

# American DJ®

# X-MOVE LASER



## User Instructions

American DJ®  
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### X-Move Laser

### General Introduction

**Unpacking:** Thank you for purchasing the X-Move Laser™ by American DJ®. Every X-Move Laser™ 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 equipment necessary to operate the unit has arrived intact. In the event damage has been found or parts are missing, please contact our toll free customer support number for further instructions. Please do not return this unit to your dealer without contacting customer support first.

**Introduction:** The X-Move Laser™ is a six channel DMX intelligent, moving head, mini laser fixture. The X-Move Laser™ can operate as a stand alone fixture, in a Master/Slave configuration, or under DMX control. The X-Move Laser™ is a sound active fixture, but it can also be controlled via DMX. *For best results use fog or special effects smoke to enhance the beams projections.*

**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. *For service related issue please contact American DJ®.* 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 customer support.

*PLEASE recycle the shipping carton whenever possible.*

## X-Move Laser General Instructions

Please carefully read and understand the instructions in this manual thoroughly before attempting to operate 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.

## X-Move Laser Features

- 4.9mW Green Laser Diode
- 6 Channel DMX Control
- 3 Operating Modes - Sound Active, Show Mode, & DMX Control
- Fan Cooled
- Digital Display for Address and Function Setting
- Multiple Patterns
- UC3 Controller (Not Included)
- 4 Preprogrammed Shows

## X-Move Laser Warranty Registration

The X-Move Laser carries a 90 day 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. 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.

## X-Move Laser Safety Precautions



**Safety Issues:** This unit may “pop” the breaker if the maximum allotted load of 2 amps is reached.

- 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.
- 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. Do not attempt to operate this unit if the power cord has been frayed or broken.
- 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.
- 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 cords should be routed so they are not likely to be walked on, pinched by items placed upon or against them.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 18 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 unit.
  - C. The unit has been exposed to rain or water.
  - D. The unit does not appear to operate normally or exhibits a marked change in performance.

## X-Move Laser Laser Warning Labels



## X-Move Laser Set Up

**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 Laser™. The American DJ® X-Move Laser™ is available in a 120v and 220v version. 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. Also be sure to only use the included I.E.C. power cable supplied with the unit, this cable matches the voltage and current requirements of the unit.

**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 Laser™ can be controlled via DMX-512 protocol. The X-Move Laser™ is be a six channel DMX unit. The DMX address is set electronically using the controls on the rear panel 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



Figure 1

**X-Move Laser Set Up**

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 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.

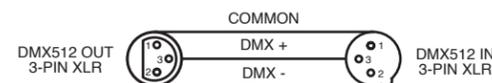


Figure 2

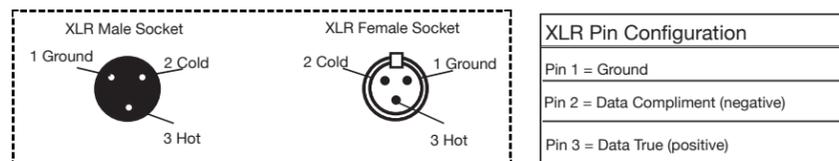


Figure 3

**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.

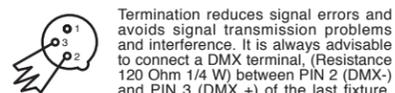


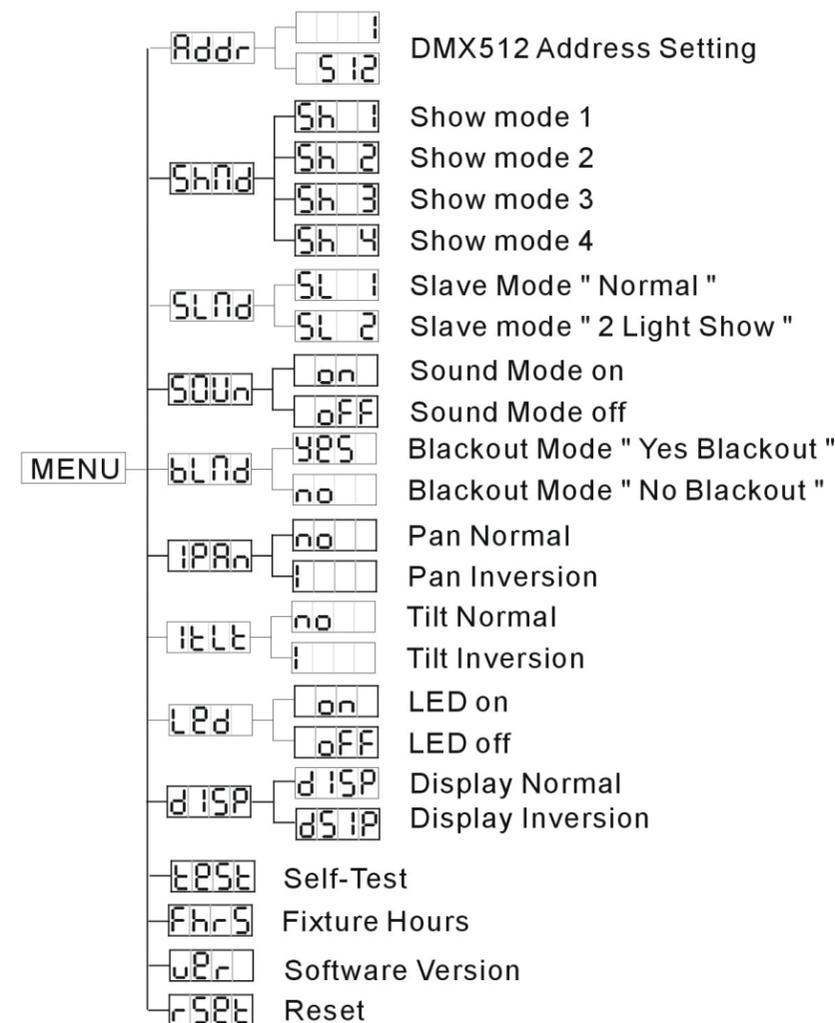
Figure 4

**X-Move Laser Set Up**

**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

**X-Move Laser™ System Menu Chart**



**X-Move Laser™ System Menu**

**System Menu: When making adjustments you can press ENTER to confirm your setup or you can wait 8 seconds for automatic setup. To exit without making any adjustments press the MENU button.**

**ADDR - DMX Address Setting.**

1. Tap the either the MENU, UP, or DOWN buttons until "ADDR" is displayed, press ENTER.
2. The current address will now be displayed and flashing. Press the UP or DOWN buttons to find your desired address. Press ENTER to set your desired DMX address.

**SHND - This will let you choose one of the four preprogrammed shows. See show descriptions below.**

1. Tap the either the MENU button until "SHND" is displayed, press ENTER. Either "5H 1", "5H 2", "5H 3" or "5H 4" will be displayed.
2. Tap the UP or DOWN buttons to find you desired show and then press ENTER to confirm and exit.

**SHOWS:**

**Show 1** - For fixtures placed on the floor, the tilt movement angle is 210°

**Show 2** - For fixtures fixed to the ceiling or truss, the tilt movement angle is 90°.

**Show 3** - For fixtures placed on a table. The beam is projected at the audience's direction; i.e. in front of the stage. Pan movement angle (left to right to left) is 160°. Tilt movement angle is 90°.

**Show 4** - For fixtures fixed to the ceiling. The beam is projected at the audience's direction; i.e. in front of the stage. Pan movement angle (left to right to left) is 160°. Tilt movement angle is 90°.

## SLND – This will let you set unit as a master or slave in a master/slave configuration.

1. Tap the MENU button until “SLND” is displayed, press ENTER. Either “SL 1” or “SL 2” will be displayed.

2. Tap the UP or DOWN buttons until your desired setting is displayed, press ENTER to confirm.

**NOTE:** In a Master/Slave configuration you can make one fixture the Master and then set the next fixture to “SL 2”, the fixtures will now have contrast movement to each other.

## SOUN – Sound Active mode.

1. Tap the MENU button until “SOUN” is displayed, press ENTER.

2. The display will show either “ON” or “OFF”. Press the UP or DOWN buttons to select “ON” to activate sound active mode, or “OFF” to deactivate sound active mode.

3. Press ENTER to confirm.

## BLND – Blackout or Stand by mode.

1. Tap the MENU button until “BLND” is displayed, press ENTER. Either Yes or No will be displayed.

2. To activate Blackout tap the UP or DOWN buttons until “Yes” is displayed, press ENTER to confirm. The fixture will now be in Blackout mode. To deactivate Blackout mode, select “No” and press Enter.

## I PAN – Pan Inversion

1. Tap the MENU button until “I PAN” is displayed, press ENTER. Either “NO” or “I” will be displayed.

2. To activate the Pan inversion tap the UP or DOWN buttons until “I” is displayed, press ENTER to confirm. To deactivate Pan inversion, select “NO” and press Enter.

## I TLT – Tilt Inversion

1. Tap the MENU button until “I TLT” is displayed, press ENTER. Either “NO” or “I” will be displayed.

2. To activate the Tilt inversion tap the UP or DOWN buttons until “I” is displayed, press ENTER to confirm. To deactivate Tilt inversion, select “NO” and press Enter.

## LED – With this function you can have the LED display turn off after 10 seconds.

1. Tap the MENU button until “LED” is displayed, press ENTER.

2. The display will show either “ON” or “OFF”. Press the UP or DOWN buttons to select “ON” to keep the LED display on at all times, or “OFF” to switch to have the LED display switch off after 10 seconds.

3. Press ENTER to confirm.

## DISP – This function will reverse the display 180°.

1. Tap the MENU button until “DISP” is displayed, press ENTER.

2. Press ENTER to “flip” the display. Press ENTER to “flip” it again. Press ENTER when you have made your desired setup.

## TEST – This function will run a self test program. The test program will test pan/tilt movement and colors.

1. Tap the MENU button until “TEST” is displayed, press ENTER.

2. The fixture will now run a self test.

## FHRS – With this function you can display the running time of the fixture.

1. Tap the MENU button until “FHRS” is displayed, press ENTER.

2. The display shows the running time of the unit. Press MENU to exit.

## VER – With this function you can display the version software of the unit.

1. Tap the MENU button until “VER” is displayed, press ENTER.

2. The display will now display the version of software. Press MENU to exit.

## RSET – Use this function to reset the unit.

1. Tap the MENU button until “RSET” is displayed, press ENTER.

2. The fixture will now reset

**Operating Modes:** The X-Move Laser™ can operate in three different modes. In each mode you can run the fixture as a stand alone fixture or in a master/slave configuration. This next section will detail the differences in the operating modes.

- **Sound Active mode -**

The fixture will react to sound, chasing through the built-in programs.

- **Show mode -**

The fixture will run one of four shows that you choose.

- **DMX control mode -**

This function will allow you to control each individual fixtures traits with a standard DMX-512 controller such as the Elation® Show Designer.™

**Master-Slave Operation** This function will allow you to link up to 16 units together and operate without a controller. The units will be sound activated. 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 approved DMX data 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 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. For longer cable runs we suggest a terminator at the last fixture.
2. On the Master unit find your desired show and set that show by pressing the ENTER button.
3. On the slave units tap the MENU button until “SLND” is displayed, and Press ENTER. Choose either “SL 1” or “SL 2” and press ENTER. Please see page 11 for more info.
4. The slave units will now follow the Master unit.

**Universal DMX Control:** This function allows you to use a Elation® universal DMX-512 controller to control the chases and patterns, dimmer and strobe. A DMX controller allows you to create unique programs tailored to your individual needs.

1. The X-Move Laser™ is a six DMX channel DMX fixture. See

**X-Move Laser™ Operation**

- pages 16-17 for detailed description of the DMX values and traits.
- To control your fixture in DMX mode, follow the set-up procedures on pages 5-7 as well as the set-up specifications that are included with your DMX controller.
  - Use the controller's faders to control the various DMX fixture traits.
  - This will allow you to create your own programs.
  - Follow the instruction on page 8 to set the DMX address.
  - For longer cable runs (more than a 100 feet) use a terminator on the last fixture.
  - For help operating in DMX mode consult the manual included with your DMX controller.

**Sound Active Mode:** This mode allows either single unit or several units linked together, to run to the beat of the music.

- Tap the MENU button until "SOUND" is displayed, and press ENTER.
- Tap the UP or DOWN buttonS until you find your desired show, and press ENTER.
- The optional *UC3 Controller* (not included) may be used to control different functions including blackout.

**Show Mode:** This mode allows either a single unit or several units linked together, to run one of four shows that you choose.

- Tap the MENU button until "SHOW" is displayed, and press ENTER.
- Tap the UP or DOWN buttons until you find your desired show, and press ENTER.

**X-Move Laser™ UC3 Control**

The optional *UC3 Controller* (not included) may be used to control different functions including blackout.

Stand By	Blackout on		
Function	discontinuous line effect	Show mode 1-4	Select Pattern
Mode	<b>LED off</b>	LED blinking	LED on

**X-Move Laser™ DMX Traits**

Channel	Value	Function
1	0 - 255	PAN
2	0 - 255	TILT
3 ↓	0 - 12 13 - 24 25 - 36 37 - 48 49 - 60 61 - 72 73 - 85 86 - 97 98 - 109 110 - 121 122 - 133 134 - 145 146 - 157 158 - 170 171 - 182 183 - 194 195 - 206 207 - 218 219 - 230 231 - 242 243 - 255	<u>LASER PATTERNS</u>
		PATTERN 1
		PATTERN 2
		PATTERN 3
		PATTERN 4
		PATTERN 5
		PATTERN 6
		PATTERN 7
		PATTERN 8
		PATTERN 9
		PATTERN 10
		PATTERN 11
		PATTERN 12
		PATTERN 13
		PATTERN 14
		PATTERN 15
		PATTERN 16
		PATTERN 17
		PATTERN 18
		PATTERN 19
		PATTERN 20
PATTERN 21		
4 ↓	0 - 15 16 - 239 240 - 255	<u>LASER MOVEMENT</u>
		LASER OFF
		LASER PATTERN MOVEMENT FAST - SLOW LASER ON/NO MOVEMENT
5 ↓	0 - 7 8 - 28 29 - 49 50 - 70	<u>MOVING HEAD MOVEMENT</u>
		NO FUNCTION
		MOVEMENT 1
		MOVEMENT 2
		MOVEMENT 3

**X-Move Laser™ DMX Traits**

Channel	Value	Function		
5 ↓	71 - 91 92 - 112 113 - 133 134 - 154 155 - 175 176 - 196 197 - 217 218 - 238 239 - 255	<u>MOVING HEAD MOVEMENT</u>		
		MOVEMENT 4		
		MOVEMENT 5		
		MOVEMENT 6		
		MOVEMENT 7		
		MOVEMENT 8		
		MOVEMENT 9		
		MOVEMENT 10		
		MOVEMENT 11		
		MOVEMENT 12		
		6	0 - 255	MOVEMENT SPEED FAST - SLOW

**X-Move Laser™ 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.

**X-Move Laser Cleaning**

**Fixture Cleaning:** Due to fog residue, smoke, and dust cleaning the internal and external lenses should be carried out periodically to optimize light output.

- Use normal glass cleaner and a soft cloth to wipe down the outside casing.
- Clean the external optics with glass cleaner and a soft cloth every 20 days.
- 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). In heavy use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp beam output.

**X-Move Laser™ Trouble Shooting**

**Trouble Shooting:** Listed below are a few common problems that you may encounter, with solutions.

**No light output from the unit;**

- Be sure you have connected your unit into a standard 120v wall outlet.
- Be sure the external fuse has not blown. The fuse is located on the rear panel of the unit.
- Be sure the fuse holder is completely and properly seated.

**Unit does not respond to sound;**

- Low frequencies (bass) should cause the unit to react to sound. Tapping on the microphone, quiet or high pitched sounds may not activate the unit.

## X-Move Laser

## Warranty

### 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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## X-Move Laser

## Specifications

### **Model: X-Move Laser**

<b>Voltage*:</b>	120v~60Hz / 230v~50Hz
<b>Lasers:</b>	4.9mW Green Diode
<b>Dimensions:</b>	8"(L) x 7.5"(W) x 11.25"(H) 203.2mm x 190.5mm x 285.75mm
<b>Colors:</b>	Green
<b>Weight:</b>	10 Lbs. / 4.5 kgs.
<b>Fuse:</b>	1 Amp (120v & 230v)
<b>Duty Cycle:</b>	None
<b>DMX:</b>	6 DMX Channels
<b>Sound Active:</b>	Yes
<b>Working Position:</b>	Any Safe, Secure Position
<b>Warranty:</b>	90 Days

*\*Voltage is preset at the factory and can not be changed by the user.*

**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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