



elektraLite

Stingray Fresnel 300W

USER MANUAL

(V4.0)

Stock Code SRAY FRSNL WW or FRSNL CW



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1. Unpacking

Thank you for choosing the **Elektralite Stingray Fresnel** 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 Fresnel profile spot fixture uses a single 300 watt COB led. Please unpack the **Elektralite Stingray Fresnel** 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
Barn doors

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 Fresnel** 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 Fresnel, then it could void the warranty.

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

3. General Guidelines.

Elektralite Stingray Fresnel is a lighting fixture for professional use on stages, in clubs, theatres, churches etc.

Elektralite Stingray Fresnel should only be operated at between 120 to 240 volts and only indoors.

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

When choosing the location to install the **Elektralite Stingray Fresnel**, 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 Fresnel** and the illuminated surface must be more than 10 feet.

Always mount the **Elektralite Stingray Fresnel** with an appropriate safety cable.

Operate the **Elektralite Stingray Fresnel** 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 Fresnel** will invalidate the warranty. There are absolutely no exceptions.

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

4. Installation

Please ensure that the **Elektralite Stingray Fresnel** 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 Fresnel** 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 Fresnel** 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. 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 Fresnel** has a surge current over and above its operating current of approximately 3.5 Amp at 120 volts. If an installation has 100 **Elektralite Stingray Fresnel** that means 350 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.

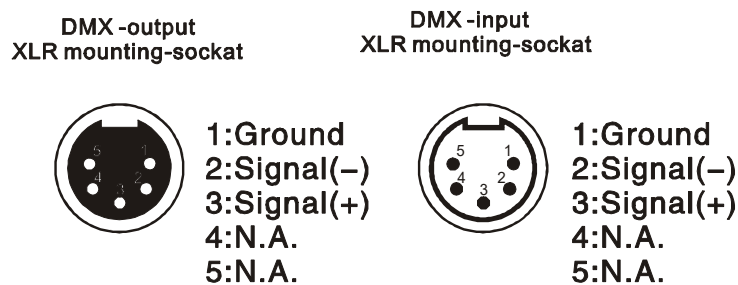
One further check: the ground to neutral voltage for each circuit. In a lot of buildings, voltages across these can damage fixtures or cause operational problems both for the fixture and DMX.

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.

6. DMX-512 Control Connection

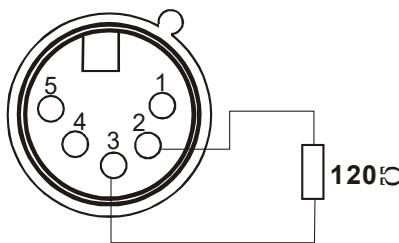
DMX control is through the 5-pin XLR connectors. The wiring in each connector is similar. Pin 1 is the ground, Pin 2 is the signal (data) - and Pin 3 is signal (data) +.

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 Fresnel**. Then daisy-chain out of the first **Elektralite Stingray Fresnel** into the next **Elektralite Stingray Fresnel** 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.

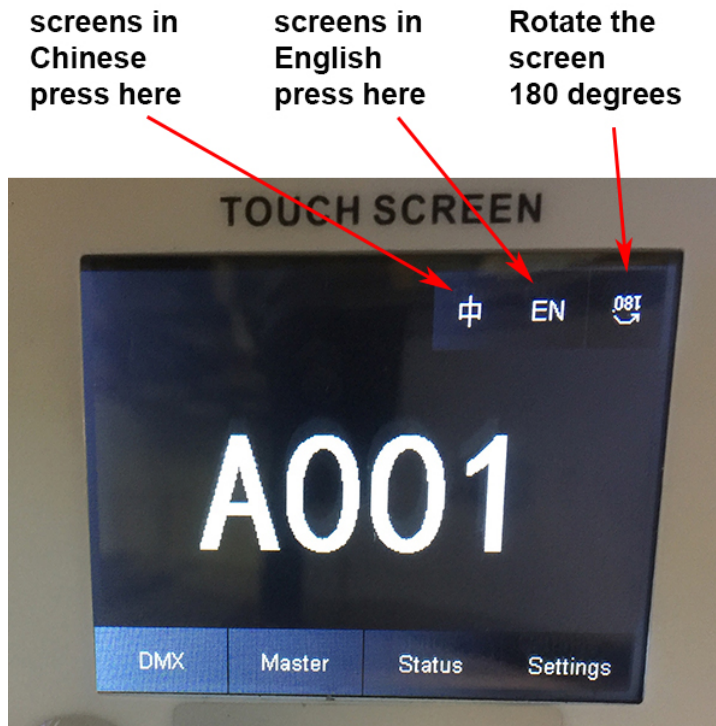


DMX-512 connection with DMX terminator

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 Ω resistor connected between pins 2 and 3. It is then plugged into the output XLR socket of the last **Elektralite Stingray Fresnel** or other DMX device in the chain. Please see illustration below.



7. Menus.

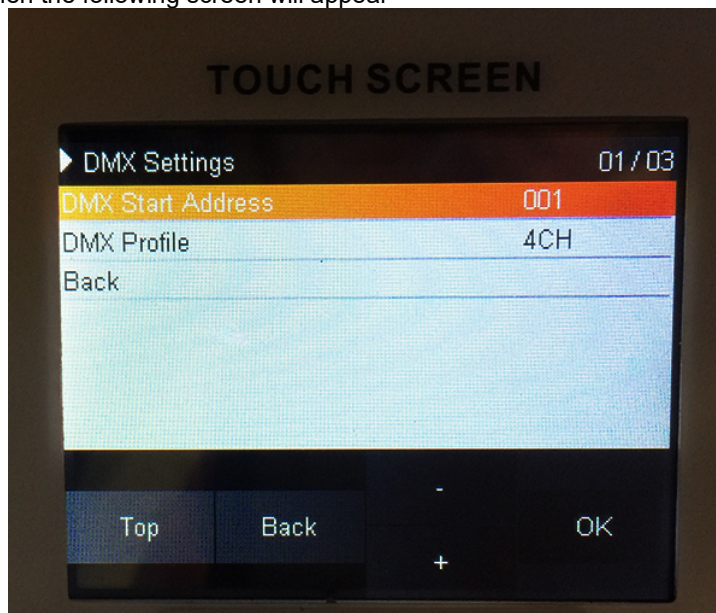


Above is shown the Root Directory for the fixture when it is initially powered up. A001 is the default DMX address. The three symbols at the top of the screen control the language of the menus and also the orientation of the screen. Merely touch the symbol to change.

At the bottom of the screen are the four directories : **DMX** **MASTER** **STATUS** **SETTINGS**

DMX

If the word DMX is touched then the following screen will appear



DMX Start Address.

The screen above has the "DMX Start Address" highlighted. Touch Ok and the first "0" will now be highlighted in black. Use the + or – keys to change the first "0". Then touch OK. The second "0" will now be highlighted and using the + or – key choose the appropriate value. Then touch OK again. The final digit "1" will now be highlighted and once again use the + or – key to choose the appropriate value. Touch OK a final time and the black highlight will go out and the DMX address will be set. Touch Back and then OK will take the screen back to the Root Directory.

DMX Profile.

The fixture has two profiles : 4CH (4 channels of DMX) & 2CH (2 channels of DMX). Touch the “DMX Profile” and it will be highlighted. Touch OK and 4CH will automatically change to 2CH. Touching OK a second time will go back to 4CH. Touch Back and then OK will take the screen back to the Root Directory.

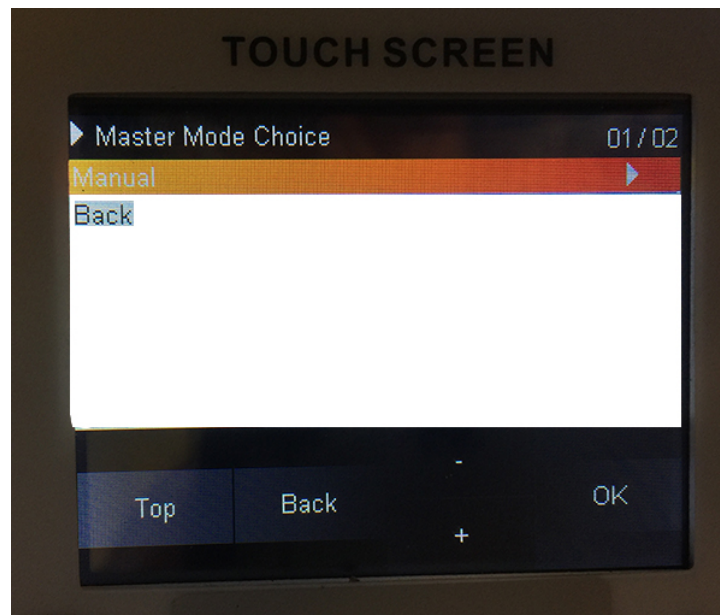
In 4 channel profile the channels are

1	Dimmer	000-255
2	No Function	000-010
	Strobe (increase in speed from 011-2550	011-255
3	Zoom	000-255
4	Speed of transition for the Zoom	000-255

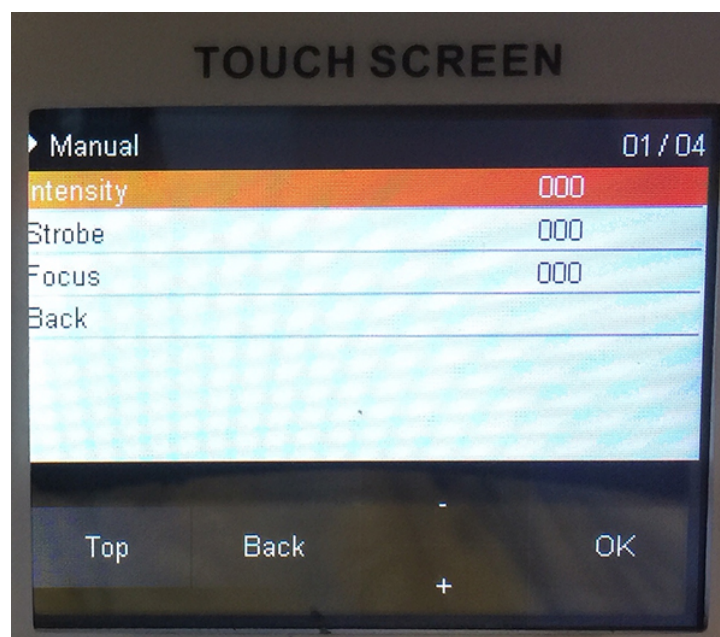
In 2 channel profile the channels are

1	Dimmer	000-255
2	Zoom	000-255

MASTER (STATIC LOOK)

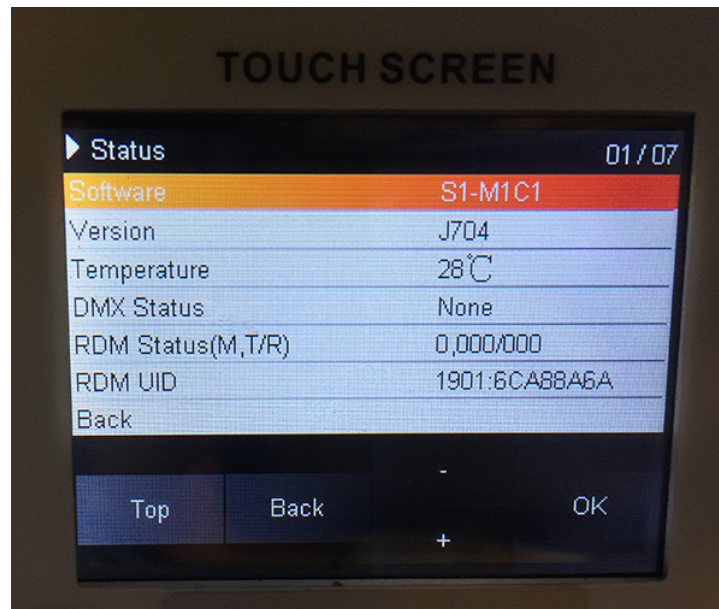


In the Master Mode Choice menu control of the fixture can be done from the fixture itself ; no controller is necessary. Touching Manual so that it is highlighted and then touching OK will take you to the set up screen below for manual control.



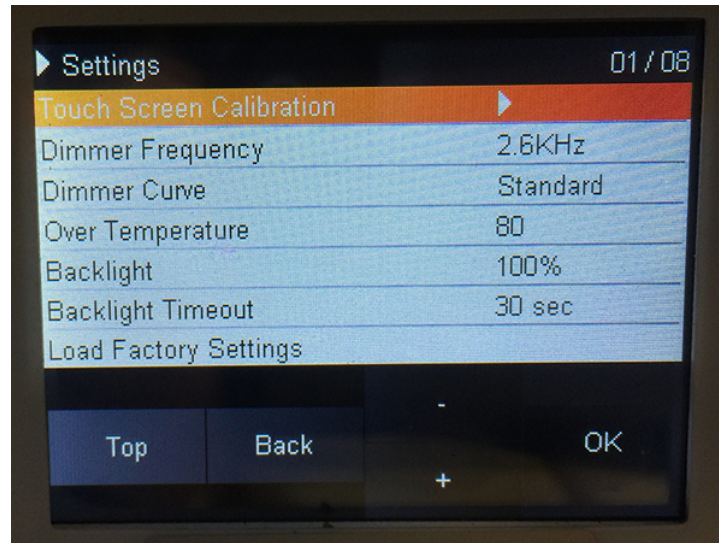
Just like the sequence used in the DMX address set up, highlight the function (Intensity, Strobe or Focus) first and then touch OK. The first “0” will be highlighted and can be adjusted. Touch OK to move on to the next number. Once again touch “Back” to go to the Root Directory.

STATUS



The Status screen provides the user will useful information regarding the status of the fixture as shown in the photo above.

SETTINGS



In the same manner as adjusting the dmx address, the functions on this screen be altered.

The dimmer frequency adjustment is the PWM frequency change and maybe necessary to accommodate high speed cameras.

Dimmer curve can be adjusted to the users choice of Standard, incandescent, Linear or "quick" (almost logarithmic!).

Over temperature should never be adjusted to a higher level than the default of 80C.

Backlight refers to the screen's backlight.

8. The Rotary Potentiometers (Pots).

All adjustments can be made using the touch screen or if preferred the Menu and ESC rotary pots, with push in switch, can be used instead.

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 Stingray Fresnel**.

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 Fresnel** 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.

10. Technical Specification.

- Operating voltage 100 – 250v
- Frequency 50 – 60 Hertz
- 300 watt COB led
- Fan cooled
- 23" x 13" x 13" 58cm x 32cm x 32cm
- 19 pounds net weight (8.5kgs).
- 22 pounds gross weight (10kgs).

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 from elektraLite.

elektraLite Stingray Fresnel



Available as a 300 watt Warm White or Cool White. Also available as a 600 watt Variable White. and a 350 watt RGBW. The "G" perfect for green screen. The Stingray Fresnel has a 15° to 50° Zoom.

elektraLite Stingray 350 watt RGBW, RGBAL & 600w Variable White



The elektraLite Stingray is a 350 watt LED ellipsoidal is Available as a RGBW, RGBAL and as a 600 watt Variable White.

Lens available are 5°, 10°, 19°, 26°, 36°, 50°.

The Stingray will accept other manufacturer's lens as well as elektraLite's own lenses.

elektraLite Stingray 300 watt Warm White, Cool White & 200 watt RGBW



The elektraLite Stingray is a 300 watt LED ellipsoidal with the output greater than that of a conventional 750 watt fixture. Different LED types are available including Warm White, Cool White and RGBW. Lens available are 5°, 10°, 19°, 26°, 36°, 50°. The Stingray will accept other manufacturer's lens as well as Elektralite's own lenses.

elektraLite SLA



The elektraLite 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 Paint Can Downlight



The ideal Pendant light. Made specifically for the installation market.
Available as a Warm White, Variable White & RGBW.
200 watts of COB power with an electronics zoom up to 60 degrees.

elektraLite Paint Can



The elektraLite Paint Can COB wash light
Available as a Warm White, Variable White & RGBW.
200 watts of COB power with an electronics zoom up to 60 degrees.