

American DJ®

ELECTRA LED DMX



User Instructions

American DJ®
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Electra LED DMX™

Introduction

Introduction: Congratulations and thank you for purchasing the Electra LED DMX™ by American DJ®, one of the finest pieces of its kind on the market today! The Electra LED DMX™ is a great inexpensive, light weight, intelligent fixture. Due to its physical specifications, it's a great piece for mobile DJ's, roller rinks, small clubs, bars, and bowling centers. When used in multiples of two or more, these units create an effect that rivals that of units that can cost up to three times the price. The Electra LED DMX™ was designed to run in a Master/Slave mode but can be used with any universal DMX-512 controller.

Customer Support: American DJ® provides a toll free customer support line, to provide set-up and installation help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.americandj.com for any comments or suggestions. Toll free customer service hours are Monday through Friday 9:00 a.m. to 5:30 p.m. Pacific Standard Time.

Voice: (800) 322-6337

Fax: (323) 582-2941

E-mail: support@americandj.com

To purchase parts online visit <http://parts.americandj.com>

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unit to rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty. In the unlikely event your unit may require service please contact American DJ® customer support.

Please recycle the shipping carton when ever possible.

Improvements and changes in specifications and design to this manual and unit may be made at any time without prior notice.

Electra LED DMX™

General Instructions

To optimize the performance of this product, please read these operating instructions carefully to familiarize yourself with the basic operations of this unit. These instructions contain important safety information regarding the use and maintenance of this unit. Please keep this manual with the unit, for future reference.

Electra LED DMX™

Features

- Includes Built-In Hanging Yoke
- Sound-Active
- Light Weight
- LED Output Similar to 250W Lamp
- Voltage is User Selectable
- UC3 Controller (Not Included)
- 2 Operating Modes: Sound Active and DMX-512 Control

Electra LED DMX™

Warranty Registration

The Electra LED DMX™ carries a three year (1095 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase. All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain a R.A. number by contacting customer support at (800) 322-6337.

Electra LED DMX™

Handling Precautions

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufacturer's warranty. In the unlikely event your unit may require service please contact American DJ®.

During operation the housing may become extremely hot. Avoid touching the unit with bare hands while in use.

American DJ® will not accept any liability for any resulting damages caused by the non-observance of this manual or any unauthorized modification to this unit.

Electra LED DMX™

Safety Precautions

For Your Own Personal Safety, Please Read and Understand This Manual Completely Before You Attempt To Install Or Operate This Unit!

- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- Do not spill water or other liquids into or on to your unit.
- Be sure that the local power outlet match that of the required voltage for your unit.
- Do not attempt to operate this unit if the power cord has been frayed or broken.
- Do not attempt to remove or break off the ground prong from the electrical cord. This prong is used to reduce the risk of electrical shock and fire in case of an internal short.
- Disconnect from main power before making any type of connection.
- Do not remove the cover under any conditions. There are no user serviceable parts inside.
- Never operate this unit when it's cover is removed.
- Always be sure to mount this unit in an area that will allow proper ventilation. Allow about 6" (15cm) between this device and a wall.
- Do not attempt to operate this unit, if it becomes damaged.
- This unit is intended for indoor use only, use of this product outdoors voids all warranties.
- Always mount this unit in safe and stable matter.
- Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 12 for cleaning details.
- Heat -This fixture should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
- The fixture should be serviced by qualified service personnel when:
 - A. Objects have fallen, or liquid has been spilled into the appliance.
 - B. The appliance has been exposed to rain or water.
 - C. The appliance does not appear to operate normally or exhibits a marked change in performance.

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® X-Move LED.™ The American DJ® Electra LED DMX™ has a user selectable voltage switch. Because line voltage may vary from venue to venue, you should be sure your unit voltage matches the wall outlet voltage before attempting to operate you fixture.

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. Therefore, the first fixture controlled by the controller could be the last fixture in the chain. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

Data Cable (DMX Cable) Requirements (For DMX and Master/Slave Operation): The X-Move LED™ can be controlled via DMX-512 protocol. The Electra LED DMX™ is be a three channel DMX unit. The DMX address is set using the dipswitches on the bottolm of the unit. Your unit and your DMX controller require a approved DMX-512 110 Ohm Data cable for data input and data output (Figure 1). We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm shielded cable (This cable may be purchased at almost all professional sound and lighting



Figure 1

stores). Your cables should be made with a male and female XLR connector on either end of the cable. Also remember that DMX cable must be daisy chained and cannot be split.

Notice: Be sure to follow figures two and three when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable’s shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR’s outer casing. Grounding the shield could cause a short circuit and erratic behavior.

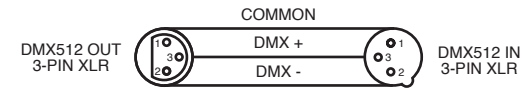


Figure 2

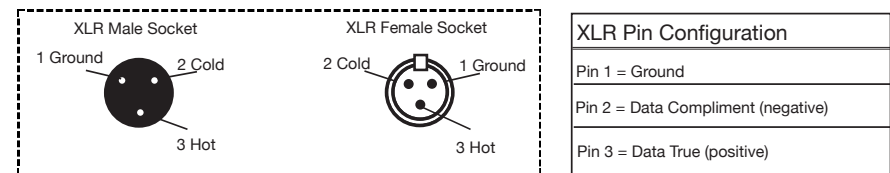


Figure 3

Special Note: Line Termination. When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 110-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted in the female XLR connector of the last unit in your daisy chain to terminate the line. Using a cable terminator (ADJ part number Z-DMX/T) will decrease the possibilities of erratic behavior.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture.

Figure 4

5-Pin XLR DMX Connectors. Some manufactures use 5-pin DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The chart below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use

Operating Modes:

The Electra LED DMX™ can run as a stand alone fixture or in a master/slave configuration. It has two operating modes:

- **Sound Active mode** - The unit will react to sound, chasing through the several built in programs. You can also use the optional UC3 Remote Control to blackout the fixture or control different functions.
- **DMX control mode** - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller such as the American DJ Show Designer.™

For best results use fog or special effects smoke to enhance the beams projections.

Sound Active Mode:

1. To operate the fixture in sound active mode, put dipswitch #1 in the "On" position.
2. The Electra LED DMX™ will now react to the bass sound of music via the internal microphone.
4. The optional *UC3 Controller* (not included) may be used to control different functions including blackout.

DMX Mode:

Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. Follow the the set-up directions that come with your DMX controller.

1. This function will allow you to control each individual fixture's traits with a standard Elation® DMX 512 controller.
2. The Electra LED DMX™ uses three DMX channels to operate; Channel 1 is Pan, channel 2 is Patterns & Chases, and channel 3 is Strobe.
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. Set your desired DMX address using the dipswitches on the bottom of the fixture. To set your address you can use the address chart on page 11.
4. Plug in the fixture via the XLR connections to any standard DMX controller.

Master-Slave Operation:











This function will allows you to link units together to run in a Master-Slave mode. In Master-Slave operation one unit will act as the con-

trolling unit and the others will react to the controlling units programs. Any unit can act as a Master or as a Slave.

1. Daisy chain your units via the XLR connector on the rear of the unit. Use approved DMX-512 data cables to link your units together. Remember that the Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain (master) will use the female XLR connector only. The last unit in the chain will use the male XLR connector only.
2. The first unit in the chain (master) will use the female XLR connector only - The last unit in the chain will use the male XLR connector only.
3. Turn dipswitch #1 to the "On" position on the master unit.
4. For the slave units any dipswitch can be set to the "On" position except dipswitch #1.
5. When running fixtures in Master/Slave configuration you can make the mirror pan of the 1st and 2nd fixtures contrast the mirror pan of the 3rd and 4th fixtures.
Example: Four fixtures are linked together. On fixtures 1 and 3 set the fixture 1 as a master and set fixture 3 as a slave. For fixtures 2 & 4 set them as slaves as well, but also put dipswitch #10 in the "On" position. The mirror pan of fixtures 1 & 2 will run the same and the mirror pan of fixtures 2 & 4 will run in contrast to fixtures 1 & 2. This makes a great light show.
6. You can also use the optional UC3 Remote Control. If you want to use the optional remote control, connect the UC3 controller to the first fixture in the line (master).

Note: The remote control only operates in Stand-Alone and Master/Slave modes. If the remote is connected in DMX mode it will not function. If the units do not receive an active DMX signal, the units will automatically react to sound in the Master/Slave mode.

First unplug the power. The fuse holder is located above the power cord. Using a flat-head screw driver unscrew the fuse holder. Remove the bad fuse and replace with a new one.

Ch1	Ch2	Ch3
Value	Pattern/Chase	Strobe/Speed
255 Fast 	250-255 Chase10 240-249 Chase09 230-239 Chase08 220-229 Chase07	255 Fast 
230 Slow 229 Fast 	210-219 Chase06 200-209 Chase05 190-199 Chase04 180-189 Chase03 170-179 Chase02 160-169 Chase01	
200 Slow 199 Fast 	150-159 Pattern15 140-149 Pattern14 130-139 Pattern13 120-129 Pattern12	
170 Slow 169 Fast 	110-019 Pattern11 100-109 Pattern10 090-099 Pattern09 080-089 Pattern08 070-079 Pattern07 060-069 Pattern06 050-059 Pattern05 040-049 Pattern04 030-039 Pattern03 020-029 Pattern02 010-019 Pattern01	
140 Slow 139 136° 	000-009 Blackout	
000 0°		010 Slow 000-009 No Strobe

Stand by	Blackout the unit		
Function	1. Sync. Strobe 2.Asynchronism.Strobe 3. Sound Strobe	1. Sync. Strobe 2.Asynchronism..Strobe 3. Sound Strobe	4. Move chase
Mode	Sound (pan fast) (LED OFF)	Sound (pan slow) (LED ON)	Auto (LED Slow Strobe)

MANUFACTURER'S LIMITED WARRANTY

A. American DJ, Inc. hereby warrants, to the original purchaser, American DJ and American Audio products to be free of manufacturing defects in material and workmanship for a prescribed period from the date of purchase (see specific warranty period on reverse). This warranty shall be valid only if the product is purchased within the United States of America, including possessions and territories. It is the owner's responsibility to establish the date and place of purchase by acceptable evidence, at the time service is sought.

B. For warranty service you must obtain a Return Authorization number (RA#) before sending back the product. Contact American DJ, Inc. Service Department at 800-322-6337. Send the product only to the American DJ, Inc. factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, American DJ, Inc. will pay return shipping charges only to a designated point within the United States. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, American DJ, Inc. shall have no liability whatsoever for loss of or damage to any such accessories, nor for the safe return thereof.

C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which American DJ, Inc. concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the American DJ, Inc. factory unless prior written authorization was issued to purchaser by American DJ, Inc.; if the product is damaged because not properly maintained as set forth in the instruction manual.

D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, American DJ, Inc. will replace defective parts at its expense with new or refurbished parts, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of American DJ, Inc. under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of American DJ. All products covered by this warranty were manufactured after January 1, 1990, and bear identifying marks to that effect.

E. American DJ, Inc. reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by American DJ, Inc. in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and/or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall American DJ, Inc. be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

This warranty is the only written warranty applicable to American DJ and American Audio Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

- All American Audio Products = 1-year (365 day) Limited Warranty (except V-Plus Series Amplifiers)
- All American Audio V-Plus Series Amplifiers = 3-year (1095 day) Limited Warranty
- American DJ Lighting and American DJ Branded Products = 1-year (365 day) Limited Warranty (Such as: Special Effect Lighting, Intelligent Lighting, UV lighting, Strobos, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding Laser Products and lamps)
- American DJ Laser Products = 90-Day Limited Warranty
- American DJ L.E.D. Products = 3-year (1095 day) Limited Warranty (excluding motors which have a 1-year (365 day Limited Warranty)

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MODEL:	Electra LED DMX™
Voltage:	120v~60 Hz, 230v~50Hz
LEDS:	52 LEDES (16 Red, 12 Green, 12 Blue, & 12 White)
Power Draw:	14W
Beam Angle:	15 Degrees
Fuse:	1 Amp / 250mAmp
Weight:	5 Lbs. / 2.6 Kgs
Dimensions:	17" (L) x 8" (W) x 9" (H)
Colors:	RGB + White
Duty Cycle:	None
Working Position:	Any Safe Position

Please Note: Specifications and improvements in the design of this unit and this manual are subject to change without any prior written notice.

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