elektraLite LED eyeBall UV

USER MANUAL

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1. Unpacking

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

elektraLite UV wash fixture uses 18 high powered leds, run in a balanced arrangement giving incredible output. Please unpack the **elektraLite UV** carefully and check whether it was damaged in shipping. The following item should be in the box with the fixture:-

2 part yoke
2 knobs for yoke
1 DMX 5 pin cable
1 Turnaround 3 to 5 pin cable
1 Turnaround 5 to 3 pin cable
1 IEC power cable
1 IEC jumper cable (for daisy chaining the power between fixtures)

Please handle the fixture with care at all times. Do not drop. Do not hit the front lens assembly.

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. **elektraLite UV** 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, then it could void the warranty.

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

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

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

3. General Guidelines.

elektraLite UV is a lighting fixture for professional use on stages, in clubs, theatres, churches etc.
elektraLite UV should only be operated at between 120 to 240 volts and only indoors.
elektraLite UV should not be operated 24/7 (24 hours a day; 7 days a week). **elektraLite UV** needs operation breaks to ensure that it will work for a long time without problems. Please do not shake the **elektraLite UV** and avoid using brute force when installing or operating it.

Please read this below. It is important to understand and realize the following:-
The lens encapsulates each of the leds. This way the maximum output is attained. However this means that, if the fixture is dropped or the front lens assembly is struck, then it is possible for leds to be crushed. So please exercise care and attention. This is not a par64 that can be abused at will!

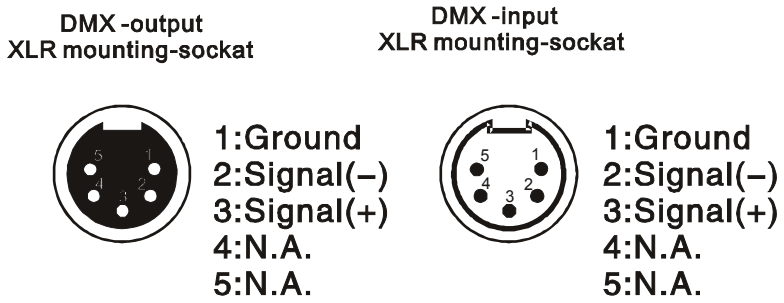
When choosing the location to install the **elektraLite UV**, please make sure that it is not exposed to extreme heat, moisture or dust and never install it outdoors. Make sure that the fixture has a good amount of free space around it for air flow. Do not install it in a confined space or have insulation around the fixture. The minimum distance between the **elektraLite UV** and the illuminated surface must be more than 3 feet.
Always mount the **elektraLite UV** with an appropriate safety cable.
Operate the **elektraLite UV** 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 will invalidate the warranty. There are absolutely no exceptions.**
If **elektraLite UV** is operated in any way different to the one described in this manual, **elektraLite UV** maybe damaged and the guarantee will be void.

4. Installation

Please ensure that the **elektraLite UV** 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** 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** 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.

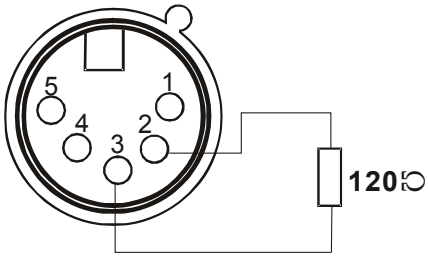
5. DMX-512 Control Connection

Connect an XLR cable to the female 5-pin XLR output of your **elektraLite CP16/24** or other DMX controller. The other end should be connected to the male 5-pin XLR input of the **elektraLite UV**. Then daisy-chain out of the first **elektraLite UV** into the next **elektraLite UV** 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** or other dmx device in the chain. Please see illustration below.



6. Menus in the fixture.

Root Menu	Sub Menu 1	Sub Menu 2
STAT (STATIC LOOK)	UV	000-255
	STROBE	000-255
AUTO (AUTOMATIC PROGRAMS)	EFFECT 1 (inbuilt program 1)	
	EFFECT 2 (inbuilt program 2)	
	EFFECT 3 (inbuilt program 3)	
RUN	DMX 512	
	SLAVE	
ADDRESS	ASSIGN DMX CHANNEL	001-512
	ASSIGN ID ADDRESS	001-255
PERS (PERSONALITY)	STAG(E) 1	
	STAG(E) 2	
	CHANNEL 1	
SETTINGS	DIMMER (FADE CURVE)	000(OFF) TO 004(LONGEST)
	RESET	PASSWORD REQUIRED
FANS	OFF	
	AUTO	
	LOW	
	NORMAL	
	HIGH	
KEY	OFF	
	ON	

7. Static Look.

The **elektraLite UV** can be set to a single static look quickly.
Use the Menu button to get to STAT.
Press Enter.
The next screen will read Warm 000. This is addressing the UV leds.
Use the ↑ or ↓ to increase brightness of the cool leds.
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 static look.
Do not press MENU as this will get you out to the Root directory and out of the static look.

8. Auto Programs.

In Auto Program there are three programs (or shows) in the **elektraLite UV** are Effect 1, Effect 2 and Effect 3. Chose the one best suit for the venue.
To run a color or program in Auto mode use the Menu button to get to AUTO.
Press ENTER.
Use the ↑ or ↓ key to get to the program. Press Enter.
The program will start running.

9. Run.

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. Address (For DMX & ID)

DMX 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 and the display will read the current dmx channel.
The display will read for example **DMX:**

001

This means the fixture's current address is **1**
To change it, use the ↑ or ↓ buttons to get to the correct address. Press Enter to save the address.
Now immediately Enter is pressed, the ID address for the fixture is shown. See below for ID address information; otherwise press Enter to exit out and back to the Root Menu again.

ID Address
An **elektraLite UV** 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 001 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 a **Personality** that uses the ID. For example STAG
This allows you to access the ID address system on channel 4.
Set the DMX address to 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.
ID address 001 is the default and in ID address 001 all fixtures will be under control.

11. Personalities.

There are three 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 7.
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. Settings. **(Set has several Sub Menus which allow the following functions to be used).**

1). **Dimmer**
The Dimmer 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 **DIMMER** is found. Press Enter and then use the ↑ or ↓ buttons to get to the DIM choice required.

2). **Reset**
This resets all values to their default.
Go through the Root Menu until **Settings** is displayed. Press Enter and then use the ↑ or ↓ buttons to get to RESET. Press Enter. The display will have the cursor flashing across the bottom. The password needs to be entered. The password is the following sequence using the ↑ and ↓ buttons.
↑ ↓ ↑ ↓ ↑ ↓ then press Enter once complete. The display will read OK followed by a return to the RESET 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 once more. Please note the Reset also takes the dmx address back to 001.

13. Fans

There are several different control options for the fans.
Auto:- The fans come on when the temperature exceeds its pre-set value.
The fan turns off when the temperature falls below its pre-set value.
High:- The fans are constantly on at a high rotational speed.
Normal:- The fans are constantly on at their normal rotational speed.
Low:- The fans are constantly on at a lower than normal level. If the leds exceed their operational pre-set temperature level, then the output is reduced as the fans are "locked" at lower rotational speed.
Off:- The fans are sent to be OFF. . If the leds exceed their operational pre-set temperature level, then the output is reduced as the fans are "locked" OFF.

14. Key Lock

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 LOCK** on, go through the Root Menu until **KEY LOCK** is found**.** Press Enter and use the ↑ or ↓ to set the **KEY LOCK** to either OFF or ON. If the **Key LOCK** is turned ON then a password is required to go into sensitive Menus and to change functions.
The password is ↑ ↓ ↑ ↓ ↑ ↓ (Up + Down + Up + Down + Up + Down) Enter.

15. DMX Channel Assignments for Personalities.

STAG1：

1	0-255	UV output…dimming
2	0-50	Linear dimmer speed（DIM=0）
	51-100	Non-linear dimmer speed 1（DIM=1）
	101-150	Non-linear dimmer speed 2（DIM=2）
	151-200	Non-linear dimmer speed 3（DIM=3）
	201-255	Non-linear dimmer speed 4（DIM=4）

STAG2:

CH	DMX data	Function
1	0-255	UV output…..dimming
2	0-9	STROBE NO FUNCTION
	10-49	Synchronous slow flash
	50-99	Asynchronous slow flash
	100-149	Random slow flash
	150-199	Asynchronous fast flash
	200-255	Synchronous fast flash
3	0-10	NO FUNCTION
	11-20	FAN OFF
	21-25	FAN LOW
	26-30	FAN HIGH
	31-40	FAN AUTO
	41-100	NO FUNCTION
	101-150	EFFECT 1
	151-200	EFFECT 2
	201-255	EFFECT 3
4	0	All ID operating together
	1-255	Only the ID number chosen will be controlled
5	0-50	Linear dimmer speed（DIM=O）
	51-100	Nonlinear dimmer speed 1（DIM=1）
	101-150	Nonlinear dimmer speed 2（DIM=2）
	151-200	Nonlinear dimmer speed 3（DIM=3）
	201-255	Nonlinear dimmer speed 4（DIM=4）

CHANNEL 1：

1	0-255	UV output…dimming

16. 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 fan! That's really it!

Turn off the **elektraLite UV.**
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 LEDs cool and keep the electronics cool too.
Without the fans 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 fan on a regular basis, it may not need cleaned every week but a quick "visual inspection" should be done.

The clear front plastic cover for the lenses should be cleaned so the light output is maintained. With the **elektraLite UV** turned off, use only a moist lint-free cloth, and clean the plastic cover. 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.

17. Technical Specification.

- Operating voltage 100 – 250v
- Frequency 50 – 60 Hertz
- 18 leds
- 80 Vl
- Fan cooled
- 162.5mm x 162.5mm x 218.5mm
- 6.5" x 6.5" x 8.6"
- 2.1 kgs
- 4.6 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.

ELE725

eyeBall UV

(18) 3W Ultraviolet Blacklight (385nm) LED

FEATURES

- eighteen powerful 5-watt LED's generating visible spectrum 385nm ultraviolet ('black') light
- compact design fits perfectly in 12" box truss
- flicker-free on camera operation
- strong double yoke allows for floor mount or hanging, with low-profile adjustment handles for a slim, tight contour
- variable adjustable speed strobe effect, from 0.3 to 25 FPS
- variable, adjustable fans can be set to run automatically, manually, turned off, or controlled via DMX
- compact, lightweight design ideal for a variety of locations, including small spaces and portable applications
- up to eight fixtures can be connected on one 20A circuit, and can be run in stand-alone or master/slave configuration, all with or without a control source, for fast, effective, and efficient operation

GENERAL INFORMATION

The elektraLite **eyeBall UV** is uniquely designed to provide high output of quality ultraviolet light in a compact design.

At the heart of the elektraLite eyeBall UV are eighteen 5-watt LED's operating at a wavelength of 385nm. Impressive light output delivers incredible fluorescence at distances of more than 75 feet. Able to fit in tight spaces, and designed with a low profile for low ceiling applications, the **eyeBall UV** is ideally suited for integration into existing spaces and minimal space requirements for new projects. In addition to its small size, at less than five pounds the **eyeBall UV** is lightweight, allowing for more fixtures to be hung in a given space.

Specifically designed for themed environments, the elektraLite **eyeBall UV** is ideal for museum exhibits, concerts, special events, dark rides, attractions, haunted houses, live entertainment, geology experiences, art galleries and exhibitions, and period/themed environments.

A user-friendly onboard control interface allows for multiple control options in addition to DMX, including manual, strobe, and console-free master/slave operation. Plug-and-play functionality is built right in!

The **eyeBall UV** has both power in and thru for easy "daisy chaining", and includes an interconnect jumper cable. The DMX connectors (both in and thru) are 5-pin XLR, however 3>5 pin and 5>3 pin turnarounds are provided for maximum flexibility.

ORDERING INFORMATION

ELE725	UV eyeBall LED with Lens Set (includes 15°, 25°, 40°, 60° optics)
ELE735	eyeBall Four-Leaf Barn Door *(black)*
-W	White Finish *(add to end of fixture part number)*

ELE725

eyeBall UV

(18) 3W Ultraviolet Blacklight (385nm) LED

SPECIFICATIONS

Power Consumption	- 110 watts (0.9A)
Electrical	- multi-voltage; AC 100-240V – 50/60Hz - IEC power (in and thru) connectors
Housing	- high temperature black polycarbonate
Materials	- corrosion resistant hardware
Yoke	- rigid flat steel
Light Engine	- eighteen 5-watt LED emitters
Refresh Rate	- >400Hz
CRI	- N/A
Optics / Lensing(s)	- Diffraction Lensing
Control	- DMX-512A (in and thru) via 5-pin XLR - 3>5 & 5>3 pin turnarounds included

DMX PROFILE

Depending on personality chosen, the **eyeBall UV** can be set for operation from 2 to 8 channels of DMX. Consult the User Manual for further details. The following menu is for use when Personality is set to STAG2 mode.

CH	ACTION DESCRIPTION	VALUE
1	Grand Master for UV	0-255
2	Strobe – no function	0-9
	Strobe – synchronous slow flash	10-49
	Strobe - asynchronous slow flash	50-99
	Strobe – random slow flash	100-149
	Strobe – asynchronous fast flash	15-199
	Strobe – synchronous fast flash	200-255
3	Fan – no function	0-10
	Fan – off	11-20
	Fan – low	21-25
	Fan – high	26-30
	Fan – auto	31-40
	No Function	41-100
	Effect 1	101-150
	Effect 2	151-200
	Effect 3	201-255
4	All ID Operating Together	0
	Only the ID Number Chosen is Controlled	1-255
5	Linear Dimmer Speed (dIM=0)	0-50
	Nonlinear Dimmer Speed 1 (dIM=1)	51-100
	Nonlinear Dimmer Speed 2 (dIM=2)	101-150
	Nonlinear Dimmer Speed 3 (dIM=3)	155-200
	Nonlinear Dimmer Speed 4 (dIM=4)	201-255

* = consult manual for full DMX Profile details

ACCESSORIES

Accessories Included with each **eyeBall UV** are as follows:

(1) double-yoke

(1) 24” IEC power cable with Edison connector

(1) 108” IEC extension cable

(1) 108” 5-pin DMX extension cable

(1) 3>5 pin DMX turnaround

(1) 5>3 pin DMX turnaround

PHOTOMETRICS

Photometric data was taken with all channels at full, and reflects the output of the fixture with the lens installed as noted. Comparisons between fixtures should only be made with photometric data that incorporates the lensing system to be used.

Lens	Beam Angle	Field Angle	Beam Size 10’ Throw	Beam Size 20’ Throw	Beam Size 30’ Throw
10°	10°	17°	5’-4”	11’-0”	19’-2”
25°	23°	33°	8’-9”	15’-9”	23’-4”
40°	38°	47°	11’-6”	20’-1”	28’-1”
60°	54°	72°	15’-8”	24’-5”	31’-3”

When comparing UV Lights, it is important that evaluation be based upon advertised wavelength. The elektraLite **eyeBall UV** utilizes specifically-tuned 385nm wavelength LED’s.

DIMENSIONS CHART

Physical Dimensions			Shipping Dimensions		
Length	Width	Height	Length	Width	Height
8.6”	6.5”	6.5”	15”	9”	9”

WEIGHTS CHART

Weight		Shipping Weight	
lbs	kgs	lbs	kgs
4.6	2.0	8.0	3.6