

elektraLite

elektraLite Stingray Fresnel RGBW 60w

USER MANUAL

(Version 1.1)

Product Stock Code : SRAYM FRSNL RGBW 60W



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1. Unpacking

Thank you for choosing the **elektraLite Mini Fresnel RGBW** fixture. For your own safety and to avoid any problems during installation or in operation, please read this manual before installing the fixture. This manual covers important information on installation and applications. Please keep this manual for future reference.

The **elektraLite Mini Fresnel RGBW** profile spot fixture uses a single 60 watt COB led. Please unpack the **elektraLite Mini Fresnel RGBW** carefully and check whether it was damaged in shipping.

2. Safety Instructions. (Please read them).

The fixture has left the factory in perfect condition. In order to maintain this condition and to ensure a safe operation, it is absolutely necessary for the user to follow the safety instructions and warning notes written in this user manual.

ElektraLite Mini Fresnel RGBW is a high voltage fixture. Be careful when dealing with high voltages.

Please read this manual. If you do not read this manual and damages occur to the fixture, then it could void the warranty.

During shipping, the **elektraLite Mini Fresnel RGBW** may have been exposed to high temperature changes or humidity changes. So, as a precaution, do not switch the **elektraLite Mini Fresnel RGBW** on immediately. Condensation can damage the **elektraLite Mini Fresnel RGBW** so leave the **elektraLite Mini Fresnel RGBW** switched off until it has reached room temperature. The **elektraLite Mini Fresnel RGBW** is an **INDOOR** operational fixture. Do **not** operate this fixture **outdoors** or anywhere there is high **humidity**.

The electric connection must carry out by a qualified person and it is absolutely essential that the **elektraLite Mini Fresnel RGBW** be **grounded**. So under no circumstances break off the ground pin on the Edison plug or use the fixture where a ground is not present. A ground pin is there for safety.

Do not grab the power cord and pull out the Edison plug by pulling on the power cord itself. This could cause damage to the cord, Edison plug and/or the fixture itself.

Please keep the **elektraLite Mini Fresnel RGBW** away from children and the general public. Please be intelligent and use common sense when operating the **elektraLite Mini Fresnel RGBW**.

3. General Guidelines.

ElektraLite Mini Fresnel RGBW is a lighting fixture for professional use on stages, in clubs, theatres, churches etc.

ElektraLite Mini Fresnel RGBW should only be operated at between 120 to 240 volts and only indoors.

ElektraLite Mini Fresnel RGBW should not be operated 24/7 (24 hours a day; 7 days a week). The fixture needs operation breaks to ensure that it will work for a long time without problems. Please do not shake the fixture and avoid using brute force when installing or operating it.

When choosing the location to install the **elektraLite Mini RGBW 60w**, please make sure that it is not exposed to extreme heat, moisture or dust and never install it outdoors. Make sure that the fixture has a good amount of free space around it for air flow. Do not install it in a confined space or have insulation around the fixture. The minimum distance between the fixture and the illuminated surface must be more than 3 feet.

Always mount the **elektraLite Mini Fresnel RGBW** with an appropriate safety cable.

Operate the **elektraLite Mini Fresnel RGBW** only when you are familiar with the features of the fixture. Do not permit operation by persons not qualified.

All modifications to the **elektraLite Mini Fresnel RGBW** will invalidate the warranty. There are absolutely no exceptions.

If the fixture is operated in any way different to the one described in this manual, the **ElektraLite Mini Fresnel RGBW** maybe damaged and the guarantee will be void.

4. Installation

Please ensure that the fixture is hung using the appropriate "C" clamp or half cheeseboro. A safety chain or cable should also be used as a secondary point of holding the fixture in case the clamp comes loose. Never hang the fixture without a safety chain or cable. Make sure, if you are using a Gel frame (Gel holder), that it is clipped into position correctly and cannot come loose.

If you are not qualified or have any doubts about hanging the fixture then do **NOT** hang it.

Do not clamp the safety cable to the U bracket or clamp. That is **not** a secondary safety point.

A secondary safety point is any point that will adequately hold the fixture if the "C" clamp or half cheeseboro fails. Then the safety cable would be the backup and stop the fixture from falling to the ground. So do **NOT** fix the safety cable to the same place that the "C" clamp is attached.

Installation during construction.

Many times fixtures are installed during the construction phase of a building. It is imperative that the fixture is protected during this phase. A lot of dust is usually created. This dust can adversely affect the fixture. Specifically, of course, in coating the lenses and therefore reducing the output. However much more seriously, dust, like sheetrock dust, can get inside the fan bearings especially if the fixture is being operated during construction. Sheetrock dust, mixed with the grease of the fan motor, will result in the fan's premature failure and that is not covered under the fixture's warranty. It is therefore strongly advised to keep the fixtures covered up during the construction phase and not used.

5. Grounding. (VERY IMPORTANT!!!)

Always make sure that there is sufficient grounding (earth) for the fixture. This is not only imperative within the circuit that the fixture is being connected to, but also make sure there is sufficient grounding into the building.

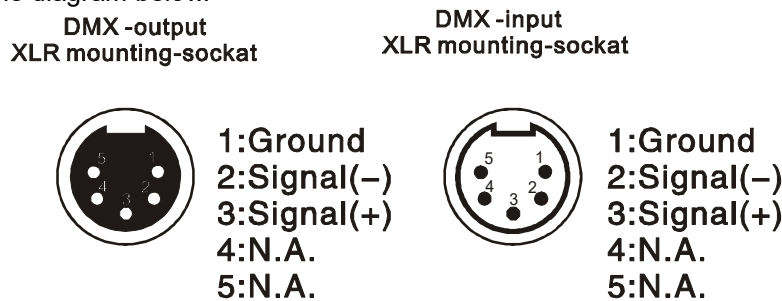
One further check : the ground to neutral voltage for each circuit. In a lot of buildings, voltages across these can damage fixtures or cause operational problems both for the fixture and DMX.

Please review these two important points with a qualified electrical contractor. If in any doubt, have an independent qualified third party electrical contractor check the installation, **well before** commencing installation.

6. DMX-512 Control Connection

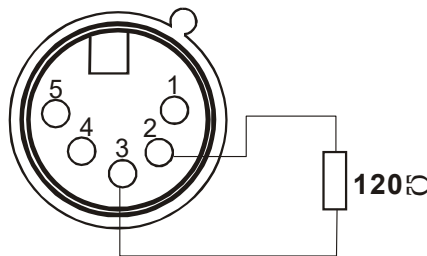
Connect an XLR cable to the female 5-pin XLR output of the DMX controller. The other end should be connected to the male 5-pin XLR input of the **elektraLite Mini RGBW 60w**. Then daisy-chain out of the first fixture into the next. Never “Y” split the DMX connection.

If more cable is needed, then it should be two core, 120 ohm screened cable fitted with a 5 pin XLR input and output connector. Please refer to the diagram below.



DMX-512 connection with DMX terminator

For installations where the DMX cable has to run a long distance or is in an electrically “noisy” environment, it is recommended that a DMX terminator is used. This helps prevent corruption of the digital control signal. The DMX terminator is simply a 5 pin XLR plug (male) with a 120 Ω resistor connected between pins 2 and 3. It is then plugged into the output XLR socket of the last fixture in the chain. Please see illustration below.



7. Menus in the fixture.

A.O.O I (1~512)

B.O.O I (1~512)

A.t.O I (1~10)

→ **SP.10** (1~20)

S.o.d. I (1~2)

S.t.R.t → **r.255** (0~255)

→ **5.t.00** (0~20)

F.r.E.g → **1.10**

C.u.r.U → **S.t.R.o**

→ **i.n.C.R**

→ **L.i.n.E**

→ **A.u.t.C**

E.E.N.P → **0**

→ **E.080** (40~120)

O.t.O I (1~11)

→ **r.255** (0~255)

.....

d.SP

r.ESt

Menus:

The first list is the root menu (press MENU to move through the list), the second list is the submenu (press ENTER to get into the submenu).

If the menu includes a decimal point, then that is data (a number) which can be changed using the Up/Down buttons.

Button operation:

Use the "ENTER" Button to save data. For example if you make the dmx channel 200 then you must press "ENTER" to save that information.

The "UP/DOWN" buttons have no function if the menu does not have a decimal point.

If the screen shows a decimal point, then the UP/DOWN buttons can adjust the data after the decimal point. Do not forget to press "ENTER" to save the data.

Menu (Cont.)

Menu		State	Operation		Note	
Main menu	submenu					
R.001	No submenu	A: advance	Use the up/down buttons to adjust	Adjust DMX address	A = Advance mode which basically means that the fixture is running in 8 channel mode. d= standard mode which means the fixture is running in 4channel Mode	
d.001	No submenu	d: dmx	Use the up/down buttons to adjust	Adjust DMX address		
Rt.01	One submenu	At: auto	Use the up/down buttons to choose which program to run. Press Enter to save			
	SP.10	SP: speed	Use the up/down buttons to choose the speed	Adjust speed		
Sod.1	No Submenu	Choose the speed of auto run	Press Enter to save			
		Sod: sound. A bass beat will turn the output of the fixture on or off	Use the up/down button to change the sensitivity			
StABt	5 Submenus	static	ENTER	Enter submenu	If a DMX controller is not being used, then the fixture can be set up in a static (manual) mode. All colors can be adjusted to any level and then saved. The resultant output can then be strobed as well if required.	
		static model				
	r.255	R、G、B、W.....	First use the up/down buttons to choose the color that needs to be added or changed.	Press Enter to get "into" the color.		
		Set color value from 000 to 255 (max)	Press Enter to save the value and get back to choosing the next color.			
	St.00	St: strobe	Use the up/down buttons to choose a strobe value from slow to fast	Change the strobe data		
Strobe and its speed		Press Enter to save the strobe speed.	Save and change			
FrEq	One Submenu	FrEq:frequency with units in KHz.	Press Enter			
	1.10	The frequency range is from 0.55 KHz to 25.0 KHz	Use the up/down buttons to choose the frequency required. Press Enter to save that frequency			
CvCU	One Submenu	Press Enter. Then use the up/down buttons to choose one of the 4 curve choices.				
	StAn	StAn = Standard curve	Press Enter to save.			
	inCA	inCA = Incandescent curve	Press Enter to save.			
	LinE	LinE = Linear	Press Enter to save.			
	quiC	quiC = Quick	Press Enter to save.			
tEMP	Two Submenus	tEMP = Temperature Temperature control function			It is strongly recommended that the Temperature setting is not changed. Please don't do it!!!	
	0	Current temperature will be displayed from 0 upwards.				
	t.080	t: max temperature				
Set the temperature protect						
Wt.01		Wt: white	Use the up/down button to adjust		Ut is better written as Wt which stands for White Temperature. This is where the final color temperature can be set up/changed. This is set up similar to the STATIC mode.	
		Set the color temperature	Press Enter to save	Enter submenu		
	r.255	R、G、B、W.....	First use the up/down buttons to choose the color that needs to be added or changed	Press Enter to get "into" the color.		
diSP	No menu	Adjust color value from 000 to 255 (max)	Press Enter to save the value and get back to choosing the next color			
		diSP: display	ENTER	reverse display		
reSt	No menu	set to reverse display			For when you fixture is hung upside down.	
		reSt: reset	ENTER	Rest all functions to including the DMX address to 001		

8. Screen protect / Lock out.

Many user, particularly in the broadcaster industry asked us to have a lock out of the functions in the menu, to stop accidental changes in the settings. So when the fixture is first powered up the password will be needed. The screen will have 4 lines (- - -) and the password must be keyed in. Use the up/down buttons and carefully do the following button pushes in this order "UP, DOWN, UP, DOWN, ENTER". This is the password.

If the wrong order is pressed or a wrong key, just continue to press a key until all 4 spaces are full. Then press ENTER. The 4 lines will return and the correct password can be input into the fixture. Do not forget the ENTER after UP, DOWN, UP, DOWN sequence is complete. (the screen shown below is what is seen as up, down, up, down is keyed into the fixture.

Also note that after 15-20 seconds, if no button is pressed, then the input of the password will be required.



9. Profiles (4 channel or 8 channel)

4 Channel Mode (when running in main Menu D001 to D512).

channel	data	function
1	0~255	color 1 (red)
2	0~255	color 2 (green)
3	0~255	color 3 (blue)
4	0~255	color (white)

8 Channel Mode (when running in main Menu A001 to A512)

channel	DMX value	function	notes
1	000~255	dimmer	
2	000~255	color 1 (red)	
3	000~255	color 2 (green)	
4	000~255	color 3 (blue)	
5	000~255	color 4 (white)	
6	000~30	no effect	
	031~200	Multi-color change	
	201~205	color temperature 1 (3200K)	This can be set in the menu. See UT (WT). So for example:- Color Temperature 1 (CT1) = 201-205. CT2 = 206-210, CT3 = 211-215 and so on.
	color temperature 2~10 (each 5 data is a color temperature level)	
250~255	color temperature 11 (10000K)		
7	0~10	no strobe	this channel controls the speed when running the build-in program
	11~255	speed of strobe (255 is the fastest)	
8	0~20	dimmer speed 4	This is the slowest dimmer fade time
	21~40	dimmer speed 3	
	41~60	dimmer speed 2	
	61~80	dimmer speed 1	This is the shortest dimmer fade time
	81~99	dimmer speed turned off	There is no delay when the colors are changed. The colors "snap" to that new dmx output level.
	100~109	In-built program 1	
	each 10 data is a new program	
	190~199	In-built Program 10	
	200~240	change color by sound control	A bass beat will cause the colors to change
241~255	strobe by sound control	A bass beat will trigger a strobe effect	

10. Cleaning and maintenance.

Now ignoring maintenance and cleaning is very good way of creating problems "down the road" and many companies and installations do just that. However the net result is, no matter what the fixture, premature failure!

Changing the oil in a car, most people do on a regular basis.

So with the fixtures, regular maintenance is an excellent practice, if you want the fixtures to last.

So what is the maintenance for the fixture?

Clean!!

Turn off the **elektraLite Mini Fresnel**

Using a small vacuum cleaner, suck the dust and "fur balls" out.

Go to the front of the fixture and suck around the lens. Move the lens in and out using the lens zoom thumb screw at the back of the fixture. This way any dust will be moved and the vacuum will suck it up.

Do not use a can of CO₂. That will just blast the dust and dirt everywhere!

There is a fan and it keeps the LED cool and keeps the electronics cool too.

Without the fan working efficiently and dust free, the fixtures will fail and that will be a lot more costly than having someone vacuum the fixtures on a regular basis.

How often should it be cleaned? It depends on where the fixtures are; in a very dusty atmosphere once a week. So check the fans on a regular basis, they may not need cleaned every week but a quick "visual inspection" should be done.

The lens should be cleaned using only a moist lint-free cloth. Never use alcohol or solvents to clean the fixture. Never spray anything onto the fixture at the front or in any place on the fixture.

11. Technical Specification.

- Operating voltage 100 – 240v
- Frequency 50 – 60 Hertz
- 60w COB RGBW led
- Fan cooled

ElektraLite is a division of Group One. Group One and its divisions are constantly improving their product range and we reserve the right to make changes without prior notice.

Other Products.

For other great products that are manufactured under the elektraLite product line, please go to the website at www.myelektraLite.com
A preview of the products include:-

elektraLite Paint Can Pendant House Light.



The ideal pendant light. Made specifically for the installation market.
Can be simply installed by an electrical contractor. 200 watts of power.
The Paint Can Pendant house light Utilizes a COB led with a CRI of 95.
Available as a Warm White, Cool White, Variable White and RGBW (where W = 3200k).
In built electronic Zoom from 10 to 60 degrees.
Control via DMX or Static (no controller needed).
Available as a 100v-240v version or a 277v version.

elektraLite Paint Can



The elektraLite Paint Can brings the output a par can from an led COB light source. With incredible efficiency and power the COB led has a CRI of 95 and is available as a WW or RGBW where W is 3200K. An electronic zoom give a range from 10° to 60° and barn doors are available to make perfect cuts to the beam.

elektraLite Fresnel

Available as WW, CW, VW or RGBW



The ideal complement to the Stingray ellipsoidal. The elektraLite Fresnel is available as a 300w WW or CW or as a 350w RGBW or as a 600w Variable White. The variable white at 600w allows it to match either a 300w WW or CW Fresnel or ellipsoidal.

elektraLite Stingray RGBW (where W= 3200K)



The Stingray RGBW (where W is at 3200K) is available in a 200 watt version & 350 watt version.

There is also a 350 watt RGBAL version as well as 300 watt Warm White and Cool White.

The line is completed with a huge 600 watt Variable White Stingray.

With the 600 watt VW, it can be mixed with 300w CW or WW fixtures. The end result is homogenized color temperatures.

ElektraLite SLA



The SLA is the perfect compact IP65 fixture for accent lighting everything from trees and walls to product high lighting. Even though it is compact it packs a massive punch with its 15 watt Cree RGBW leds.