elektraLite
Stingray RGBL
USER MANUAL
(V2.02)

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1. Unpacking

Thank you for choosing the **Elektralite Stingray RGBL** 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 Stingray RGBL profile spot fixture uses a single 300 watt COB led. Please unpack the **Elektralite Stingray RGBL** carefully and check whether it was damaged in shipping.
The following item should be in the box with the fixture:-

A Powercon blue Power Input cable
A White Powercon Output connector
Safety Cable

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 Stingray RGBL** 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 Stingray RGBL, then it could void the warranty.
During shipping, the **Elektralite Stingray RGBL** may have been exposed to high temperature or humidity changes. So, as a precaution, do not switch the **Elektralite Stingray RGBL** on immediately. Condensation can damage the **Elektralite Stingray RGBL** so leave it switched off until it has reached room temperature. The **Elektralite Stingray RGBL** 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 Stingray RGBL** 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 Stingray RGBL** is there for safety.

Always use the on/off switch and turn it to OFF before disconnect the **Elektralite Stingray RGBL**. Do not unlock the blue Powercon connector without turning the on/off switch to OFF. Powercon website has the following warning:-
Attention: The powercon is a connector without breaking capacity, i.e. the powercon should not be connected or disconnected under load or live!
Please see http://www.neutrik.com/en/audio/powercon/powercon-20-a/

Failure to turn off the **Elektralite Stingray RGBL first using the on/off switch** could result in damage to the fixture's electronics. This is not covered in the warranty.
Also 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 Stingray RGBL** away from children and the general public. Please be intelligent and use common sense when operating the **Elektralite Stingray RGBL.**

3. General Guidelines.

Elektralite Stingray RGBL is a lighting fixture for professional use on stages, in clubs, theatres, churches etc.
Elektralite Stingray RGBL should only be operated at between 120 to 240 volts and only indoors.
Elektralite Stingray RGBL should not be operated 24/7 (24 hours a day; 7 days a week). **Elektralite Stingray RGBL** needs operation breaks to ensure that it will work for a long time without problems. Please do not shake the **Elektralite Stingray RGBL** and avoid using brute force when installing or operating it.
When choosing the location to install the **Elektralite Stingray RGBL**, 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 Stingray RGBL** and the illuminated surface must be more than 10 feet.
Always mount the **Elektralite Stingray RGBL** with an appropriate safety cable.
Operate the **Elektralite Stingray RGBL** only when you are familiar with the features of the fixture. Do not permit operation by persons not qualified.
All modifications to the **Elektralite Stingray RGBL will invalidate the warranty. There are absolutely no exceptions.**
If **Elektralite Stingray RGBL** is operated in any way different to the one described in this manual, **Elektralite Stingray RGBL** maybe damaged and the guarantee will be void.

4. Installation

Please ensure that the **Elektralite Stingray RGBL** 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. There is an eye-bolt on the back of the fixture to which the safety chain or cable can threaded through and then hung from the secondary point. If you are not qualified or have any doubts about hanging the **Elektralite Stingray RGBL** 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 Stingray RGBL** if the "C" clamp or half cheesboro 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. All fixtures regardless of manufacturer have a surge at initial "turn-on". Once initial "turn-on" is complete, the surge current (per fixture) will travel down the ground. While each 20 Amp circuit may have the correct size of ground wire, the ground input to the building and/or electrical panel may not be sufficient for the job. Please review this with the electrical contractor. The **Elektralite Stingray RGBL** has a surge current over and above its operating current of approximately 4 Amp at 120 volts. If an installation has 100 **Elektralite Stingray RGBL** that means 400 Amps needs to be dissipated through the GROUND WIRING. If there is a lack of a sufficiently big enough ground cable into the building or on the individual circuits, it can cause severe damage to the fixture and this is **not** covered under the warranty.
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.

Circuit Limitation :-

There should be no more than 4 **Elektralite Stingray RGBL** on a 20 amp 120 volt circuit, having no other load on it. That means to say a, maximum of 4 **Elektralite Stingray RGBL** are on a 20 amp 120 volt circuit with nothing else plugged into that circuit

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 Stingray RGBL**. Then daisy-chain out of the first **Elektralite Stingray RGBL** into the next **Elektralite Stingray RGBL** 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 -output
XLR mounting-sockat

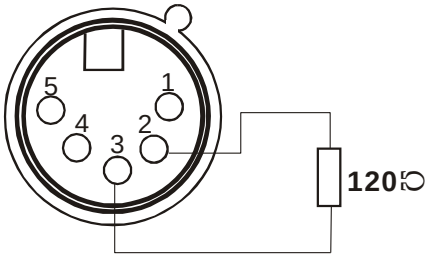
1:Ground
2:Signal(–)
3:Signal(+)
4:N.A.
5:N.A.

DMX -input
XLR mounting-sockat

1:Ground
2:Signal(–)
3:Signal(+)
4:N.A.
5:N.A.

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 <u>last</u> **Elektralite Stingray RGBL** or other dmx device in the chain. Please see illustration below.



7. Menus in the fixture.

There are just seven menu screens with the **Elektralite Stingray RGBL.**
These are the modes of operation for the fixture.To move from one mode to another just keep pressing the Menu button.

Root Menu	value
DMX (8ch) Address 001	001-505
DMX (4ch) Address 001	001-509
Auto > Prog : 01	1-10
Sound Mode	1 or 2
Static Mode	R, G, B & L 0-255
Temp > Current :	80 do **NOT** change
Reset	↑ ↓ ↑ ↓

A). DMX (8ch)

This sets up the start address number for the fixture when running in 8 channel mode.
First use the Menu button, by pressing it, to get to DMX (8ch)
Use the ↑ or ↓ buttons to get to the correct start address.
It will be a value of 001 to 505. 505 because the fixture is 8 channel “long”.
The dmx chain is only 512 “long”.
Once the address value is chosen Press Enter to save it.
If Enter is not pressed then, when the fixture is turned off, the DMX value will be lost.

B). DMX (4ch)

This sets up the start address number for the fixture when running in 4 channel mode.
First use the Menu button, by pressing it, to get to DMX (4ch)
Use the ↑ or ↓ buttons to get to the correct start address.
It will be a value of 001 to 509. 509 because the fixture is 4 channel “long”.
The dmx chain is only 512 “long”.
Once the address value is chosen Press Enter to save it.
If Enter is not pressed then, when the fixture is turned off, the DMX value will be lost.

D). Auto

There are a total of 10 inbuilt programs to the fixture.
First use the Menu button, by pressing it, to get to AUTO.
Use the ↑ or ↓ buttons to choose the appropriate program.
Press Enter to save that program.
This way if the fixture is turned off and then turned back on again,
the program will automatically start up again.
Pressing Enter also has the added feature of moving into the set up screen
for the speed at which the program will move.
The speed slowest setting is 01 and the fastest is 20.
After choosing the correct speed, press Enter to save the information.

E). Sound Mode

This sets the sensitivity of the inbuilt microphone.
First use the Menu button, by pressing it, to get to SOUND MODE.
Use the ↑ or ↓ buttons to choose between sensitivity level 1 or 2.
Press enter to save the level.
Level 1 is less sensitive than level 2.

F). Static Mode.

The **Elektralite Stingray RGBL** can be set to a single static look quickly.
It requires no dmx input signal.
Use the Menu button to get to STATIC**.**
The second line is labeled R with whatever the current value of output is shown for Red.
Use the ↑ or ↓ to change the value of the output of Red from 000 – 255.
Once the desired output is reached Press Enter to save that output value.
This will also move the screen to show G for Green.
Use the ↑ or ↓ to change the value of the output of Green from 000 – 255.
Once the desired output is reached Press Enter to save that output value.
This will now move the screen to show B for Blue.
Use the ↑ or ↓ to change the value of the output of Blue from 000 – 255.
Once the desired output is reached Press Enter to save that output value.
This will once again move the screen to show W for White.
Use the ↑ or ↓ to change the value of the output of White from 000 – 255.
Once the desired output is reached Press Enter to save that output value.
This will also move the screen to show S for Strobe.
Use the ↑ or ↓ to change the speed of the Strobe from 00 - 20.
00 being the slowest speed for the strobe and 20 being the fastest.
Once the desired speed is reached Press Enter to save that value.
The screen now returns to Red again. Use the Menu button to exit the STATIC mode
and move to the next menu.

G). Temp Mode.

This should not be altered by anyone except a qualified Elektralite Engineer.
The default setting is 80. Please do not change this under any circumstances.
Damage to the fixture which is not covered by any warranty, will occur if this setting is changed.
DO NOT CHANGE THE SETTINGS.

H). Reset

The fixture can be reset to its default settings by putting in the password in the Reset Menu.
Use the Menu button to get to RESET.
Press Enter. The screen will now read

RESET
Pwd:

Using the ↑ and ↓ buttons, press ↑ ↓ ↑ ↓ then press enter. (So press UP, DOWN, UP, DOWN, ENTER).
This is the password to reset the fixture.

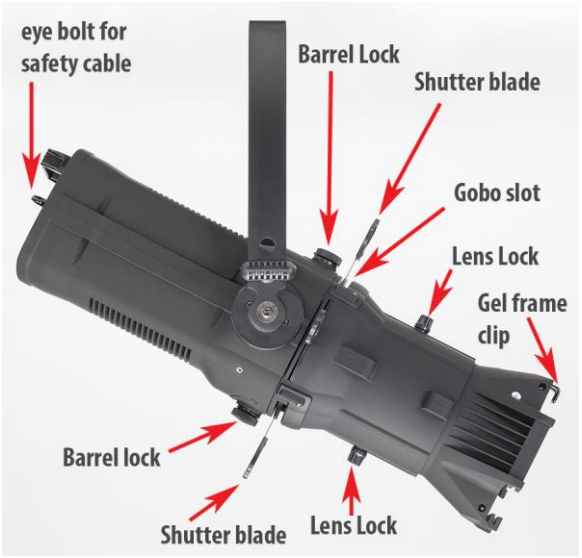
8. DMX Channel Assignments. (in 8 channel mode).

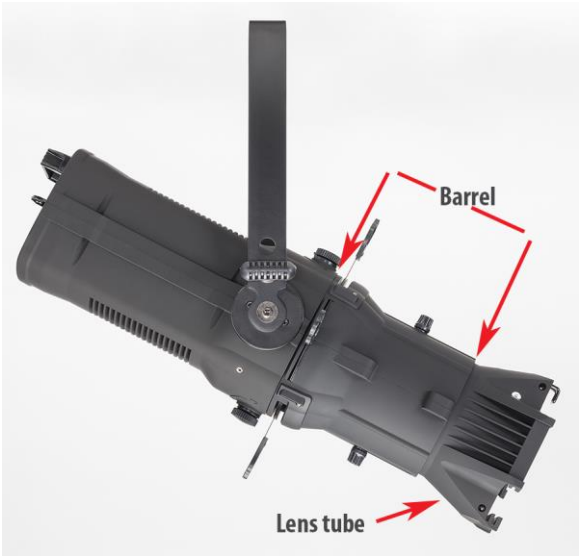
1	Grand Master for RGBL	0-255
2	**RED** Leds	0-255
3	**GREEN** Leds	0-255
4	**Blue** Leds	0-255
5	Limey White Leds (Lwhite)	0-255
6	No effect	0-030
	Snap to Red 255	031
	Crossfade Red 255→000 Green 000→255	031-060
	Crossfade Green 255→000 Blue 000→255	061-110
	Crossfade Red 000→255 Blue 255→000	111-150
	Crossfade Red 255→000 Blue 000→255 Lwhite 000→ 255→000	151-190
	Snap to Red 255 Green 255 Blue 255 Lwhite 255	191-200
	Snap to White 1 (approximately 3200ºK)	201-205
	Snap to White 2 (approximately 3400ºK)	206-210
	Snap to White 3 (approximately 4200ºK)	211-215
	Snap to White 4 (approximately 4900ºK)	216-220
	Snap to White 5 (approximately 5600ºK)	221-225
	Snap to White 6 (approximately 5900ºK)	226-230
	Snap to White 7 (approximately 6500ºK)	231-235
	Snap to White 8 (approximately 7200ºK)	236-240
	Snap to White 9 (approximately 8000ºK)	241-245
	Snap to White 10 (approximately 8500ºK)	246-250
	Snap to White 11 (approximately 10000ºK)	251-255
7	No Effect	000-010
	Strobe (011 = slowest. 255 = fastest)	011-255
8	Dimmer curve speed 4 (The slowest fade time)	000-020
	Dimmer curve speed 3	021-040
	Dimmer curve speed 2	041-060
	Dimmer curve speed 1	061-080
	No Dimmer curve speed	081-099
	Auto Program 01	100-109
	Auto Program 02	110-119
	Auto Program 03	120-129
	Auto Program 04	130-139
	Auto Program 05	141-150
	Auto Program 06	151-160
	Auto Program 07	161-170
	Auto Program 08	171-180
	Auto Program 09	181-190
	Auto Program 10	191-199
	Colors will change upon detection of sound input	200-240
	Colors will flash on and then off every time a sound input is detected	241-255

9. DMX Channel Assignments. (in 4 channel mode).

1	**RED** Leds	0-255
2	**GREEN** Leds	0-255
3	**Blue** Leds	0-255
4	Limey White Leds (Lwhite)	0-255

10. Description of Parts.





Gobo slot will take a standard gobo holder using an A size gobo.
There are 4 independently moveable shutter blades.
Undoing the two barrel locks will allow the barrel to be rotated or removed and shutters cleaned.
Always make sure the gel frame clip is down and locked if the gel frame is in place.
Undoing the two lens locks will allow the lens tube to be moved up or down.
Removing the two lens locks will allow the lens tube to be removed.
The **Elektralite Stingray RGBL** comes with a 19° degree lens tube. However other lens tubes are available : 5°, 10°, 26°, 36° and 50°.

11. 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 Stingray RGBL.**
Using a small vacuum cleaner, suck the dust and “fur balls” out.
Do not use a can of co^2. 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 Stingray RGBL** 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.

12. Technical Specification.

- Operating voltage 100 – 250v
- Frequency 50 – 60 Hertz
- 300 watt Warm White led
- Fan cooled
- 8.5” x 24” x 6.25”
- 18 pounds

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 Elektrabar with glare shield for perfect cuts

Utilizing homogenized 6-in-1 leds. RGBWAI where the I is indigo (not UV) ; this way perfect pastels like Lee 170 Lavender are flawlessly achieved.

The Elektralite 1018

Using 18 high powered 12 watt leds, the Elektralite 1018 is available using 4-in-1 or 6-in-1 leds.
Each led can produce any combination of colors as each led is either an RGBW or RGBWAI device

Elektralite ML902

The ML902 utilizes a 120 watt Led and is brighter than a 250 discharge light source. Features include:- Color wheel, two gobo wheels, rotating gobos, rotating 3 facet prism, focus, dimmer, strobe and 16 bit pan and tilt.

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.

Elektralite Dazer Downlight

The ideal pendant light. Made specifically for the installation market.
Can be simply installed by an electrical contractor. 180 watts of power.
Comes with 25 degree lenses installed but a lens pack (15°,45°, & 60°) allows you to change the beam angles.