



# Elektralite

## Data Air System

### USER MANUAL



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## 1. Unpacking

Thank you for choosing the **Elektralite Data Air** system. 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.

The **Elektralite Data Air** system consists of a transmitter and a receiver each with a plug in power supply. Please unpack it carefully and check whether it was damaged in shipping.

The following items should be in the box:-

The basic system consists of a transmitter with power supply and a receiver with power supply.

## 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 Data Air** uses high voltage fixture. Be careful when dealing with high voltages. Plug the small connector at the end of the power supply cable into the XLR, then plug the power supply into a 120 v outlet. (The power supply will operate from 100 to 240 volts continuous power. However only an Edison connector is supplied for 120 volt USA/Canada).

**Please read this manual. If you do not read this manual and damages occur to the Elektralite Data Air, then it could void the warranty.**

Always disconnect the **Elektralite Data Air** power supply from the power source first, when the device is not in use. Only unplug **Elektralite Data Air** from the power cord. Never pull out the plug out by pulling on the power cord.

Please be intelligent and use common sense when operating the **Elektralite Data Air**.

## 3. General Guidelines.

**ElektraLite Data Air** is a wireless DMX system for professional use.

**ElektraLite Data Air** should be operated at between 100 to 240 volts. The power should be constant and not have large voltage fluctuations.

Please do not shake the **Elektralite Data Air** and avoid using brute force when installing or operating it.

When choosing the location to install the **Data Air**, please make sure that it is not exposed to extreme heat or cold. Make sure that the transmitter and receiver have a good amount of free space around it for air flow. The **Data Air** system works better when the transmitter and receiver are in line of sight. Any walls or other obstacles blocking line of sight will reduce the reception distance.

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

All modifications to the **Data Air** will invalidate the warranty. There are absolutely no exceptions.

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

## 4. Installation

Please ensure that transmitter and receiver are firmly plugged into their respective outlets. Because the transmitter and receiver casing is so much longer than a standard XLR, be careful to position the transmitter and receiver so they do not get damaged. If a power strip is used please make sure it is turned on.

## 5. DMX-512 Control Connection and Power Connection

### POWER:

The **Data Air** comes with an Edison connector power supply. Plug into 120 volts outlet.



### DMX 512 CONTROL:

**(The default setting for the channel is RED).**

#### Transmitter

Power up the transmitter. The red led will come on immediately. It will remain on solidly until the XLR is plugged into a controller outputting DMX. When the transmitter is plugged into a lighting board and the lighting board is "on", the transmitter's led will start to flash continuously. If the transmitter is unplugged, the led will stop flashing and remain on solidly again.

#### Receiver

Power up the receiver after you power up the transmitter. The red led will come on immediately. It will remain on solidly if no signal is being received. The led will start to flash if a signal is received.

## 6. CHANGING TRANSMISSION CHANNELS.

If a channel other than red is required. Then the procedure detailed below should be followed

### **Transmitter**

There is a small hole to the right of the led. Using a wooden tooth pick (or any small non-metallic object) carefully press the button recessed in the hole. Do not use a metallic object as this may short the circuit card inside the XLR. Pressing the button once changes the channel to the next available frequency and the color of the led. Pressing the button a second time, will get to the next available frequency and change the color of the led yet again.

The colors are as follows:-

Red

Green

Red+Green= Yellow

Blue

Red+Blue=Purple

Green+Blue=Cyan and

Red+Green+Blue=White.

Now because there is no lens covering the led, the color mixing will not be perfect.

However the component colors will be present. So if Red+Green is seen, then the channel is Yellow.

Having chosen the channel on the transmitter now go to the receiver.

### **Receiver.**

Using the wooden toothpick press the button in the hole. Repeat pressing the button until the color matches that chosen on the transmitter. The transmitter and receiver have now been paired.

### **Practical Recommendations.**

Pair and check the transmitter and receiver “on the floor” and check transmission and reception before fitting the receiver “up in the air” at the fixture. It’s easier to troubleshoot the channels etc “on the floor” than trying to communicate with someone “up in the air” at a fixture.

### **Troubleshooting.**

If the transmitter’s led is flashing, then it is transmitting the signal.

If the transmitter’s led is not flashing, then no DMX signal is going into the XLR.

Reasons for this could be:-

1. The XLR is not plugged into a board.
2. The board is not turned on.
3. The board’s output for that universe is turned off or faulty.
4. The power supply for the XLR is not plugged into the XLR correctly.
5. The power supply for the XLR is not powered up (check if plugged into a power strip that it is “on”) or the power supply maybe faulty.

If the receiver is flashing then, it is receiving the signal.

If the receiver is not flashing then check:-

1. The transmitter is on and working correctly. See above.
2. The power supply for the receiver is plugged into the XLR correctly.
3. The power supply for the XLR is not powered up (check if plugged into a power strip that it is “on”) or the power supply maybe faulty.
4. The distance from the transmitter to receiver

## 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 **L.M. Elektrabar** was designed with the help of a West Coast Lighting Rental Company's head person, so that we made the perfect linear led product.

### 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, Cool white, RGBA, and 7 color. 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 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 the beam angles to be changed in the field.