elektraLite

UV Dazer

(Version 3.6).

USER MANUAL

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1. Unpacking

Thank you for choosing the **elektraLite UV Dazer** fixture. For your own safety, please read this manual before installing the fixture. This manual covers important information on installation and applications. Please keep this manual for future reference.

To keep this simple, we are going to refer to the fixture as the **elektraLite UV Dazer** throughout the manual.

The **elektraLite UV Dazer** fixture uses 36 high powered 5 watt leds in a balanced arrangement giving incredible output. Please unpack it carefully and check whether it was damaged in shipping.

The following items should be in the box with the fixture:-

Color/Gel frame

2. Safety Instructions.

This device 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. The **elektraLite UV Dazer** 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 UV Dazer, then it could void the warranty.

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

Always disconnect the **elektraLite UV Dazer** from the power source, when the fixture is not in use or before cleaning it. **elektraLite UV Dazer** Never pull out the Edison plug out by just pulling on the power cord itself.

Please keep the **elektraLite UV Dazer** away from children and the general public. Please be intelligent and use common sense when operating the **elektraLite UV Dazer.**

3. General Guidelines.

elektraLite UV Dazer is a lighting fixture for professional use on stages, in clubs, theatres, churches etc.
elektraLite UV Dazer should only be operated at between 120 to 240 volts and only indoors.
elektraLite UV Dazer should not be operated 24/7 (24 hours a day; 7 days a week). **elektraLite UV Dazer** needs operation breaks to ensure that it will work for a long time without problems. Please do not shake the **elektraLite UV Dazer** and avoid using brute force when installing or operating it.
When choosing the location to install the **elektraLite UV Dazer**, 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 UV Dazer** and the illuminated surface must be more than 3 feet.
Always mount the **elektraLite UV Dazer** with an appropriate safety cable.
Operate the **elektraLite UV Dazer** only when you are familiar with the features on the fixture. Do not permit operation by persons not qualified.
All modifications to the **elektraLite UV Dazer will invalidate the warranty. There are absolutely no exceptions.**
If **elektraLite UV Dazer** is operated in any way different to the one described in this manual, **elektraLite UV Dazer** maybe damaged and the guarantee will be void

4. Installation

Please ensure that the **elektraLite UV Dazer** 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 the Gel frame (Gel holder) is clipped into position correctly and cannot come loose.
If you are not qualified or have any doubts about hanging the **elektraLite UV Dazer** 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 UV Dazer** 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

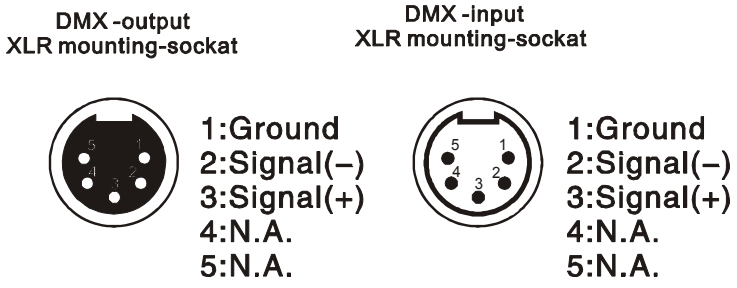
5. Grounding.

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 UV Dazer** has a surge current over and above its operating current of approximately 2 Amp at 120 volts. If an installation has 100 Dazers that means 200 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. PLEASE REVIEW THE BUILDING AND CIRCUIT WIRING BEFORE PROCEEDING WITH AN INSTALLATION.

6. DMX-512 Control Connection

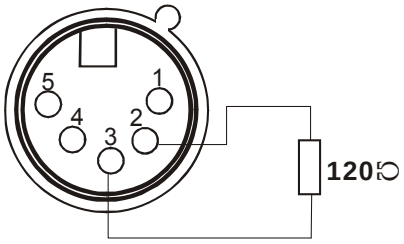
Connect an XLR cable to the female 5-pin XLR output of your **elektraLite CP 20** or other DMX controller. The other end should be connected to the male 5-pin XLR input of the **elektraLite UV Dazer**. Then daisy-chain out of the first **elektraLite UV Dazer** into the next **elektraLite UV Dazer** or other dmx device. Never **“Y”** split the DMX connection.

If you need more cable, 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 UV Dazer** or other dmx device in the chain. Please see illustration below.



7. Menus in the fixture.

Root Menu	Sub Menu 1	Sub Menu 2
STAT (STATIC LOOK)	UV	0-255
RUN	DMX	
	SLAV(E)	
DMX	ASSIGN DMX CHANNEL	1-512
PERS (PERSONALITY)	U	
	U.D	
	U.S	
	U.S.ID	
ID	ID 01 THROUGH 255	
SET	UPLD	Password required See **14. KEY (Page 8)**
	DV	
	DIM	
	ID	
	REST (RESET)	
KEY	OFF	
	ON	

8. Static Look.

The **elektraLite UV Dazer** can be set to a single static look quickly.
Use the Menu button to get to STAT.
Press Enter.
The next screen will read U000. This is addressing the leds.
Use the ↑ or ↓ to increase the value of the UV output.
Numbers are expressed in DMX values so 0 is no output and 255 is highest output.
Press Enter to save the value.
The screen will automatically advance to the strobe function.
If the strobe function is to be in the static look, then use the ↑ or↓ to crease the value of strobes flash rate.
Press Enter to save the value.
This is the last entry and the static look is complete. Pressing the Enter key just continues around if you need to make fine adjustments to the color of the static look.
Do not press MENU as this will get you out to the Root directory and out of the static look.

9. Run Mode.

Run allows the fixture to operate in either DMX or Slave operation.
Using the Menu button in the root menu go to RUN.
Press Enter to get to DMX mode. To get to SLAV mode use the ↑ or ↓
And press enter to save this setting.

10. DMX 512 Setting (address).

Sets up the address for the dmx.
Using the Menu button in the root menu go to **DMX**
Press Enter to get into DMX menu and the display will read the current dmx channel.
The display will read for example **d.001**
This means the fixture's current address is **001**
To change it, use the ↑ or ↓ buttons to get to the correct address.
Press Enter to save the dmx address. The display will momentarily display the word "OK" and then go back to the DMX menu.
To exit out to the root directory, use the menu button.

11. Fixture Personality.

There are several different choices on how the fixture will operate.
What these "Personalities" do in terms of their channel assignments is detailed in the tables on page 10.
To change a Personality use the Menu button to get to **PERS**
Press Enter then using the ↑ or ↓ buttons go to the personality required.
Press Enter to save the Personality.

12. ID Address.

An **elektraLite UV Dazer** can be addressed (controlled) through the dmx or instead it can have its own unique ID address.
There are a total of 255 different ID addresses from 1 to 255.
To set up the address for a fixture, use the Menu button in the root menu go to **ID**
Press Enter and then using the ↑ or ↓ buttons,to select the ID address.
Press Enter to save the address.
For the ID address to work you must chose the personality that uses the ID. U.S.id
This allows you to access the ID address system on channel 4.
Set the DMX address to d.001 for the fixture. So if ID address 123 is chosen then go to channel 4 on the lighting board and set the level at 123. You will then be controlling only fixture(s) with ID address 123.

13. SET. **(Set has several Sub Menus which allow functions to be used).**

1). **UPLD.** Custom programs can be uploaded from a master fixture into a slave fixture.
First:- connect the fixtures to power and have a dmx cable going from the Master (dmx out) to the Slave (dmx in).
Second:- using the Master fixture. Go through the Root Menu until **Set**. Press Enter and then use the ↑ or ↓ buttons to get to UPLD. Press Enter. The display will have 4 dots across the bottom. The password needs to be entered. The password is the following sequence using the ↑ and ↓ buttons.
↑ ↓ ↑ ↓ press Enter once complete. The upload with start immediately.
The upload average time for transmission is about 30 seconds.
While the upload is in progress the display will be flashing in YELLOW.
Once upload is complete and successful the word END will appear in green
If there is a problem, red will be the color noted.
Several fixtures maybe linked together in the master/slave scenario and programmed simultaneously.

2). **REST**
This resets all values to their default.
Go through the Root Menu until **Set**. Press Enter and then use the ↑ or ↓ buttons to get to REST. Press Enter. The display will have 4 dots across the bottom. The password needs to be entered. The password is the following sequence using the ↑ and ↓ buttons.
↑ ↓ ↑ ↓ press Enter once complete. The display will read OK followed by a return to the REST sub menu. The Menu button will need pressing to return to the Root Menu. Only once at the Root Menu will the dmx control function. Please note the Reset also takes the dmx address back to 001.

3).**ID.**

ID must be turned ON for it to work from the lighting controller.

So, if in U.S.id mode you want dmx channel 4 (the ID) to work, it must be turned on in this submenu.

Go through the Root Menu until **ID.** Press Enter and then use the ↑ or ↓ buttons to get to either OFF or ON. Once chosen, press Enter to save the setting and then Menu to exit out back to the Root Menu.

4). **DIM**

The Dim function allows different Dimmer curves to be chosen. There are 5 choices.

Choice 1 :- this is Dim off. The Dimmer curve is 0 which means any change in dimmer level is instantaneous.

Choice 2:- Dim 1. The dimmer curve has the shortest fade in and fade out time.

Choice 3:- Dim 2. The dimmer curve has the 2nd shortest fade in and fade out time.

Choice 4:- Dim 3. The dimmer curve has the 3rd shortest fade in and fade out time

Choice 5:- Dim 4. The dimmer curve has the longest fade in and the fade out time.

To access the DIM function go through the Root Menu until **DIM** is found. Press Enter and then use the ↑ or ↓ buttons to get to the DIM choice required.

5). **DV**

The **DV** setting allows the ability of the leds to not flicker when using video camera.

The choices are NTSC or PAL. NTSC is the USA system.

To set the **DV** setting, go through the Root Menu until **DV**. Press Enter and then use the ↑ or↓ buttons to get to either NTSC or PAL. Once chosen, press Enter to save the setting and the Menu to exit back to the Root Menu.

14. KEY

The Key function is an access password for the fixture. The **KEY** can be turned OFF or ON which then deactivates or activates the password.

To set the **KEY** go through the Root Menu until **KEY,** press Enter and use the ↑ or ↓ to set the **KEY** to either OFF or ON. If the **Key** is turned ON then a password is required to go into sensitive Menus and to change functions.

The password is ↑ ↓ ↑ ↓ (Up + Down + Up + Down)

15. Glass front plate.

Certain fixtures come with a glass plate. This glass plate fits onto the front of the leds. It slots in the gel frame holder and the clip latches the plate into position.

16. The Personalities of the UV Dazer.

Depending on the Personality chosen, the **Elektralite UV Dazer** can be 2, 3 or 4 channels.

Personalities:-

U = 1 channel the first one channel listed below)

U.D = 2 channels (the first two channels listed below)

U.S = 3 channels (the first three channels listed below). WS is the most common choice.

U.S Id = 4 channels (as listed below all 4 channels)

U

1	0-255	Dimmer

U.D

1	0-255	Dimmer
2	0-50	Linear dimmer speed（DIM=OFF）
	51-100	nonlinear speed1（DIM1）
	101-150	nonlinear speed 2（DIM2）
	151-200	nonlinear speed 3（DIM3）
	201-255	nonlinear speed 4（DIM4）

U.S

1	0-255	Dimmer
2	0-9	No Function
	10-49	Synchronized strobe slow
	50-99	Non synchronized strobe slow
	100-149	Random strobe slow
	150-199	Non synchronized fast strobe
	200-255	Synchronized fast strobe
3	0-50	Linear dimmer speed（DIM=OFF）
	51-100	nonlinear speed 1（DIM1）
	101-150	nonlinear speed 2（DIM2）
	151-200	nonlinear speed 3（DIM3）
	201-255	nonlinear speed 4（DIM4）

U.S. Id

1	0-255	Dimmer
2	0-9	No Function
	10-49	Synchronized strobe slow
	50-99	Non Synchronized strobe slow
	100-149	Random strobe slow
	150-199	Non Synchronized strobe fast
	200-255	Synchronized strobe fast
3	0-50	Linear dimmer speed（DIM=OFF）
	51-100	nonlinear speed 1（DIM1）
	101-150	nonlinear speed 2（DIM2）
	151-200	nonlinear speed 3（DIM3）
	201-255	nonlinear speed 4（DIM4）
4	0	All ID address work together
	1-255	Each dmx value is an ID address value. Each ID address is controlled individually at that DMX value

17. 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 **elektraLite UV Dazer**?

Clean the fan! That's really it!

Use a small vacuum cleaner and 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 fan keeps the LEDs 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 fan be cleaned? It depends on where the fixtures are; in a very dusty atmosphere once a week. So check the fan on a regular basis, it may not need cleaned every week but a quick "visual inspection" should be done.
The front plastic cover for the lenses should be cleaned so the light output is maintained. Use only a moist lint-free cloth. Never use alcohol or solvents to clean the fixture.

18. Technical Specification.

- Operating voltage 100 – 250v
- Frequency 50 – 60 Hertz
- 36 x 5 watt leds
- 200 Vl
- Fan cooled
- 305mm x 276mm x 230mm
- 12" x 10.9" x 9.1"
- 8.5 kgs
- 19 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.

ElektraLED has other great products that are manufactured under the elektraLite product line.

Go check out the website at www.myelektraLite.com

A preview of the products include:-

ElektraLite ML902

ElektraLite Stingray

ElektraLite DazerIP65 in white

ElektraLite SLA Retina