

elektraLite

ElektraLite LED

Ocular RGBW

USER MANUAL



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1. Unpacking

Thank you for choosing the **ElektraLite Ocular RGBW** 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 Ocular RGBW wash fixture, utilizes a 100 watt single source COB led giving incredible output. Please unpack the **ElektraLite Ocular RGBW** carefully and check whether it was damaged in shipping.

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

- 2 part yoke
- 1 Powercon power cable
- 1 safety cable

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 Ocular RGBW 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 Ocular RGBW , then it could void the warranty.

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

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

3. General Guidelines.

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

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

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

Please read this below. It is important to understand and realize the following:-

When choosing the location to install the **ElektraLite Ocular RGBW**, 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 Ocular RGBW** and the illuminated surface must be more than 3 feet.

Always mount the **ElektraLite Ocular RGBW** with an appropriate safety cable.

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

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

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

4. Installation.

Please ensure that the **ElektraLite Ocular RGBW** 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.

If you are not qualified or have any doubts about hanging the **ElektraLite Ocular RGBW** then do **NOT** hang it.

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

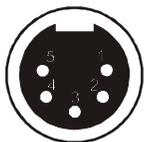
A secondary safety point is any point that will adequately hold the **ElektraLite Ocular RGBW** if the "C" clamp or half cheeseboro fails. Then the safety cable would be the backup and stop the fixture from falling to the ground. So do **NOT** fix the safety cable to the same place that the "C" clamp is attached.

5. DMX-512 Control Connection.

Connect an XLR cable to the female 5-pin XLR output of a DMX controller. The other end should be connected to the male 5-pin XLR input of the **ElektraLite Ocular RGBW**. Then daisy-chain out of the first **ElektraLite Ocular RGBW** into the next **ElektraLite Ocular RGBW** 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 -output
XLR mounting-socket

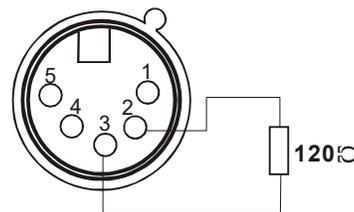


1:Ground
2:Signal(-)
3:Signal(+)
4:N.A.
5:N.A.

DMX -input
XLR mounting-socket



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 last **ElektraLite Ocular RGBW** or other dmx device in the chain. Please see illustration below.

6. Menus in the fixture.

Display Root Menu	Sub-menu	Sub-menu	Short Description	Explanation
STAT	R.(0-255)			Setting a Static output for the light. If there is no dmx input the fixture will default to the static output.
	G.(0-255)			
	B.(0-255)			
	W. (0-255)			
	S.(0-20)		Strobe. 0-013 is off. No strobe. 014-255 is strobe effect. 255 is max strobe at 20Hz.	
AUTO	AT 01	SP 0-99	Speed from Slow to Fast	SP is the time taken to go from one "look/scene" to another "look/scene".
	AT 02	SP 0-99	Speed from Slow to Fast	
	And so on until	SP 0-99	Speed from Slow to Fast	
	AT10	SP 0-99	Speed from Slow to Fast	
DMX	d.(1-512)		DMX Address set	Do not forget to press enter to save the dmx address value
PRES	STAG(E)		11 channel mode	Choosing the correct personality/profile.
	ARC.1		3 channel mode	
	AR1.D		4 channel mode	
	AR2.D		5 channel mode	
	AR2.S		6 channel mode	
	HSV		3 channel mode	
ID	Id.(01-66)		ID address	
SET	REST	↑↓↑	Reset	
	IDSW	ON	ID Function on	
		OFF	ID Function off	
	BSW	ON	White balance on	
		OFF	White balance off	
	CURE	CUR0	Dim Curve linear	
		CUR1	Dim Curve 1	
		CUR2	Dim Curve 2	
		CUR3	Dim Curve 3	
	DIM	OFF	No delay in dimming (0)	
		DIM1	Slight fade time in dimming (1)	
		DIM2	Increased fade time in dimming (2)	
		DIM3	Further increase in fade time (3)	
		DIM4	Maximum fade time in dimming (4)	
	POWS	ON	Power protection on	
OFF		Power protection off		
KEY	ON		Password Protection ↑↓↑ Enter	
	OFF			
TEMP	-25°C-100°C		Display of running temp	
PWMF	1.2-24K		Refresh rate adjustment	
CAL 1	RED	0-255	User adjustable so that the maximum output at 255 for the three colors together will be at the levels set in CAL 1	
	GREEN	0-255		
	BLUE	0-255		

7. Static Look.

The **ElektraLite Ocular RGBW** can be set to a single static look. Use the Menu button to get to Static. Press ENTER. Adjust the levels for each color to that desired and press ENTER to save that level for each color.

8. Auto Programs.

The **ElektraLite Ocular RGBW** can be set into 1 of 10 auto programs. They are labelled Auto 1 through 10. Use the Menu button to get to Auto. To run the program, press Enter. If the program running is the choice then nothing further needs to be done. If another Auto program is required, use the ↑ or ↓ key to choose the program required. One further change can be made to the Auto program and that is the speed at which the program moves. A second press of the Enter button will reveal a new screen. An example of this for Auto Program 2 would be:-

AUTO-02
SP: 01

Use the ↑ or ↓ key to increase or decrease the speed. Once the right speed is chosen press ENTER to save.

9. DMX.

This is for setting up the DMX address for this particular fixture. Using the Menu button, press until the display reads DMX. Press Enter and by using the Up and Down button move to the address value that will match with that designated on the controller used. Once the value is assigned then press enter to save the value.

10. PERS (Profiles/personalities).

The **Ocular** has a variety of different ways the features of the fixture can be used. Each different way the feature can be used is generally referred to as a “profile” or “personality” of the fixture. The default profile/personality is STAG(E) and uses 11 channels of DMX while Arc.1 only uses 3 channels, for example. Using the Menu button, press until the display reads PERS press ENTER then using the Up and/or Down button navigate to the profile required. Remember to Press ENTER to save that profile.

11. ID address.

An **Elektralite Ocular** can be addressed (meaning controlled) through the dmx or the Ocular can be further controlled using its own unique ID address.

There are a total of 66 different ID addresses from 1 to 66.

So how does it work?

To set up the ID address for a fixture, use the Menu button in the root menu and go to SET.

Press ENTER and go to **IDSW** because one has to **SW** with the ID address ON before set up the address number. Once turned on go back out of the Menu and round to ID.

Press Enter and then using the ↑ or ↓ buttons, to select the ID address. (Let's say ID address 21).

Press Enter to save the address.

Now, Important :- For the ID address to work, STAG(E) must have been previously chosen as the personality/profile! No other personality/profile will work!.

Set the DMX address to 001 for the fixture. Now if ID address 21 is chosen then go to channel 11 (the ID address number for STAG(E) personality/profile on the lighting board) and set the level at 210 dmx value. This will now allow the fixture to be controlled. So this means if you had multiple fixtures with different ID addresses you could independently control them while having them all on DMX address 001. The advantage of this is really only realized when you have a small controller with limited dmx addresses available.

If the ID address is not required make sure ch11 is at 000-009 and IDSW is OFF.

12. SET.

This setting in the root menu is explained in section 6 but the **DIM** function requires a little more explanation.

The Dimmer function allows different Dimmer fade times to be chosen. There are 5 choices.

Choice 1:- this is Dim off, meaning no fade time changes in dimmer level is instantaneous.

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

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

Choice 4:- Dim 3 has the 3rd shortest fade in and fade out time

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

Now **DIM** differs from Dim Curve which sets up different type of dimming from Linear (straight line) to Logarithmic.

BSW. This **Sw**itches on or off the white color balance function. If the **BSW** is on, then any adjustment done in the root menu **CAL1** will be in effect.

13. 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 + ENTER).

14. TEMP

The temperature of the fixture is displayed.

15. PWMF.

This function allows the frequency of the power to be altered. It is sometimes necessary to do this because of video synchronization.

16. CAL 1.

The “white color” using the RGB components can be set by the user in CAL 1 function.

17. Zoom.



18. Personality (Profile) tables.

ARC.1

1	0-255	RED
2	0-255	GREEN
3	0-255	BLUE

AR1.D

1	0-255	MASTER DIMMER
2	0-255	RED
3	0-255	GREEN
4	0-255	BLUE

ARC.2

1	0-255	RED
2	0-255	GREEN
3	0-255	BLUE
4	0-255	WHITE

AR2.D

1	0-255	MASTER DIMMER
2	0-255	RED
3	0-255	GREEN
4	0-255	BLUE
5	0-255	WHITE

AR2.S

1	0-255	MASTER DIMMER
2	0-255	RED
3	0-255	GREEN
4	0-255	BLUE
5	0-255	WHITE
6	0-255	STROBE

HSV

1	0-255	HUE (0-100%)
2	0-255	SATURATION
3	0-255	V

18. Personality (Profile) Tables cont : STAG(E)

1	Grand Master for RGBW	0-255
2	RED Leds	0-255
3	GREEN Leds	0-255
4	Blue Leds	0-255
5	White Leds	0-255
6	No effect	0-010
	Snap to Red 255	011
	Crossfade Red 255→000 Green 000→255 Blue 0%	012-050
	Crossfade Red 000 Green 255→000 Blue 000→255	051-090
	Crossfade Red 000→255 Green 000 Blue 000	091-110
	Crossfade Red 255 Green 000 Blue 000→255	111-130
	Crossfade Red 255 Green 000→255 Blue 000→255	131-150
	Crossfade Red 255→000 Green 255→000 Blue 255	151-170
	Snap to Red 255 Green 255 Blue 255 White 255	171-200
	Snap to White color 1	201-205
	Snap to White color 2	206-210
	Snap to White color 3	211-215
	Snap to White color 4	216-220
	Snap to White color 5	221-225
	Snap to White color 6	226-230
Snap to White color 7	231-235	
Snap to White color 8	236-240	
Snap to White color 9	241-245	
Snap to White color 10	246-250	
Snap to White color 11	251-255	
7	Strobe - No function	000-013
	Strobe 1Hz – 20Hz	014-255
8	No effect/function	000-020
	Automatic Program 1 (Auto 1)	021-030
	Automatic Program 2 (Auto 2)	031-040
	Automatic Program 3 (Auto 3)	041-050
	Automatic Program 4 (Auto 4)	051-060
	Automatic Program 5 (Auto 5)	061-070
	Automatic Program 6 (Auto 6)	071-080
	Automatic Program 7 (Auto 7)	081-090
	Automatic Program 8 (Auto 8)	091-100
	Automatic Program 9 (Auto 9)	101-110
	Automatic Program 10 (Auto10)	111-120
	Sound Activated auto program	121-255
9	Speed control for the Automatic Programs (Slow to Fast)	000-255
10	Check under the Menus SET→→DIM. Whatever DIM is set to will be what the dimming does.	000-005
	Dim 0 (any dimming fade time is turned off)	006-055
	Dim 01 (dimmer curve 1. Shortest fade time)	056-105
	Dim 02 (dimmer curve 2. 2 nd Shortest fade time)	106-155
	Dim 03 (dimmer curve 3. 3 rd Shortest fade time)	156-205
	Dim 04 (dimmer curve 4. Longest fade time)	206-255

18. Personality (Profile) Tables cont : STAG(E)

11	All ID Addresses	000-009
	ID address 1	010-019
	ID address 2	020-029
	ID address 3	030-039
	ID address 4	040-049
	And so on until	
	ID address 20	200-209
	ID address 21	210
	ID address 22	211
	And so on until	
	ID address 66	255

19. 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 Ocular RGBW** .

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 LED 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 Ocular RGBW** 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.

20. Technical Specification.

- 100w cob led.
- available as CW, WW & RGBWA.
- Manual zoom
- Powercon in and out
- 2 pc yoke
- Near silent fan .
- 5pin XLR in and thru.
- Minimum beam angle 24°
- Minimum field angle 31°
- Maximum beam angle 51°
- Maximum field angle 64°
- Length of body 9 3/8"
- Length of body + yoke 13 1/2"
- Width of body incl yoke handles 10"
- Height of body 7 1/2"
- Front lens diameter 4 3/8"
- Operating voltage 100 – 250v
- Frequency 50 – 60 Hertz

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 Aero



With a MAP of just \$2500, the Aero is the ultimate in value for the money! Nothing comes near it for the features inside.

- Pan.
- Tilt.
- Cyan.
- Magenta.
- Yellow.
- CTO.
- Color Wheel 1 with reds and amber colors.
- Color Wheel 2 with blues (including deep congo blue).
- Color Wheel 3 with greens and yellows.
- 9 interchangeable Static Gobos.
- 7 interchangeable Rotating Gobos.
- Indexing for the rotating gobos.
- Prism.
- Rotation of the prism.
- Frost.
- Iris.
- Zoom.
- Fine Zoom.
- Focus.
- Fine Focus.
- Changeable Dimmer attributes (Linear, square, inverse square & S-curve).
- Strobe.
- Dimmer control.
- Fine Dimmer control.
- Reset.
- Inbuilt Wireless.
- Pan & Tilt Locks
- Large display with manual control.
- 3 and 5 pin XLR for DMX input and thru.
- Powercon in and thru.

Elektrabar with glare shield for perfect cuts



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

The Paint Can Pendant



The Paint Can Pendant The ideal pendant light made specifically for the installation market. It can be simply installed by an electrical contractor. 200 watts of power. Utilizing a COB led with a CRI of 95. Available in stock Warm White or RGBW , where W is 3200K. Other COB leds are available upon request such as variable white and cool white. In built electronic Zoom from 10 to 60 degrees. Control via DMX or Static (no controller needed). Available as either a 100-240 volt model or as a 277 volt model.

Elektralite Stingray Ellipsoidal



There are many different models of the Elektralite Stingray. It can be a 300 watt LED ellipsoidal with the output better than a conventional 750 watt fixture. It can be a 250w RGBW with W = 3200K. There is a 600w tunable white model and a 350w RGBW and 300w RGBAL. Lens available are 19°, 26°, 36°, 50°. Special Lens also available : 5° and 10°. The Stingray will accept other manufacturer's lens as well as Elektralite's own lenses.

Stingray Mini Range



From 20watt to 60watt COB leds we have the perfect Mini ellipsoidal or fresne.
Please check out our website at www.myelektraLite.com