ADJ

MYSTIC
— LED —

User Instructions

Contents

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: If you encounter any problems, please contact your trusted American Audio shop.

We also offer the possibility, to contact us directly: You can contact us via our website www.amerciandj.eu or via email: support@americandj.eu

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

Warning! This may cause severe eye damage. Avoid looking directly into the light source at all times!

PLEASE recycle the shipping carton whenever possible.

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.

FEATURES

• 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

SAFETY PRECAUTIONS

• 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 volt- age 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 out` doors 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 t he 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 (inclu-
d ing 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

SET UP

P**ower 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

Figure 1

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.

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.
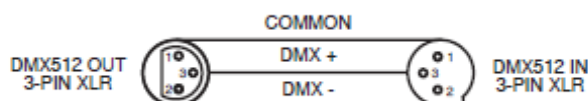
COMMON

DMX512 OUT 3-PIN XLR   DMX +   DMX512 IN 3-PIN XLR   DMX -

Figure 2

XLR Male Socket   XLR Female Socket

1 Ground   2 Cold   2 Cold   1 Ground

3 Hot   3 Hot

XLR Pin Configuration
Pin1 = Ground
Pin2 = Data Compliment (negative)
Pin3 = Data True (positive)

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 90-120 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, (Resistance120 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		Do Not Use
Not used		Do Not Use

SYSTEM MENU

MAIN MENU -

A.001 - DMX Address Setting

1. Press the ESCAPE button to get to the main menu. Press the UP button until "A001" 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 EN-

TER. "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 EN- TER.
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. Remem- ber the Male XLR connector is the input and the Female XLR 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.

OPERATING INSTRUCTIONS (continued)

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

FUSE REPLACEMENT

Locate and remove the unit's power cord. Once the cord has been removed located 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.

DMX TRAITS

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

CLEANING

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).

TROUBLE SHOOTING

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.

SPECIFICATIONS

Model: *Mystic LED™*
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

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

Dear Customer,

ROHS – A great Contribution to the Conservation of Environment

The European Union has adopted a directive on the restriction / prohibition of the use of hazardous substances. This directive, referred to as ROHS, is a frequently discussed topic in the electronic industry.

It restricts, among other things, six materials: Lead (Pb), Mercury (Hg), hexavalent chromium (CR VI), cadmium (Cd), polybrimated biphenyls as flame retardant (PBB), polybrominated diphenyl, also a flame retardant (PBDE). The directive applies to nearly all electronic and electrical devices whose mode of operation involves electric or electromagnetic fields – in short: each kind of electronics we have around us in our households or at work.

As manufacturers of products of the brands of AMERICAN AUDIO, AMERICAN DJ, ELATION Professional and ACCLAIM Lighting, we are obligated to comply with the RoHS directive. Therefore, as early as two years prior to the directive coming into force, we started our search for alternative environmentally friendly materials and manufacturing processes.

Well before the RoHS directive took effect, all of our products were manufactured meeting the standards of the European Union. With regular audits and material tests we can still assure that the components we use are always RoHS-compliant and that the manufacturing process, as far as the state of technology allows, is environmentally friendly.

The ROHS directive is an important step to the protection of our environment. We, as manufactures, feel obligated to make our contribution in this respect.

WEEE – WASTE OF ELECTRICAL AND ELECTRONIC EQUIPMENT

Every year thousands of tonnes of electronic components, which are harmful to the environment, end up at the waste disposals around the world. To ensure the best possible disposal or recovery of electronic components, the European Union has adopted the WEEE directive.

The WEEE-system (Waste of Electrical and Electronic Equipment) can be compared with the system of the "Green Spot", which has been in use for several years. The manufactures have to make their contribution to the utilization of waste at the time they release the product. Money resources obtained by doing so will be applied to develop a common system of waste management. Thereby we can ensure professional and environmentally friendly scraping and recycling program.

As manufactures, we are part of the German system of EAR and we make our contribution towards it.

(Registration in Germany: DE41027552)

That means that products of AMERICAN DJ and AMERICAN AUDIO can be left in the collection points free of charge and they will be used in the recycling program. Products of ELATION Professional, which are used only by professionals, shall be handled by us. Please send Elation products directly to us at the end of their lifetime so that we can professionally dispose of them.

Like the above ROHS, the WEEE directive is an important contribution to the environment protection and we are glad to help to clean the environment with this disposal system.

We are happy to answer any of your inquiries and welcome your suggestions at: info@americandj.eu

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