



ElektraLite LED eyeBall RGBWA (5-in-1) USER MANUAL (Version3.0)



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1. Unpacking

Thank you for choosing the **ElektraLite eyeBall RGBWA (5-in-1)** 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 eyeBall (5-in-1) wash fixture uses 7 high powered 12 watt quad leds, giving incredible output. Please unpack the **ElektraLite eyeBall (5-in-1)** 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 eyeBall (5-in-1)** 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 eyeBall (5-in-1), then it could void the warranty.

During shipping, the **ElektraLite eyeBall (5-in-1)** may have been exposed to high temperature changes or humidity changes. So, as a precaution, do not switch the **ElektraLite eyeBall (5-in-1)** on immediately. Condensation can damage the **ElektraLite eyeBall (5-in-1)** so leave the **ElektraLite eyeBall (5-in-1)** switched off until it has reached room temperature. The **ElektraLite eyeBall (5-in-1)** 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 eyeBall (5-in-1)** 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 eyeBall (5-in-1)** is there for safety.

Always disconnect the **ElektraLite eyeBall (5-in-1)** from the power source, when the fixture is not in use or before cleaning it. Only unplug **ElektraLite eyeBall (5-in-1)** 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 eyeBall (5-in-1)** away from children and the general public. Please be intelligent and use common sense when operating the **ElektraLite eyeBall (5-in-1)**.

3. General Guidelines.

ElektraLite eyeBall (5-in-1) is a lighting fixture for professional use on stages, in clubs, theatres, churches etc.

ElektraLite eyeBall (5-in-1) should only be operated at between 120 to 240 volts and only indoors.

ElektraLite eyeBall (5-in-1) should not be operated 24/7 (24 hours a day; 7 days a week).

ElektraLite eyeBall (5-in-1) needs operation breaks to ensure that it will work for a long time without problems. Please do not shake the **ElektraLite eyeBall (5-in-1)** 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 eyeBall (5-in-1)**, 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 eyeBall (5-in-1)** and the illuminated surface must be more than 3 feet.

Always mount the **ElektraLite eyeBall (5-in-1)** with an appropriate safety cable.

Operate the **ElektraLite eyeBall (5-in-1)** only when you are familiar with the features on the fixture.

Do not permit operation by persons not qualified.

All modifications to the **ElektraLite eyeBall (5-in-1)** will invalidate the warranty. There are **absolutely no exceptions.**

If **ElektraLite eyeBall (5-in-1)** is operated in any way different to the one described in this manual, **ElektraLite eyeBall (5-in-1)** maybe damaged and the guarantee will be void.

4. Installation.

Please ensure that the **ElektraLite eyeBall (5-in-1)** 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 eyeBall (5-in-1)** then do **NOT** hang it.

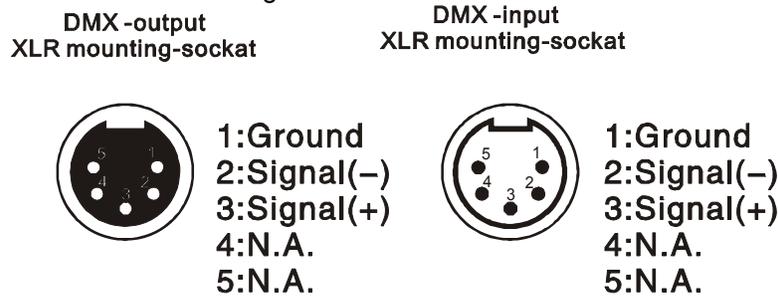
Do not clamp the safety cable to the U bracket or clamp. That is not a secondary safety point.

A secondary safety point is any point that will adequately hold the **ElektraLite eyeBall (5-in-1)** 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.

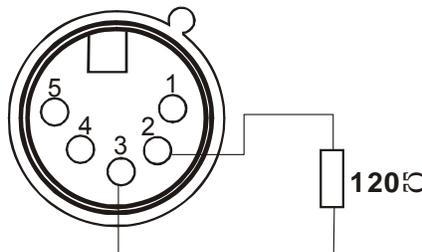
Connect an XLR cable to the female 5-pin XLR output of your **ElektraLite CP16/24** or other DMX controller. The other end should be connected to the male 5-pin XLR input of the **ElektraLite eyeBall (5-in-1)**. Then daisy-chain out of the first **ElektraLite eyeBall (5-in-1)** into the next **ElektraLite eyeBall (5-in-1)** 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 eyeBall (5-in-1)** or other dmX device in the chain. Please see illustration below.



The **eyeBall** also has 3-pin XLRs for the DMX. Pins 1, 2 and 3 correspond to 5-pin XLR. However the physical position of the pins is different. So please study the 3-pin XLR carefully before putting a resistor across pins 2 and 3.

6. Menus in the fixture.

Root Menu	Sub Menu 1	Sub Menu 2
Auto (automatic programs)	Auto 0	SP(speed) 00-99
	Auto 1	SP (speed) 00-99
	Auto 2	SP (speed) 00-99
	Auto 3	SP (speed) 00-99
	Auto 4	SP (speed) 00-99
STATIC	Fix C	Variety of Fixed Colors
	Manu C	Manually set each led color
DIM	DIM OFF	
	DIM 1	
	DIM 2	
	DIM 3	
	DIM 4	
BACKLITE	OFF	
	ON	
INFO	Auto Test	
	Fix hours	
	Version	
	Temp	
ADDRESS	ASSIGN DMX CHANNEL	001-512
PERSONALITIES (also known as Profiles)	STAG(E)	
	ARC1	
	AR1.D	
	ARC2	
	AR2.D	
	AR2.S	
	ARC3	
	AR3.D	
	AR3.S	
M&S Md	MASTER	
	SLAVE	
FANS	HIGH	
	MID (MEDIUM)	
	LOW	
WHITE CALIBRATION	RED	000-255
	GREEN	000-255
	BLUE	000-255
	WHITE	000-255
	AMBER	000-255
DEFAULT	OFF	
	ON	

7. Auto Programs.

The **ElektraLite eyeBall (5-in-1)** can be set into one of 5 auto programs.

They are labelled Auto 0 through 4.

Use the Menu button to get to Auto. The second line of text will display the current Auto program loaded into the RAM but not running. To run the program, press Enter. The Auto program number will be flashing. If the program running is the choice then nothing else needs to be done. If another Auto program is required, use the ↑ or ↓ key to choose the program. 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

SP (speed) will be flashing. Use the ↑ or ↓ key to increase or decrease the speed. Once the right speed is chosen no further button needs pushing.

If a dmx input is plugged in and is active (in other words the dmx controller is turned on), then the Auto program is "overruled" by the DMX signal. The moment the dmx signal is removed or turned off, the Auto program returns.

8. Static Look.

The **ElektraLite eyeBall (5-in-1)** can be set to a single static look. Use the Menu button to get to Static. On the second line of text, it will read

either <Manu C> or <Fix C>.

<Manu C> is Manual Control of all the 5 colors to any level of output required.

<Fix C> is Fixed Colors which are already preprogrammed into the eyeball.

<Manu C>

If the screen reads Static <Fix C> but <Manu C> is required then press Enter so the words <Fix C> flashes. Then press ↑. You will now have the <Manu C> option flashing. If you now press Enter again the screen will read

Manual C

R = 255

R will be flashing. If you wish to change the output of Red (R), then press enter.

The R will stop flashing and now 255 will be flashing. Using the ↑ or ↓ increase or decrease the value of Red. If the next color requires a change in output press the Enter button again. It will change back to R flashing and then use the ↑ or ↓ to move to the next color.

Once the last color adjustment is made, the fixture can be left in this mode running the static look. If a dmx input is plugged in and is active (in other words the dmx controller is turned on), then the static look is "overruled" by the DMX signal. The moment the dmx signal is removed or turned off, the static look returns.

(Sidebar:- Setting up the static look to have all led colors at full, is a good as an emergency light setting. This way when the DMX controller is turned off in an emergency the lights come to full on).

<Fix C>

With Static <Fix C> displayed, press Enter. <Fix C> will flash press enter. The display will now read

<Fix C>

<RGBWA_>

If the ↑ or ↓ keys are used, choices of different colors are displayed. Once the right color combination is found stop pressing the ↑ or ↓ key. The color is fixed. Once again if a DMX signal is detected the static look is overruled.

9. DIM

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, use the menu button to get to Dim Mode <_____>. Press Enter and then use the ↑ or ↓ buttons to choose the **DIM** curve. Choices are <OFF>, <DIM1>, <DIM2>, <DIM3> and <DIM4>. There is no need to press Enter upon completion of choice.

Please note the **DIM** function under the menu in the fixture does not work when one of the personalities chosen has the **DIM** function included. The lighting controller will now control the dimmer curve.

10. Backlite.

The display screen by default turns off after 30 seconds. The display screen can be on all the time if required. This is done by pressing the Menu button until Backlite is shown. Press Enter and then use the ↑ or ↓ buttons to turn the display ON or OFF.

11. Info.

Info has four Sub Menus.

- Auto Test.
- Fix Hours.
- Version.
- Temp.

Auto Test is a test of all the features in the **eyeBall**.

Fix Hours displays the current amount of hours the fixture has been running.

Version displays the current version of software.

Temp. displays the current operating temperature of the fixture.

12. Address.

Address refers to the current DMX address. Using the Menu button, press until the display reads

Address

<001> (this can be any value up to 512).

Press Enter, the <001> will flash. Now use the ↑ or ↓ buttons to change the address. Once complete there is no need to press Enter. 10 seconds after completion, the display will read the current personality (profile) chosen and the DMX address chosen.

DMX STAG

<001>

13. Personalities. (also known as Profiles).

Using the Menu button, press until the display reads Channel. Underneath this text could be any of the following personalities <STAG>, <ARC1>, <AR1.D>, <ARC2>, <AR2.D>, <AR2.S>, <ARC3>, <AR3.D>, <AR3.S>, HSV. To change a personality, use the ↑ or ↓ buttons. A list of Personalities can be found later in this manual.

14. M&S Md.

If DMX is not used then one fixture can be designated the Master and all other fixtures (if linked via dmx cable or wireless system) can be designated Slave. Using the Menu button, press until the display reads

M&S Md

<Master>

Press Enter and then using the ↑ or ↓ buttons, change to <Slave>.

15. Fan.

Fan speed for the **eyeBall** can be changed. There are three settings. High, medium and low. Using the Menu button, press until the display reads

Fan
<HIGH>

Press Enter and then using the ↑ or ↓ buttons, change the speed to either <MID> or <LOW>

16. White Balance.

To adjust the white balance, use the Menu button, press until the display reads

White
Balance

Press Enter. The default has the output of all five led elements (RGBWA) at full, in other words 255. To adjust them for a personalized maximum output Press Enter. The display will now read

White
R=255

R will be flashing. If this is the first color needing adjustment, press Enter. <255> will not be flashing. Use the ↑ or ↓ buttons to change the output. Press Enter. R will now be flashing again. Using the ↑ or ↓ buttons, move to the next Color G (green). Repeat for this color or just press Enter to move to the next color. Once complete no need to press Enter, the adjustments will be recorded after 10 seconds.

17. Default.

Using the Menu button, press until the display reads Default. Press Enter and then using the ↑ or ↓ buttons chose <YES> to reset to the Default settings or <NO> to remain with current settings.

18. Personality (Profile) tables.

ARC.1

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

ARC1.D

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

ARC.2

1	0-255	RED
2	0-255	GREEN
3	0-255	BLUE
4	0-255	WHITE
5	0-50	Linear dimmer speed (DIM=OFF)
	51-100	nonlinear speed 1 (DIM=1)
	101-150	nonlinear speed 2 (DIM=2)
	151-200	nonlinear speed 3 (DIM=3)
	201-255	Nonlinear speed 4 (DIM=4)

ARC2+D

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

18. Personality (Profile) tables continued.

AR2.S

1	000-255	MASTER DIMMER
2	000-255	RED
3	000-255	GREEN
4	000-255	BLUE
5	000-255	WHITE
6	000-255	STROBE
7	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)

ARC3

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

ARC3.D

1	0-255	MASTER DIMMER
2	0-255	RED
3	0-255	GREEN
4	0-255	BLUE
5	0-255	WHITE
6	0-255	AMBER
7	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)

18. Personality (Profile) tables cont.

ARC3.S

1	000-255	MASTER DIMMER
2	000-255	RED
3	000-255	GREEN
4	000-255	BLUE
5	000-255	WHITE
6	000-255	AMBER
7	000-255	STROBE
8	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)

HSV

1	0-255	H hue
2	0-255	S saturation level
3	0-255	V brightness
4	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)

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

1	Grand Master for RGBWA	0-255
2	RED Leds	0-255
3	GREEN Leds	0-255
4	Blue Leds	0-255
5	White Leds	0-255
6	Amber Leds	0-255
7	No effect	0-010
	Snap to Red 255	011
	Crossfade Red 255→000 Green 000→255	012-050
	Crossfade Green 255→000 Blue 000→255	051-090
	Crossfade Red 000→255 Blue 255→000	091-130
	Crossfade Red 255→000 White 000→ 255	131-150
	Crossfade Blue 000→255 White 255→ 000	151-170
	Snap to Red 255 Green 255 Blue 255 White 255	171-200
	Snap to White 1	201-205
	Snap to White 2	206-210
	Snap to White 3	211-215
	Snap to White 4	216-220
	Snap to White 5	221-225
	Snap to White 6	226-230
	Snap to White 7	231-235
	Snap to White 8	236-240
	Snap to White 9	241-245
Snap to White 10	246-250	
Snap to White 11	251-255	
8	Strobe effect	000-255
9	No effect/function	000-051
	Automatic Program 0 (Auto 0)	052-101
	Automatic Program 1 (Auto 1)	102-152
	Automatic Program 2 (Auto 2)	153-203
	Automatic Program 3 (Auto 3)	204-254
	Automatic Program 4 (Auto 4)	255
10	Speed control for the Automatic Programs (Slow to Fast)	000-255
11	DIM 0 = DIM OFF (straight Line dimmer effect)	000-050
	Dim 01 (dimmer curve 1. Shortest fade time)	051-100
	Dim 02 (dimmer curve 2. 2 nd Shortest fade time)	101-150
	Dim 03 (dimmer curve 3. 3 rd Shortest fade time)	151-200
	Dim 04 (dimmer curve 4. Longest fade time)	201-255

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 eyeBall (5-in-1)**.

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 eyeBall (5-in-1)** 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.

- Operating voltage 100 – 250v
- Frequency 50 – 60 Hertz
- 7 x quad 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.

Other products from Elektralite.

L.M. Elektrabar with glare shield for perfect cuts



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

The Elektralite 1018



Using 18 high powered 12 watt leds, the Elektralite 1018 is available using 4-in-1 or 6-in-1 leds. Each led can produce any combination of colors as each led is either an RGBW or RGBWAI device

Elektralite ML902



The ML902 utilizes a 120 watt Led and is brighter than a 250 discharge light source. Features include:- Color wheel, two gobo wheels, rotating gobos, rotating 3 facet prism, focus, dimmer, strobe and 16 bit pan and tilt.

Elektralite Stingray Ellipsoidal



The Elektralite Stingray is a 300 watt LED ellipsoidal with the output better than a conventional 750 watt fixture. Different LED types are available including Warm White, Cool white and RGBW. 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.

Elektralite SLA



The SLA is the perfect compact IP65 fixture for accent lighting everything from trees and walls to product hi-lighting. Even though it is compact it packs a massive punch with its 15 watt Cree RGBW leds.

Elektralite Dazer Downlight



The ideal pendant light. Made specifically for the installation market.
Can be simply installed by an electrical contractor. 180 watts of power.
Comes with 25 degree lenses installed but a lens pack (15°,45° & 60°) allows the beam angles to be changed in the field.