



Elektralite

Dazer Downlight

Warm White

(Version 2.01)

USER MANUAL

(From serial number 24130).



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1. Unpacking

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

To keep this simple, we are going to refer to the fixture as the **Elektralite Dazer Downlight** throughout the manual.

The **Elektralite Dazer Downlight** fixture uses 36 high powered 5 watt leds in a balanced arrangement giving incredible output. Please unpack it carefully and check whether it was damaged in shipping.

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. The

Elektralite Dazer Downlight 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 Dazer Downlight, then it could void the warranty.

During shipping, **Elektralite Dazer Downlight** may have been exposed to high temperature changes or humidity changes. So, as a precaution, do not switch **Elektralite Dazer Downlight** on immediately. Condensation can damage **Elektralite Dazer Downlight** so leave it switched off, until it has reached room temperature.

The electric connection must be carry out by a qualified person and it is **absolutely essential that the Elektralite Dazer Downlight be grounded**. This is imperative and is a safety issue.

Always disconnect the **Elektralite Dazer Downlight** from the power source, when the device is not in use or before cleaning it.

Only unplug **Elektralite Dazer Downlight** from the power cord. Never pull out the plug out by pulling on the power cord.

Please keep the **Elektralite Dazer Downlight** away from children and the general public. Please be intelligent and use common sense when operating the **Elektralite Dazer Downlight**.

3. General Guidelines.

The **Elektralite Dazer Downlight** is a lighting fixture for professional use on stages, in churches, theatres, etc.

The **Elektralite Dazer Downlight** should only be operated at between 120 to 240 volts and only indoors.

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

When choosing the location to install the **Elektralite Dazer Downlight**, please make sure that it is not exposed to extreme heat, moisture or dust. The minimum distance between the **Elektralite Dazer Downlight** and the illuminated surface must be more than 3 feet.

Always mount the **Elektralite Dazer Downlight** with an appropriate safety cable/chain.

Operate the **Elektralite Dazer Downlight** only when you are familiar with the features on the fixture. Do not permit operation by persons not qualified to operate it.

All modifications to the **Elektralite Dazer Downlight will invalidate the warranty. There are absolutely no exceptions.**

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

4. Changing Lenses.

The **Elektralite Dazer Downlight** comes with a set of different lenses. They are marked in a boxes. When replacing the lens plate great care has to be taken to not damage the leds themselves. First undo the four screws holding the lens in place and gently lift the whole lens plate off the leds. Place the new lens plate over the leds making sure the orientation of the lens plate is correct and the lens plate fits on top of the leds. Use the four screws to attach the plate to the fixture. Take GREAT care not to screw the screws down tightly as this will crush the leds and possibly damage the leds. Do not use any electrical screwdriver at any torque setting. Screwing the lens plate down too tightly may not break the leds but could damage the led terminals so that they will fail at a later date. The screw should be tightened like a car wheel but be no tighter than hand tight plus a quarter turn. It cannot be said strongly enough to be careful and NOT tighten the screws. Led damage by interchanging lenses is not covered under warranty in any circumstances. There is also a video on the website showing how to change lens.

5. Installation

Please ensure that the **Elektralite Dazer Downlight** is hung using the appropriate "C" clamp, half cheeseboro or threaded rod. 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.** There is a ring bolt on the rear panel for the safety.

If you are not qualified or have any doubts about hanging the **Elektralite Dazer Downlight** then do **NOT** hang it.

Do not clamp the 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 Dazer Downlight** if the "C" clamp, half cheeseboro or threaded rod fails. Then the safety cable would be the backup and stop the fixture from falling to the ground. So do **NOT** fix the safety to the same place that the primary point of holding is attached.

Installation during construction.

Many times fixtures are installed during the construction phase of a building. It is imperative that the fixture is protected during this phase. A lot of dust is usually created. This dust can adversely affect the fixture. Specifically, of course, in coating the lenses and therefore reducing the output. However much more seriously, dust, like sheetrock dust, can get inside the fan bearings especially if the fixture is being operated during construction. Sheetrock dust, mixed with the grease of the fan motor, will result in the fan's premature failure and that is not covered under the fixture's warranty. It is therefore strongly advised to keep the fixtures covered up during the construction phase and not used.

6. Grounding.

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

One further check : the ground to neutral voltage for each circuit. In a lot of buildings, voltages across these can damage fixtures or cause operational problems both for the fixture and DMX.

Please review these two important points with a qualified electrical contractor. If in any doubt, have an independent qualified third party electrical contractor check the installation, **well before** commencing installation.

Circuit Limitation :-

There should be no more than 5 **Dazer Downlights** on a 20 amp 120 volt circuit, having no other load on it. That means to say a, maximum of 5 **Dazer Downlights** are on a 20 amp 120 volt circuit with nothing else plugged into that circuit.

7. DMX-512 Control and Power input Connections



Once the cover plates have been removed from the rear panel, there are two terminal blocks.

Please refer to the picture above for wiring layout.

DMX signal consists of three wires. Those are Data+, Data- and screen.

Power Input consists of three wires Ground (G), Neutral (N) and Live (L).

Note :- We strongly advise you take one of the **Elektralite Dazer Downlights** and check the DMX wiring before hanging many multiple units. This way the correct wiring is achieved and the fixture works on DMX. If you do not do this you are liable to have all your fixtures up in the ceiling and the DMX wiring is wrong. That is a lot of wasted time. So check the DMX wiring and make sure the first fixture works from the control console.

The holes in the cover plate are standard 3/8" so the appropriate clamp for the cabling may be purchased at Home Depot, Lowes or electrical shop.

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 120 Ω resistor connected between Data + and Data -. The terminator is positioned on the DMX output side of the last fixture in the dmx chain.

8. Menus in the fixture.

Root Menu	Sub Menu 1	Sub Menu 2
STAT (STATIC LOOK)	W(HITE)	0-255
	S(STROBE)	0-255
DMX	ASSIGN DMX CHANNEL	1-512
PERS (PERSONALITY)	W	
	WD	
	WS	
	WS Id	
ID	ID 01 THROUGH 255	1-255
SET	POWS	
	ID SW	
	BSW	
	CURE	
	DIM	
	REST	
KEY	OFF	
	ON	
TEMP		
PWMF		1.2 KZ – 24.0KHZ

9. Static Look.

The **Elektralite Dazer Downlight** can be set to a single static look quickly.

Use the Menu button to get to **STAT**.

Press Enter.

The next screen will read W.000. This is addressing the White leds.

Use the ↑ or ↓ to increase or decrease the output of the 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. S.000 means the strobe is off

Use the ↑ or ↓ to increase or decrease the speed of the strobing or leave at S.000 if you want no strobe.

S.001 is the slowest and S.020 is the fastest strobing.

Press Enter to save the value. It will automatically bring you back to the output screen again.

Press the Menu button to exit out of **STAT** and back to the Root directory.

11. 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 menu 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 **001**

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

Press Enter to save the dmx address. The display will momentarily display the word "OK" and then go back to the DMX menu.

To exit out to the root directory, use the menu button.

12. Fixture Personality.

There are several different choices on how the fixture will operate.

What these "Personalities" do in terms of their channel assignments is detailed on the tables page 8.

To change a Personality use the Menu button to get to **PERS**

Press Enter and then using the ↑ or ↓ buttons go to the personality required.

Press Enter to save the Personality.

13. ID Address.

A fixture 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 1 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 choose the WS id personality.

This allows you to access the ID address system on channel 4.

Set the DMX address to d.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.

14. SET. (Set has several Sub Menus which allow functions to be used).

1). POWS

This function is either ON or OFF

OFF : in this mode, when the temperature rises, the fan will come on and operate. The operation time and speed of the fan is governed by the temperature. So if the leds are at 100% the fan will operate to cool down the temperature and once that is achieved the fan will turn off. It will come back on again as the temperature increases again.

ON : in this mode, when the temperature increases the fan will turn on but at the same time as the fan is cooling the leds the leds will automatically reduce their output (and hence temperature) by up to 10%.

Using the Menu button, go through the Root Menu until **Set**. Press Enter and then use the ↑ or ↓ buttons to get to **POWS**.

Press Enter and then use the ↑ or ↓ buttons to choose On or Off. Once chosen, press Enter to save it and then use the Menu button to exit back to the root directory.

2). ID SW

This mode turns On or OFF the ID address system. See 13 above for an explanation of ID address.

Using the Menu button, go through the Root Menu until **Set**. Press Enter and then use the ↑ or ↓ buttons to get to **IDSW**.

Press Enter and then use the ↑ or ↓ buttons to choose On or Off. Once chosen, press Enter to save it and then use the Menu button to exit back to the root directory.

3). BSW

This mode is not used in the Warm White Elektralite Dazer Downlight.

4). CURE

This mode sets up a dimmer curve.

CURE0 is no curve at all. CURE1 through to CURE3 are different curve generators with CURE3 being the smoothest.

Using the Menu button, go through the Root Menu until **Set**. Press Enter and then use the ↑ or ↓ buttons to get to **CURE**.

Press Enter and then use the ↑ or ↓ buttons to get to the DIM choice required. Once chosen, press Enter to save it and then use the Menu button to exit back to the root directory.

5). **DIM**

The Dim 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

Using the Menu button, go through the Root Menu until **Set**. Press Enter and then use the ↑ or ↓ buttons to get to **DIM**.

Press Enter and then use the ↑ or ↓ buttons to get to the DIM choice required. Once chosen, press Enter to save it and then use the Menu button to exit back to the root directory.

6). **REST**

This resets all values to their default.

Using the Menu button, go through the Root Menu until **SET**. Press Enter and then use the ↑ or ↓ buttons to get to **REST**. Press Enter. The display will have 4 dots across the bottom. The password needs to be entered. The password is the following sequence using the ↑ and ↓ buttons.

↑ ↓ ↑ ↓ then press Enter once, to complete the reset. The display will read "OK" followed by a return to the REST sub menu. The Menu button will need pressing to return to the Root Menu. Only when at the Root Menu will dmx control work. Please note the Reset also takes the dmx address back to 001.

15. **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)

16. **TEMP**

This display gives the current temperature of the fixture.

17. **PWMF**

The speed at which the power supply operates at can be varied from 1.2 Khz to 24 Khz.

Slower frequency gives better dimming results while higher frequencies are needed for 4K video.

16. The Personalities of the Dazer Downlight.

W

1	0-255	Dimmer
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WD

1	0-255	Dimmer
2	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)

WS

1	0-255	Dimmer
2	0-9	No Function
	10-49	Synchronized strobe slow
	50-99	Non synchronized strobe slow
	100-149	Random strobe slow
	150-199	Non synchronized fast strobe
	200-255	Synchronized fast strobe
3	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)

WS Id

1	0-255	Dimmer
2	0-9	No Function
	10-49	Synchronized strobe slow
	50-99	Non Synchronized strobe slow
	100-149	Random strobe slow
	150-199	Non Synchronized strobe fast
	200-255	Synchronized strobe fast
3	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)
4	0	All ID address work together
	1-255	Each dmx value is an ID address value. Each ID address is controlled individually at that DMX value

17. DMX Channel Assignments.

Depending on the Personality chosen, the **Elektralite Dazer Downlight** can be 1, 2, 3 or 4 channels.

Personalities:-

W = 1 channel (the first channel listed below)

WD = 2 channels (the first two channels listed below)

WS = 3 channels (the first three channels listed below). WS is the most common choice.

WS Id = 4 channels (as listed below all 4 channels)

1	0-255	Dimmer
2	0-9	No Function
	10-49	Synchronized strobe slow
	50-99	Non Synchronized strobe slow
	100-149	Random strobe slow
	150-199	Non Synchronized strobe fast
	200-255	Synchronized strobe fast
3	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)
4	0	All ID address work together
	1-255	Each dmx value is an ID address value. Each ID address is controlled individually at that DMX value

18. 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 is 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!

Use a small vacuum cleaner and 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 fan keeps the LEDs cool and keep the electronics cool too.

Without the fan working efficiently and dust free, the fixtures will fail and that will be a lot more costly than having someone vacuum the fixtures.

Check the fan on a regular basis, a quick "visual inspection" should be done. Use a pair of binoculars if the fixture is not easily assessable.

The front plastic cover for the lenses should be cleaned so the light output is maintained. Use only a moist lint-free cloth.

Never use alcohol or solvents to clean the fixture.

18. Technical Specification.

- Operating voltage 100 – 250v
- Frequency 50 – 60 Hertz
- 36 x 5 watt leds
- Fan cooled
- 305mm x 276mm x 230mm
- 12" x 10.9" x 9.1"
- 8.5 kgs
- 19 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.

ElektraLED has other great products that are manufactured under the Elektralite product line.

Go check out the website at www.myelektralite.com

A preview of the products include:-

Elektralite 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 of a conventional 750 watt fixture. Different LED types are available including Warm White, Daylight (5600K) and RGBL

Elektralite SLA



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