



ElektraLite LED eyeBall Warm White USER MANUAL



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1. Unpacking

Thank you for choosing the **elektraLite WW** 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. For the rest of the manual we are going to refer to the fixture as **elektraLite WW**.

The **elektraLite WW** wash fixture uses 18 high powered leds, run in a balanced arrangement giving incredible output. Please unpack the **elektraLite WW** 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 WW** 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 WW, then it could void the warranty.

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

Always disconnect the **ElektraLite WW** from the power source, when the fixture is not in use or before cleaning it. Only unplug **ElektraLite WW** 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 WW** away from children and the general public. Please be intelligent and use common sense when operating the **ElektraLite W W**.

3. General Guidelines.

ElektraLite WW is a lighting fixture for professional use on stages, in clubs, theatres, churches etc.

ElektraLite WW should only be operated at between 120 to 240 volts and only indoors.

ElektraLite WW should not be operated 24/7 (24 hours a day; 7 days a week). **ElektraLite WW** needs operation breaks to ensure that it will work for a long time without problems. Please do not shake the **ElektraLite WW** 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 WW**, 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 WW** and the illuminated surface must be more than 3 feet.

Always mount the **ElektraLite WW** with an appropriate safety cable.

Operate the **ElektraLite WW** only when you are familiar with the features on the fixture. Do not permit operation by persons not qualified.

All modifications to the **ElektraLite WW** will invalidate the warranty. There are absolutely no exceptions.

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

4. Installation

Please ensure that the **ElektraLite WW** 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 WW** then do **NOT** hang it.

Do not clamp the safety cable to the U bracket or clamp. That is not a secondary safety point.

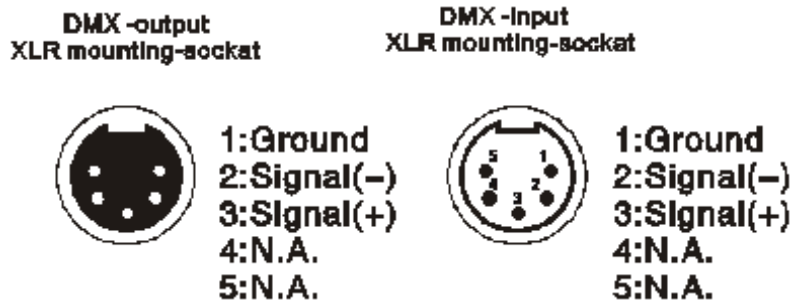
A secondary safety point is any point that will adequately hold the **ElektraLite WW** if the "C" clamp or half cheeseboro fails. Then the safety cable would be the backup and stop the fixture from falling to the ground.

So do **NOT** fix the safety cable to the same place that the "C" clamp is attached.

5. DMX-512 Control Connection

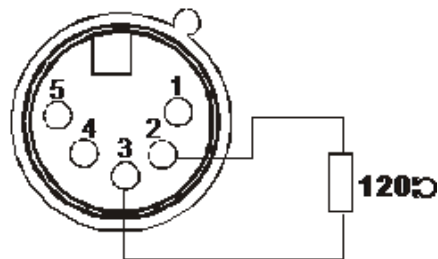
Connect an XLR cable to the female 5-pin XLR output of your **ElektraLite CP16/24** or other DMX controller. The other end should be connected to the male 5-pin XLR input of the **ElektraLite WW**. Then daisy-chain out of the first **ElektraLite WW** into the next **ElektraLite WW** or other dmX device. 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 WW** 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 LOCK)	WW	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 WW** 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 WW 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 create 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 WW** 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 immediatly 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 WW** 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	WW output...dimming
	0-50	Linear dimmer speed (DIM=0)
2	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	WW output.....dimming
	0-9	STROBE
		NO FUNCTION
2	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
	0-10	NO FUNCTION
	11-20	FAN OFF
3	21-25	FAN LOW
	26-30	FAN HIGH
	31-40	FAN AUTO
	41-100	NO FUNCTION
	101-150 151-200 201-255	EFFECT 1 EFFECT 2 EFFECT 3
4	0	All ID operating together
	1-255	Only the ID number chosen will be controlled
	0-50	Linear dimmer speed (DIM=0)
5	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	WW output...dimming
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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 WW**.

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

Do not use a can of co². 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 WW** 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 VI
- 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.

18. 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 ML602



ElektraLite LightStream



ElektraLite DazerIP65 in white