

# MYSTIC LED



## User Instructions

American DJ®  
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### Mystic LED™

### Introduction

**Unpacking:** Thank you for purchasing the Mystic LED™ by American DJ®. Every Mystic LED™ has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your fixture for any damage and be sure all accessories necessary to operate the unit has arrived intact. In the case damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Do not return this unit to your dealer without first contacting customer support.

**Introduction:** The Mystic LED™ is part of American DJ's continuing pursuit for creating high quality affordable intelligent fixtures. The Mystic LED™ is a DMX intelligent LED moonflower effect. This fixture light weight and compact which makes it a great piece for mobile DJ's and clubs. This unit can be used in a stand alone sound-active mode or can be controlled via DMX controller.

**Customer Support:** American DJ® provides a toll free customer support line, to provide set up 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](http://www.americandj.com) for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Pacific Standard Time.

Voice: (800) 322-6337

Fax: (323) 582-2941

E-mail: [support@americandj.com](mailto: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®.

**PLEASE recycle the shipping carton when ever possible.**

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.

- Sound Active Mode and Preset Program
- Color Strobe
- Output Similar to a 250W Halogen Lamp\*
- Built in Microphone
- DMX-512 protocol (Uses 4 DMX Channels)
- UC3 Control (Not Included)

\*Output based on visual side-by-side comparison with halogen fixtures

The Mystic LED™ carries a 3 year (1095 days) limited warranty. Please fill out the enclosed warranty card to validate your purchase and warranty. You may also register your product online at [www.americandj.com](http://www.americandj.com). All returned service items whether under warranty or not, must be freight pre-paid and accompany a return authorization (R.A.) number. If the unit is under warranty you must provide a copy of your proof of purchase invoice. Please contact American DJ® customer support for a R.A. number.

- 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.
- Never plug this unit in to a dimmer pack
- 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.
- During long periods of non-use, disconnect the unit's main power.
- 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 the point they exit from the unit.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 11 for cleaning details.
- Heat -The appliance 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. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen, or liquid has been spilled into the appliance.
  - C. The appliance has been exposed to rain or water.
  - D. 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® Mystic LED™. The American DJ® Mystic LED™ is available in a 120v and 230v version. Because line voltage may vary from venue to venue, you should be sure your unit voltages 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 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. 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 Operation):**

The Mystic LED™ can be controlled via DMX-512 protocol. The Mystic LED™ is a four channel DMX unit. The DMX address is set on the top of the Mystic LED™. Your unit and your DMX controller require an 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 pro lighting 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 can not be split.



Figure 1

**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.

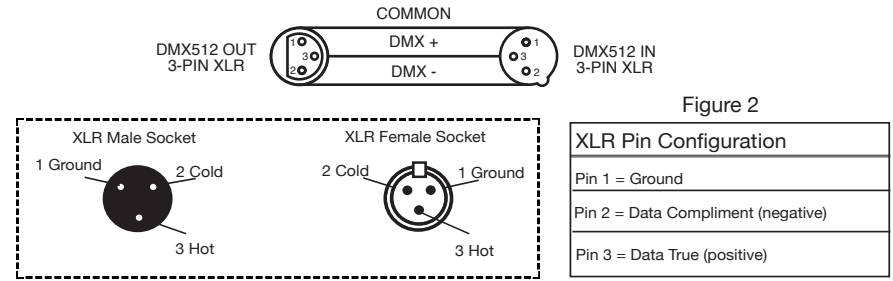


Figure 3

**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.

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		Do Not Use
Not Used		Do Not Use

**MAIN MENU -****A.001 - DMX Address Setting**

1. Press the ESCAPE button to get to the main menu. Press the UP button until "A.001" is displayed and press ENTER.
2. Tap the UP or DOWN buttons until the address that you want is displayed and press ENTER.

**TEST - This function will activate the preset program. To run the preset program Sound Active mode must be OFF.**

1. Press the ESCAPE (ESC) button to get to the main menu. Press the UP button until "TEST" is displayed and press ENTER. "MODE 1" will be displayed, press ENTER again to activate the preset program.

**AUDI - This function is the Sound Active mode.**

1. Press the ESCAPE (ESC) button to get to the main menu. Press the UP button until "AUDI" is displayed and press ENTER.
2. Press the UP button to display "ON" and press ENTER to confirm.
3. You can adjust the audio sensitivity of the unit by turning the audio sensitivity knob clockwise located at the rear of the fixture.

**Note: When the unit is in Sound Active mode, "test run" will continuously flash on the LCD screen.**

**RSET - When you activate the reset function, the fixture will begin the reset motion.**

1. Press the ESCAPE (ESC) to get to the main menu. Then press the UP button until "RSET" is displayed. Press the ENTER button to reset the fixture.

**Operating Modes:**

- Sound-Active mode - The unit will react to sound.
- Preset Program - The fixture will run a preset program.
- DMX control mode - This function will allow you to control each individual fixtures traits with a standard DMX 512 controller such as as the Elation® Show Designer™.

**Test Mode (Preset Program):**

**Stand-Alone Operation:** This function will run the fixture's preset program. **Note: Sound Active mode must be OFF, to run the preset program.**

1. Press the ESCAPE (ESC) button to get to the main menu. Then press the UP button until "TEST" is displayed and press ENTER.
2. "MODE 1" will now be displayed, press ENTER.
3. The fixture will now run the preset program.
4. The optional *UC3 Controller* (not included) may be used to control different functions including blackout.

**Sound Active Mode:**

**Stand-Alone Operation:** This mode allows a single unit to run to the beat of the music.

1. Press the ESCAPE (ESC) button to get to the main menu. Then press the UP button until "AUDI" is displayed. Press the ENTER button.
2. Press the UP button to display "ON". Press ENTER to confirm. Sound Active mode will start working after 10 seconds.
3. You can adjust the audio sensitivity of the unit by turning the audio sensitivity knob clockwise located in the rear.
4. The optional *UC3 Controller* (not included) may be used to control different functions including blackout.

**Master-Slave Operation:** This mode will allow you to link up to 16 units together and operate without a controller. In Master-Slave mode, the units will react to sound. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units programs. Any unit can act as a Master or as a Slave.

1. Using standard XLR microphone cables, daisy chain your units together via the XLR connector on the rear of the units. Remember the Male XLR connector is the input and the Female XLR



## Mystic LED™

## Operating Instructions

connector is the output. For longer cable runs we suggest a terminator at the last fixture. **Note: You can also daisy chain the power cords, this can only be done with 20 fixtures. After 20 you will need to use a new power outlet. They must be the same fixtures. DO NOT mix fixtures.**

**You do not have to assign the units Master/Slave. They will automatically fall into Master/Slave mode.**

2. Use the sensitivity knob on the rear of the master unit to make it more or less sensitive to sound..
3. 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.

1. This function will allow you to control each individual fixture's traits with a standard Elation® DMX 512 controller.
2. The Mystic LED™ uses four DMX channels to operate see page 8 for the DMX traits.
3. To control your fixture in DMX mode, follow the set-up procedures on pages 5-6 as well as the set-up specifications that are included with your DMX controller.
4. Follow the instructions on page 7 to set the DMX address.
5. Use the controller's faders to control the various DMX fixture traits.

## Mystic LED™

## Fuse Replacement

Locate and remove the unit's power cord. Once the cord has been removed locate the fuse holder located inside the power socket. Insert a flat-head screw driver into the power socket and gently pry out the fuse holder. Remove the bad fuse and replace with a new one. The fuse holder has a built-in socket for a spare fuse be sure not to confuse the spare fuse with active fuse.

## Mystic LED™

## DMX Traits

Channel	Value	Function
1	0 - 1	<u>LED OFF/ON &amp; STROBE</u>
	2 - 127	LED OFF
	128 - 135	STROBE SLOW - FAST
	136 - 253	LED ON
	254 - 255	RANDOM STROBE SLOW - FAST LED ON
2	0 - 41	<u>LED COLORS &amp; RAINBOW EFFECT</u>
	42 - 83	<u>SPEED CONTROL</u>
	84 - 125	RED
	126 - 167	RED & GREEN
	168 - 209	GREEN
	210 - 251	GREEN & BLUE
	252 - 255	BLUE
0 - 255	BLUE & RED ALL ON RAINBOW EFFECT SLOW - FAST	
3	0 - 63	<u>RAINBOW EFFECT</u>
	64 - 127	RAINBOW EFFECT OFF
	128 - 255	RAINBOW EFFECT ON
		RAINBOW EFFECT OFF
4	0	<u>LED ROTATION</u>
	1 - 85	NO ROTATION
	86 - 170	CLOCKWISE ROTATION FAST - SLOW
	171 - 178	COUNTER CLOCKWISE ROTATION SLOW - FAST
	179 - 255	NO ROTATION RANDOM ROTATION SLOW - FAST

**Note: When the Rainbow effect is active (Channel 3, values 64 -127), Channel 2 will control the speed of the Rainbow Effect (values 0-255).**

Due to fog residue, smoke, and dust cleaning the internal and external optical lenses must be carried out periodically to optimize light output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Clean the external optics with glass cleaner and a soft cloth every 20 days.
3. Always be sure to dry all parts completely before plugging the unit back in.

Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

Listed below are a few common problems the user may encounter, with solutions.

#### ***Unit not responding to DMX:***

1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on some other DMX devices pin 2 may be ‘hot’). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

#### ***Unit does not respond to sound:***

1. Quiet or high pitched sounds will not activate the unit.

*If problems are not resolved; Contact American DJ® for service.  
1-800-322-6337*

#### 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, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding Laser Products, lamps, and Star Tec Series)
- American DJ Laser Products and Star Tec 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: Mystic LED™**SPECIFICATIONS:

Voltage:	120V~60Hz / 230V~50Hz
LEDs:	224 5mm LEDs (88 Red, 48 Green, & 88 Blue)
Fuse:	3 Amp
Weight:	10bs./ 4.5Kgs.
Dimensions:	18.5" (L) x 14.75" (W) x 14.75" (H)
Colors:	RGB
Working Position:	Any safe working position
Warranty:	3 Year (1095 days)

**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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