



# Elektralite LED

## Cool White Dazer

### USER MANUAL



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## 1. Unpacking

Thank you for choosing the **Elektralite Led Pro Line Cool 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 CW Dazer** throughout the manual.

The **Elektralite CW Dazer** 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.

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

Color/Gel frame  
DMX 5 pin male to 5 pin female cable

## 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 CW Dazer** 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 CW Dazer, then it could void the warranty.**

During shipping, **Elektralite CW Dazer** may have been exposed to high temperature changes or humidity changes. So, as a precaution, do not switch **Elektralite CW Dazer** on immediately. Condensation can damage **Elektralite CW Dazer** 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 CW Dazer be grounded**. This is imperative and is a safety issue. Do not break or bend out of the way, the ground center pin on the plug.

Always disconnect the **Elektralite CW Dazer** from the power source, when the device is not in use or before cleaning it. Only unplug **Elektralite CW Dazer** from the power cord. Never pull out the plug out by pulling on the power cord.

Please keep the **Elektralite CW Dazer** away from children and the general public. Please be intelligent and use common sense when operating the **Elektralite CW Dazer**. **3. General Guidelines.**

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

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

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

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

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

Operate the **Elektralite CW Dazer** 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 CW Dazer** will invalidate the warranty. There are absolutely no exceptions.

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

## 4. Installation

Please ensure that the **Elektralite CW Dazer** 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 CW Dazer** 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 CW Dazer** 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 to the same place that the "C" clamp 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.

## 5. 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 CW Dazer** 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.

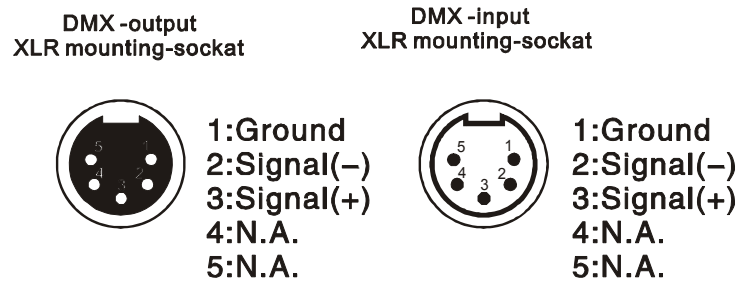
Please review these two important points with a qualified electrical contractor. If in any doubt, have an independent qualified third party electrical contractor check the installation, **well before** commencing installation.

### **Circuit Limitation :-**

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

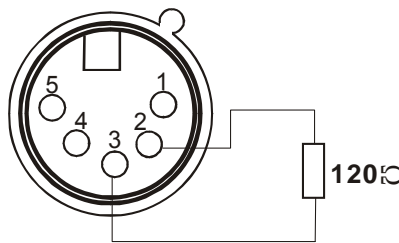
## 6. DMX-512 Control Connection

Connect the provided XLR cable to the female 5-pin XLR output of the **Elektralite CP 16/24** or other DMX controller. The other end should be connected to the male 5-pin XLR input of the **Elektralite CW Dazer**. Then daisy-chain out of the first **Elektralite CW Dazer** and into the next **Elektralite CW Dazer** 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 CW Dazer** or other dmx device in the chain. Please see illustration below.



## 7. Menus in the fixture.

Root Menu	Sub Menu 1	Sub Menu 2
STAT (STATIC LOOK)	W(HITE)	0-255
	S(STROBE)	0-255
RUN	DMX	
	STMT	
DMX	ASSIGN DMX CHANNEL	1-512
PERS (PERSONALITY)	WD	
	WS	
	WS Id	
ID	ID 01 THROUGH 255	1-255
SET	REST (RESET)	
	DV	
	DIM	
KEY	OFF	
	ON	

## 8. Static Look.

The **Elektralite CW Dazer** 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.

## 9. Run Mode.

**Run** allows the fixture to operate in either DMX or STMT.

DMX Mode is where control of the fixture is via the industry standard DMX signal.

Further, when the DMX signal is lost, the fixture will maintain the last refresh of the DMX signal prior.

This way the facility is not plunged into total darkness.

In STMT Mode, when the DMX signal is lost, the fixture will go to whatever the output values are set at in the STATIC LOOK.

STMT mode is good in an emergency.

If the fixtures are in a venue that needs, in an emergency, the lights to come FULL ON, then engage STMT mode and also make sure that the STATIC LOOK is set such that all leds are at 255. (See #8 Static Look above).

Using the Menu button in the root menu go to **RUN**.

Press Enter to get to DMX mode. Press Enter again to save the RUN mode as DMX.

A "ok" will appear and then the display will return to display **RUN**.

If the fixture is to be run in STMT mode, then when DMX mode appears on the screen instead of pressing enter use the ↑ or ↓ to get to STMT. Then press enter to save the STMT mode setting.

## 10. 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.

## 11. 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.

## 12. 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 chose 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.

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

#### 1). 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.

#### 2). 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 2<sup>nd</sup> shortest fade in and fade out time.

Choice 4:- Dim 3. The dimmer curve has the 3<sup>rd</sup> shortest fade in and fade out time

Choice 5:- Dim 4. The dimmer curve has the longest fade in and the 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.

#### 3).DV

The **DV** setting allows the ability of the leds to not flicker when using video camera.

The choices are NTSC or PAL. NTSC is the USA system.

Go through the Root Menu until **Set**. Press Enter and then use the ↑ or ↓ buttons to get to **DV**.

Press Enter and then use the ↑ or ↓ buttons to get to either NTSC or PAL. Once chosen, press Enter to save the setting and the Menu to exit back to the Root Menu.

### 14. 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)

### 15. Glass front plate.

Certain fixtures come with a glass plate. This glass plate fits onto the front of the leds. It slots in the gel frame holder and the clip latches the plate into position.





## 16. The Personalities of the CW Dazer.

### 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 CW Dazer** can be 2, 3 or 4 channels.

Personalities:-

**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  $\text{CO}_2$ . 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 on a regular basis.

How often should the fan 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 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.

## **19. 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](http://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.

### 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.

### 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 you to change the beam angles.