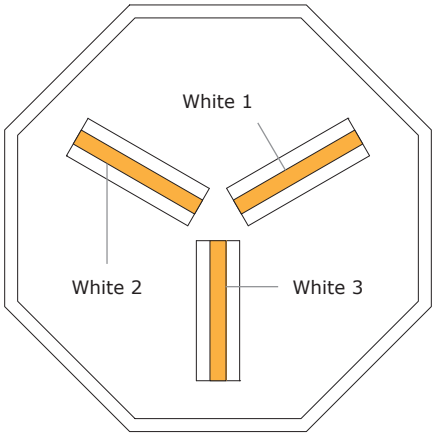
Manual Settings

- 1.) Navigate the menu to reach **StAt**, then press **<ENTER>**.
- 2.) Now you can use the **<UP/DOWN>** buttons to select **rEd** (red LEDs), **9rEE** (green LEDs), **bLUE** (Blue LEDs), **UhIt** (white LEDs), or **Stro** (strobe), then press **<ENTER>**.
- 3.) Use the **<UP/DOWN>** buttons to adjust the intensity level of the color channels or the strobe speed from **0-255**.

DMX Values In-Depth (6/8/10-Channel Modes)

6CH	8CH	10CH	Value	Function
1	1	1	000 <-> 255	Master Dimmer (0% - 100%)
2	2	2	000 001 <-> 255	Strobe No function Strobe (slow <-> fast)
3	3	3	000 <-> 255	Red intensity (0% <-> 100%)
4	4	4	000 <-> 255	Green intensity (0% <-> 100%)
5	5	5	000 <-> 255	Blue intensity (0% <-> 100%)
6	6	--	000 <-> 255	White intensity, (3 LEDs, 0% <-> 100%)
--	--	6	000 <-> 255	White 1 intensity, (0% <-> 100%)
--	--	7	000 <-> 255	White 2 intensity, (0% <-> 100%)
--	--	8	000 <-> 255	White 3 intensity, (0% <-> 100%)
--	7	9	000 <-> 020 021 <-> 024 025 <-> 029 030 <-> 034 035 <-> 044 045 <-> 049 050 <-> 054 055 <-> 060 061 <-> 090 091 <-> 095 096 <-> 120 121 <-> 150 151 <-> 180 181 <-> 255	Built-in programs No function Red Green Blue Yellow Magenta Cyan RGB (white) White Effect 1 Effect 2 Effect 3 Effect 4 Effect 5
--	8	10	000 <-> 255	Program speed (slow <-> fast)

LED Identification (10ch mode)



5. APPENDIX

Keeping Your Lux Capacitor™ 2 As Good As New

The fixture you've received is a rugged, tough piece of pro lighting equipment, and as long as you take care of it, it will take care of you. That said, like anything, you'll need to take care of it if you want it to operate as designed. You should absolutely keep the fixture clean, especially if you are using it in an environment with a lot of dust, fog, haze, wild animals, wild teenagers or spilled drinks.

Cleaning the optics routinely with a suitable glass cleaner will greatly improve the quality of light output. Keeping the fans free of dust and debris will keep the fixture running cool and prevent damage from overheating.

In transit, keep the fixtures in cases. You wouldn't throw a prized guitar, drumset, or other piece of expensive gear into a gear trailer without a case, and similarly, you shouldn't even think about doing it with your shiny new light fixtures.

Common sense and taking care of your fixtures will be the single biggest thing you can do to keep them running at peak performance and let you worry about designing a great light show, putting on a great concert, or maximizing your client's satisfaction and "wow factor." That's what it's all about, after all!

Returns (Gasp!)

We've taken a lot of precautions to make sure you never even have to worry about sending a defective unit back, or sending a unit in for service. But, like any complex piece of equipment designed and built by humans, once in a while, something doesn't go as planned. If you find yourself with a fixture that isn't behaving like a good little fixture should, you'll need to obtain a Return Authorization (RA).

Don't worry, this is easy. Just go to our website and open a support ticket at www.blizzardlighting.com/tickets, and we'll issue you an RA. Then, you'll need to send the unit to us using a trackable, pre-paid freight method. We suggest using USPS Priority or UPS. Make sure you carefully pack the fixture for transit, and whenever possible, use the original box & packing for shipping.

When returning your fixture for service, be sure to include the following:

- 1.) Your contact information (Name, Address, Phone Number, Email address).
- 2.) The RA# issued to you
- 3.) A brief description of the problem/symptoms.

We will, at our discretion, repair or replace the fixture. Please remember that any shipping damage which occurs in transit to us is the customer's responsibility, so pack it well!

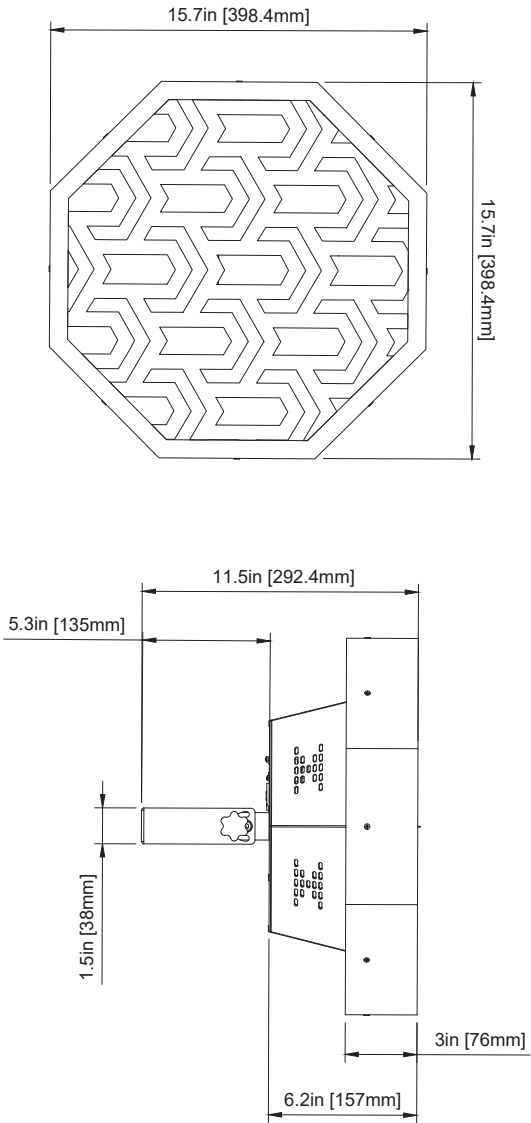
Shipping Issues

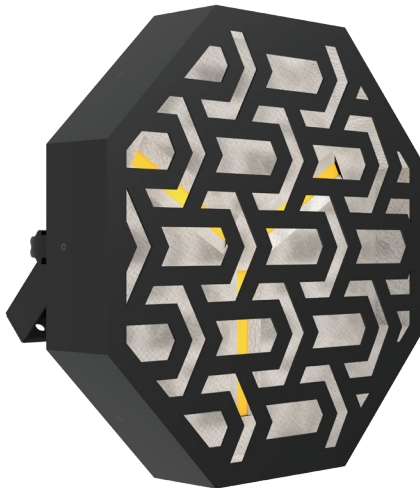
Damage incurred in shipping is the responsibility of the shipper, and must be reported to the carrier immediately upon receipt of the items. Claims must be made within seven (7) days of receipt.

Tech Specs!

Weight & Dimensions	
Dimensions	15.7 x 15.7 x 11.5 inches (398.4 x 398.4 x 292.4 mm)
Weight	14 lbs (6.34 kg)
Power	
Operating Voltage	AC 100V-240V/50-60Hz
Power Consumption	231W, 2.63A, PF: .76
Light Source	
LED	3x 60W vintage warm white (amber) 2000K LEDs 48x 3W RGB LEDs (background)
Luminous Intensity	425 Lux @ 2.5M, 108 Lux @ 5M
Thermal	
Max. Operating Temp.	104 degrees F (40 degrees C) ambient
Control	
Protocol	USITT DMX-512, RDM
DMX Channels	6/8/10-channel DMX modes
Input/Output	5-pin XLR male/female
Other Operating Modes	DMX512, M/S, sound active, auto mode
Warranty	
2-year limited warranty, does not cover malfunction caused by damage to LEDs.	

Dimensional Drawings





Enjoy your product!
Our sincerest thanks for your purchase!
--The team @ Blizzard Lighting