



ElektraLite

ElektraBar (6-in-1)

Manual



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1. Unpacking

Thank you for choosing the **ElektraBar** 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.

ElektraBar wash fixture uses 12 watt 6-in-1 leds in a balanced arrangement giving incredible output. Please unpack the **ElektraBar** carefully and check whether it was damaged in shipping.

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

- Stands (feet) and associated hardware
- 1 x Edison to waterproof connector
- 1 x 5pin DMX male to waterproof connector

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. **ElektraBar** 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 ElektraBar, then it could void the warranty.

The electric connection must carry out by a qualified person and it is absolutely essential that the **ElektraBar** 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, is there for safety.

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

3. General Guidelines.

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

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

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

When choosing the location to install the **ElektraBar**, please make sure that it is not exposed to extreme heat. 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 **ElektraBar** and the illuminated surface must be more than 3 feet.

Always mount the **ElektraBar** with an appropriate safety cable.

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

All modifications to the **ElektraBar** will invalidate the warranty.

There are absolutely no exceptions.

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

4. Grounding. (VERY IMPORTANT!!!)

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 **ElektraBar** has a surge current over and above its operating current of approximately 2 Amp at 120 volts. If an installation has 100 **ElektraBar** 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

5. DMX-512 Control Connection

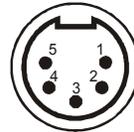
Connect an XLR cable to the signal output of your DMX controller. The other end should be connected to the male 5-pin XLR input of the **ElektraBar** cable that was supplied with the **ElektraBar**. Then daisy-chain out of the first **ElektraBar** into the next **ElektraBar** or other dmX device. Never “Y” split the DMX connection. The wiring of a 5 pin XLR input and output connector is shown in the diagram below.

DMX -output
XLR mounting-socket



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

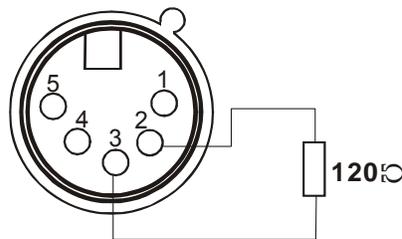
DMX -input
XLR mounting-socket



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 **ElektraBar** or other dmX device in the chain. Please see illustration below.



6. Static Look.

The **ElektraBar** can be set to a single static look quickly.

Use the Menu button to get to STAT.

Press Enter.

The next screen will read R000. This is addressing the RED leds.

If Red is to be in the static look, then use the ↑ or ↓ to increase the value of the red.

Numbers are expressed in DMX values so 0 is no output and 255 is highest output.

Press Enter to save the value.

Go to the next color Green.

If Green is to be in the static look, then use the ↑ or ↓ to increase the value of green.

Press Enter to save the value.

Go to the next color Blue.

If Blue is to be in the static look, then use the ↑ or ↓ to increase the value of blue.

Press Enter to save the value.

Go to the next color White.

If White is to be in the static look, then use the ↑ or ↓ to increase the value of white.

Press Enter to save the value.

Go to the next color Amber.

If White is to be in the static look, then use the ↑ or ↓ to increase the value of white.

Press Enter to save the value.

Go to the next color Indigo.

If White is to be in the static look, then use the ↑ or ↓ to increase the value of white.

Press Enter to save the value.

Go to the strobe function.

If the strobe function is to be in the static look, then use the ↑ or ↓ to increase 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.

7. Auto Programs.

The **ElektraBar** can be set to run some inbuilt programs.

PR01 to PR03 are pre-programmed and cannot be edited

To run a program 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. (Be sure to set up the speed so changes in the program can be seen. Otherwise the program will not run).

8. Run Mode.

Run allows the fixture to operate in either DMX or STMT mode
Using the Menu button in the root menu go to RUN.
Press Enter to get to DMX mode. To get to STMT mode use the ↑ or ↓
And press enter to save this setting.
DMX mode:- when DMX is disconnected or if the DMX fails, the
fixture will retain its last "look".
STMT mode:- when DMX is disconnected or if the DMX fails, the
fixture will go to the STATIC mode "DMX values".
Safety feature:- If the STATIC mode is set to 255 value for all LEDS
then this could be used as emergency lighting setting.

9. 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 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 **1**
To change it, use the ↑ or ↓ buttons to get to the correct address.

10. Sound.

Sound activation will move the auto program from one cue to another
by "listening" to the bass beat of the music. Remember no bass beat
then the program will remain static in the cue and not move to the next
cue.

11. 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?

Turn off the **ElektraBar**. Clean the fixture so that the outside of the
fixture is not covered in dust and dirt. The reason being the outside of
the body is the heat sink for the fixture and maximum cooling is
needed for the fixture to perform correctly.

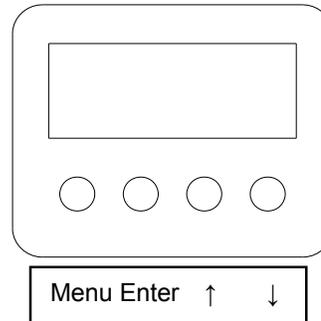
The clear front plastic cover for the lenses should be cleaned so the
light output is maintained. With the **ElektraBar** turned off, use only a
moist lint-free cloth, and clean the plastic cover. Never use alcohol or
solvents to clean the fixture. Never spray anything onto the fixture at
the front or in any place on the fixture.

12. Technical Specification.

- Operating voltage 100 – 250v
- Frequency 50 – 60 Hertz
- 18 x 6-in-1 12watt leds
- 240 VI

13. Menus.

- Press “Menu” to display the root Menu. Those are STAT, AUTO, RUN, DMX and SOUND.
- Press “up” ↑ / “down” ↓ to choose
- Press “ENTER” to confirm



0	STAT	R 0-255	Red dimming	
		G 0-255	Green dimming	
		B 0-255	Blue dimming	
		W 0-255	White dimming	
		A 0-255	Amber dimming	
		I 0-255	Indigo dimming	
		S 0-255	Strobe	
1	AUTO*	PR01	A000-255	Auto speed
			F000-255	Not Used
			S000-255	Strobe speed
		PR02	A000-255	Auto speed
			F000-255	Not Used
			S000-255	Strobe speed
		PR03	A000-255	Auto speed
			F000-255	Not Used
			S000-255	Strobe speed
2	RUN	DMX	When DMX is dis-engaged, the last DMX signal is locked on and output is maintained	
		STMT	When DMX is dis-engaged, the setting in STAT(static) is locked on and maintained. There is a 4 second delay before this engages and is operational	
3	DMX	Address 001 – Address 512		
4	SOUND**	Sound activate		

14. DMX Channel Assignments

Channel	DMX Values	Function
CH1	0-255	Master dimmer
CH2	0-255	Red Led dimming
CH3	0-255	Green Led dimming
CH4	0-255	Blue Led dimming
CH5	0-255	White Led dimming
CH6	0-255	Amber Led dimming
CH7	0-255	Indigo Led dimming
CH8	0-50	No function
	51-100	Built-in program 1
	101-150	Built-in program 2
	151-255	Built-in program 3
CH9	0-209	Synchronous strobe from slow to fast
	210-255	Asynchronous strobe from slow to fast
CH10	0-255	Auto speed form slow to fast
CH11***	0-7	No Dimmer speed (curve)
	8-59	Dimming speed (curve) 1
	60-119	Dimming speed (curve) 2
	120-179	Dimming speed (curve) 3
	180-255	Dimming speed (curve) 4

*There are 3 automatic programs. These programs are fully adjustable in terms of the speed at which the program runs (auto speed), and the strobe speed. The "F" function is not used and is for future software development.

**Sound activation will move the auto program from one cue to another by "listening" to the bass beat of the music. Remember no bass beat then the program will remain static in the cue and not move to the next cue.

***Dimmer curves serve to smooth the dimming of the leds. The minimum dimmer curve speed (or time) is in #1. The maximum is in #4.

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.

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 ML902



ElektraLite DazerIP65 in white