

# elektraLite

## elektraLite Stingray Fresnel RGBW 350w USER MANUAL (Version 1.4)



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## 1. Unpacking

Thank you for choosing the **elektraLite Fresnel RGBW 350w** 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.

**ElektraLite Fresnel RGBW 350w** profile spot fixture uses a single 350 watt COB led. Please unpack the **elektraLite Fresnel RGBW 350w** 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 Fresnel RGBW 350w** 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 elektraLite Fresnel RGBW 350w, then it could void the warranty.**

During shipping, the **elektraLite Fresnel RGBW 350w** may have been exposed to high temperature changes or humidity changes. So, as a precaution, do not switch the **elektraLite Fresnel RGBW 350w** on immediately. Condensation can damage the **elektraLite Fresnel RGBW 350w** so leave the **elektraLite Fresnel RGBW 350w** switched off until it has reached room temperature. The **elektraLite Fresnel RGBW 350w** 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 Fresnel RGBW 350w** 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, like the fuse for the **elektraLite Fresnel RGBW 350w** 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 Fresnel RGBW 350w** away from children and the general public. Please be intelligent and use common sense when operating the **elektraLite Fresnel RGBW 350w**.

## 3. General Guidelines.

**ElektraLite Fresnel RGBW 350w** is a lighting fixture for professional use on stages, in clubs, theatres, churches etc.

**ElektraLite Fresnel RGBW 350w** should only be operated at between 120 to 240 volts and only indoors.

**ElektraLite Fresnel RGBW 350w** should not be operated 24/7 (24 hours a day; 7 days a week). **ElektraLite Fresnel RGBW 350w** needs operation breaks to ensure that it will work for a long time without problems. Please do not shake the **elektraLite Fresnel RGBW 350w** and avoid using brute force when installing or operating it.

When choosing the location to install the **elektraLite Fresnel RGBW 350w**, 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 **elektraLite Fresnel RGBW 350w** and the illuminated surface must be more than 3 feet.

Always mount the **elektraLite Fresnel RGBW 350w** with an appropriate safety cable.

Operate the **elektraLite Fresnel RGBW 350w** only when you are familiar with the features of the fixture. Do not permit operation by persons not qualified.

All modifications to the **elektraLite Fresnel RGBW 350w** will **invalidate the warranty. There are absolutely no exceptions.**

If **elektraLite Fresnel RGBW 350w** is operated in any way different to the one described in this manual, **elektraLite Fresnel RGBW 350w** maybe damaged and the guarantee will be void.

## 4. Installation

Please ensure that the **elektraLite Fresnel RGBW 350w** 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 **elektraLite Fresnel RGBW 350w** 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 **elektraLite Fresnel RGBW 350w** 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!!!)

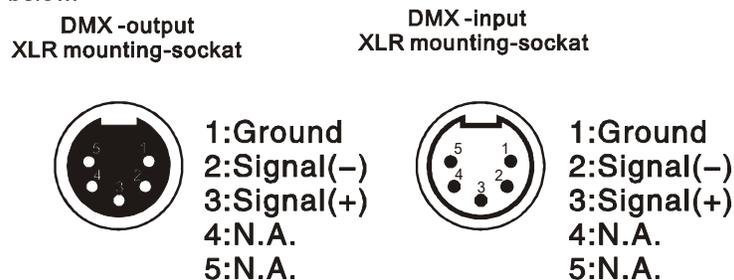
**Always make sure that there is sufficient grounding (earth) for the fixture.** This is not only imperative within the circuit that the fixture is being connected to, but also make sure there is sufficient grounding into the building.

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.

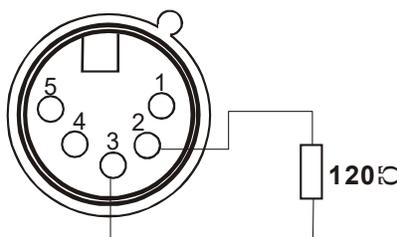
## 6. DMX-512 Control Connection

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 Fresnel RGBW 350w**. Then daisy-chain out of the first **elektraLite Fresnel RGBW 350w** into the next **elektraLite Fresnel RGBW 350w** or other dmx device. Never "Y" split the DMX connection. If more cable is needed, then it should be two core, screened cable fitted with a 5 pin XLR input and output connector. Please refer to the diagram below.



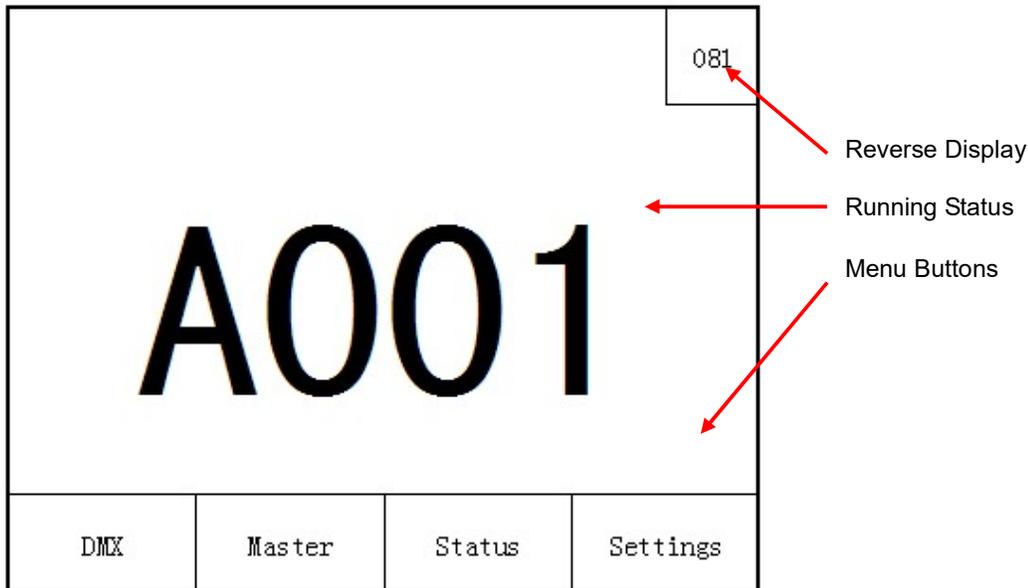
### DMX-512 connection with DMX terminator

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  $\Omega$  resistor connected between pins 2 and 3. It is then plugged into the output XLR socket of the last **elektraLite Fresnel RGBW 350w** or other dmx device in the chain. Please see illustration below.



## 7. Menus.

### Display Screen at Root Menu.



Mode	Display	Description
DMX Mode	Axxx	"A" is standard channel mode, 9 channels
Master-slave	Dxxx	"D" is basic channel mode, 5 channels
Manual	M-MC	"M" is Master mode, "MC" is "Mixed Color"
Auto run	M-Ax	"M" is for Master mode, "A" is "Auto" & "x" is Auto program number(1~8)
Sound activated	M-Sx	"M" is Master mode, "S" is "Sound" & "x" is Sound activated (1 or 2)

### DMX

Menu	Operation	Option	Description
DMX Start Address	Press "OK" key to enter into edit mode, use the ↑ or ↓ to edit the DMX address	001~512	
DMX Profile	Press "OK" key. Use the ↑ or ↓ to change between 9 ch or 5 ch.	9CH	Standard Channel Mode
		5CH	Basic Channel Mode

### Master

Menu	Operation	Description
Mixed Color	Press "OK" key to choose mode	Choose the color and strobe setting and zoom control
Auto Mode	Same as before	Choose the Auto and Speed setting
Sound Mode	Same as before	Choose the Sound and Mode setting

## Status

Menu	Description
Software	Name of software
Version	Version number of the software
Temperature	Shows the temperature of lighting fixture
DMX Status	Will display the status

## Settings

Menu	Operation	Option	Description
Touch Screen Calibration	Touch screen adjust		
PWM Frequency adjustment	Choose dimmer frequency	From 500Hz	
		..... To max 25KHz	
Dimmer Curve	Change dimmer curve	Standard	
		Incandescent	
		Linear	
		Quick	
Over Temperature	Temperature setting	45-95	Each 5 for increase or decrease
Backlight	Adjust the display brightness	10%-100%	Each 5% for increase or decrease
Backlight Timeout	Screen protect setting	No screen protect or black screen from 0-60 second	Each 5 for increase or decrease
Load Factory Settings	Reset		

## 8.DMX Profiles Standard or Basic

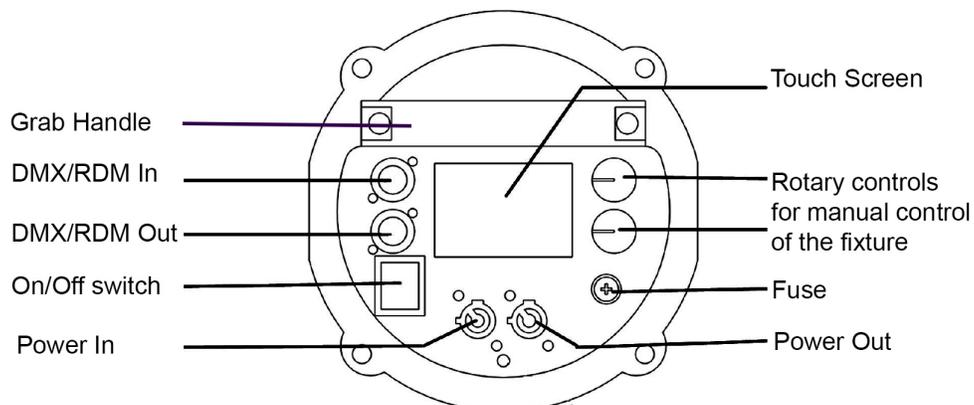
### Standard channel mode (9CH)

Channel	Data	Function	Remark
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 (3200K color temp)	
6	000-010	No function	
	011-255	Strobe speed (255 is the fastest)	
7	000-009	Null	
	010-019	Auto 1	
	.....	Auto 2~7	20-29=Auto 2, 30-39=3 etc.
	080-089	Auto 8	
	090-199	Null	
	200-219	Sound 1	
	220-255	Sound 2	
8	000-255	Zoom	
9	000-255	Speed of zoom	255 is the fastest

### Basic channel mode (5CH)

Channel	Data	Function
1	000-255	Color 1 Red
2	000-255	Color 2 Green
3	000-255	Color 3 Blue
4	000-255	Color 4 White (3200K color temp).
5	000-255	Zoom

## 8. The Rear Panel Layout.



## 9. 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 it an excellent practice, if you want the fixtures to last.

So what is the maintenance for the fixture?

### Clean the fans!

Turn off the **elektraLite Fresnel RGBW 350w**.

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

Do not use a can of co<sup>2</sup>. That will just blast the dust and dirt everywhere!

The fans keep the LED cool and keep 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 the fans 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 front lens should be cleaned so the light output is maintained.

The shutter blades sometimes require cleaning as well.

With the **elektraLite Fresnel RGBW 350w** turned off, use 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
- 350w 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](http://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 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.