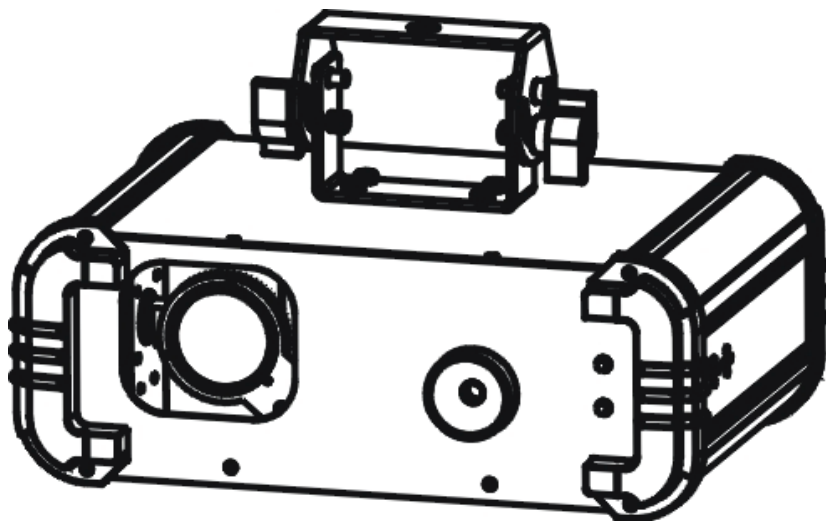




# DIVERSA RAY *American DJ*



## User Instructions

### Diversa Ray

**Unpacking:** Thank you for purchasing American DJ®. Every Diversa Ray has been thoroughly tested and shipped in perfect operating condition. Please inspect the carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully open the box to inspect for damage and be sure all equipment necessary for operation arrived intact. In the event damage has been done to the unit, please contact our toll free customer support line for instructions. Please do not return this unit without first contacting customer support first.

**Introduction:** The American DJ® Diversa Ray produces a variety of effects in one unit. It produces a "Galaxy" effect with red and green beams, a "Liquid Sky" effect, and a "Star" effect. The Diversa Ray has three operating modes: show mode, or controlled via DMX. The unit can be used as a stand alone fixture or in a Master/Slave configuration. It can use fog or special effects smoke to enhance the effects.

**Customer Support:** American DJ® provides a toll free customer support line, to provide set up help and to answer any questions you encounter problems during your set up. You may also visit us on the web at [www.american-dj.com](http://www.american-dj.com) for comments or suggestions. *For service related questions, please contact American DJ®.* Service Hours are Monday through Friday, 9 a.m. to 5 p.m. Pacific Standard Time.

Voice: (800) 322-6337

Fax: (323) 582-2941

E-mail: [support@american-dj.com](mailto:support@american-dj.com)

To purchase parts online visit <http://www.american-dj.com>

**Warning!** To prevent or reduce the risk of injury, do not expose this unit to rain or moisture.

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

*PLEASE recycle the shipping carton when possible.*

## Diversa Ray

## 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.

**CAUTION IMPORTANT!** When installing this projector, make sure that it is mounted in a manner that prevents the audience from looking directly into the beam, and the beam from striking the audience.

## Diversa Ray

## Features

- 30mW Green Laser Diode & 80W Red Laser Diode
- 9 DMX Channels
- 3 Operating Modes - Sound Active, Show Mode & DMX Control
- Fan Cooled
- Digital Display for Address and Function Setting
- UC3 Controller (Not Included)

## Diversa Ray

## Warranty Registration

The Diversa Ray 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.

## Diversa Ray



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

- To reduce the risk of electrical shock or fire, do not use in rain or moisture.
- Do not spill water or other liquids into the unit.
- Do not attempt to remove or break off the electrical cord. This prong is used to reduce the risk of shock and fire in case of an internal short circuit. Do not operate this unit if the power cord has been damaged.
- Disconnect from main power before maintenance.
- Do not remove the cover under any circumstances to access serviceable parts inside.
- Always be sure to mount this unit in an area with good ventilation. Allow about 6” (15cm) between the unit and the wall.
- Do not attempt to operate this unit, if it is damaged.
- This unit is intended for indoor use only. Outdoor use voids all warranties.
- During long periods of non-use, disconnect from power.
- Always mount this unit in safe and stable location.
- Power cords should be routed so they are not walked on, pinched by items placed upon or against them.
- Cleaning -The fixture should be cleaned regularly by the manufacturer. See page 21 for cleaning instructions.
- Heat -The appliance should be situated away from heat sources such as radiators, heat registers, stoves, etc. (including amplifiers) that produce heat.
- The fixture should be serviced by qualified personnel if:
  - A. The power-supply cord or the plug has been damaged.
  - B. Objects have fallen, or liquid has been spilled on the unit.
  - C. The unit has been exposed to rain or moisture.
  - D. The unit does not appear to operate normally or shows a marked change in performance.

**NON-INTERLOCKED HOUSING WARNING**

The Diversa Ray contains high power laser devices internally. **Do not** open the laser housing, due to the potential exposure to unsafe levels of laser radiation. The laser power levels, if the unit is opened, can cause instant blindness, skin burns and fires.

**STOP AND READ ALL LASER SAFETY DATA  
OPERATION INSTRUCTIONS AND LASER SAFETY**

The light source emitted from this product can potentially cause eye injury if not set up and used properly. The light source emitted from a laser is very different from any other light sources with which you may be aware of. Laser light is thousands of times more concentrated than any light from any other kind of light source. This concentration of light can cause instant eye injuries, primarily by burning the retina (the back of your eyeball containing cells that are sensitive to light). Even if you cannot feel “heat” from a laser beam, it can still potentially injure or blind you or your audience. Even very small amounts of laser beam light are potentially hazardous even at long distances. Laser eye injuries can be sustained faster than you can blink.

Do not think that because this laser splits the laser beam into hundreds of beams and that the laser beam is scanned out in high speed, that an individual laser beam is safe for eye exposure. This laser uses dozens of milliwatts of laser power (Class 3B levels internally) before it splits into multiple beams (Class 3R levels). Many of the individual beams are potentially hazardous to the eyes.

Do not think that because the laser light is moving, it is safe. This is not true. Nor, do the laser beams always move. Since eye injuries can occur instantly, it is critical to prevent even the smallest possibility of any direct eye exposure. In the laser safety regulation, it is not legal to aim Class 3R lasers in areas which people can get exposed. This is true even if it is aimed below people’s faces, such as on a dance floor.

**Do not operate the laser without first reading and understanding all safety and technical data in this manual.**

Always set up and install all laser effects so that all laser light is at least 3 meters (9.8 feet) above the floor on which people can stand.

After setting up, and before public use, test the laser function. Do not use if any defect is detected. The laser emits only one or two laser beams rather than a fan of light. This could indicate damage to the diffraction grating, which could allow emission of higher laser levels above the fan of light.

**Do not** point lasers at people or animals. Do not point at the aperture or laser beams.

**Do not** point lasers in areas in which people can be exposed, such as uncontrolled balconies or stairwells.

**Do not** point lasers at highly reflective surfaces such as mirrors and shiny metal. Even laser reflections can be hazardous.

**Never** point a laser at aircraft, this is a federal offense.

**Never** point un-terminated laser beams at people.

**Do not** expose the output optic (aperture) to direct sunlight.

**Do not** use laser if the laser appears to be damaged or if the beams are not visible.

**Do not** use the laser if the housing is damaged or if the optics appear damaged in any way.

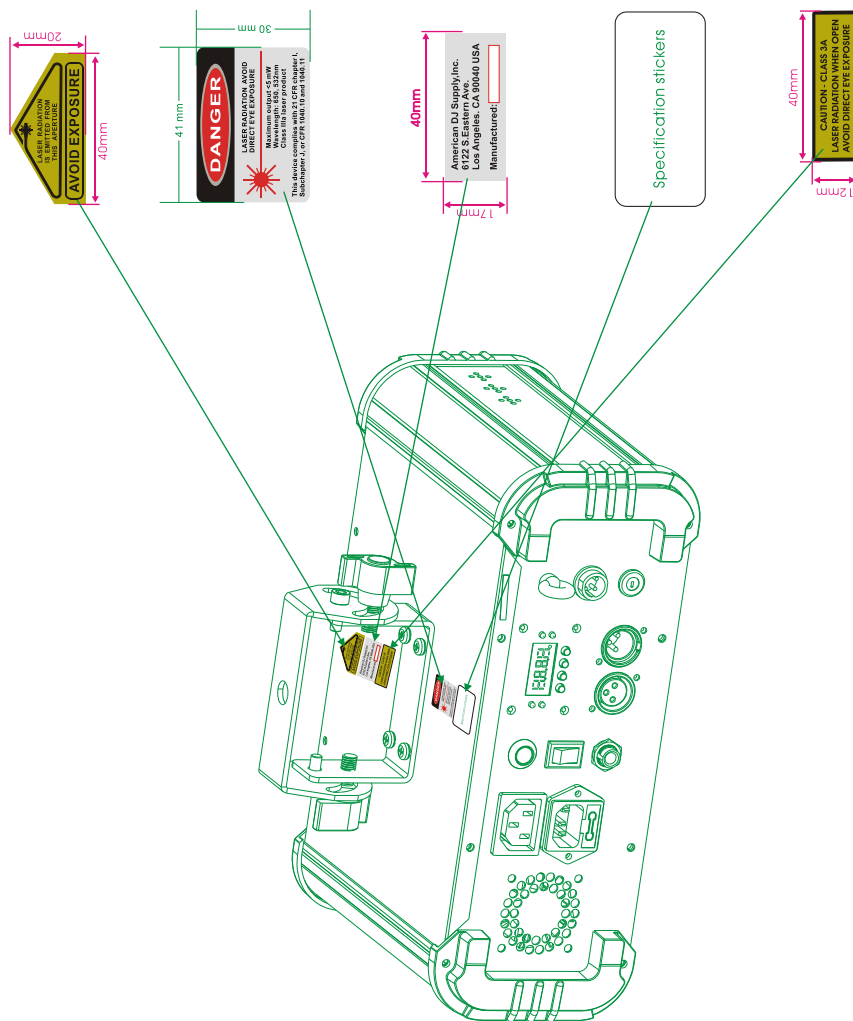
**Never** open the laser housing. The high power laser inside the protective housing can start fires, burn skin, or cause eye injury.

**Never** leave this device running unattended.

The operation of a class 3R laser show is controlled by a skilled and well-trained operator. The safety data included in this manual.

The legal requirements for using laser effects vary from country to country. The user is responsible for the requirements at the location/country of use.

Always use proper lighting safety cables and avoid laser effects overhead.



**Power Supply:** The American DJ® Diversa Ray has a power voltage switch, which will auto sense the voltage and switch into the power source. With this switch the unit can handle the correct power voltage, this unit can be used in any country.

**DMX-512:** DMX is short for Digital Multiplex. It is a communication protocol used by most lighting and control systems. A DMX controller sends DMX data instructions to the fixtures. DMX data is sent as serial data that is received by the fixtures via the DATA "IN" and DATA "OUT" XLR connectors. Most fixtures (most controllers only have a DATA "IN" connector).

**DMX Linking:** DMX is a language allowing different manufacturers to be linked together. To ensure proper DMX data transmission, all fixtures try to use the shortest cable length. DMX fixtures are connected in a DMX line. DMX addressing. For example; a fixture may be placed anywhere in a DMX line, or anywhere in the middle. Therefore, the controller could be the last fixture in the line. If a fixture is assigned a DMX address of 1, the DMX controller is assigned to address 1 to that unit, no matter how many fixtures are in the DMX chain.

### Data Cable (DMX Cable) Requirements

**Operation):** The Diversa Ray can be controlled electronically using the controls on the rear panel. The Diversa Ray is a nine channel DMX controller. The Diversa Ray and your DMX controller require a approximately 512 110 Ohm Data cable for data input and output (Figure 1). We recommend Accu-Cable cables. If you are making your own cable, you should 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 connectors at either end of the cable. Also remember

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.

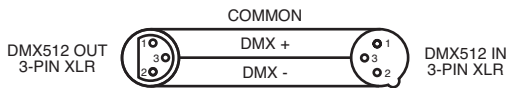


Figure 2

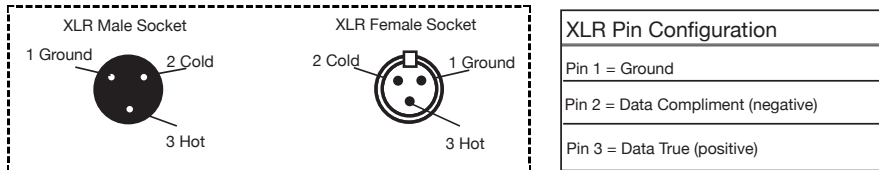


Figure 3

**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.

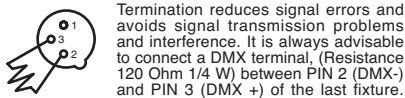
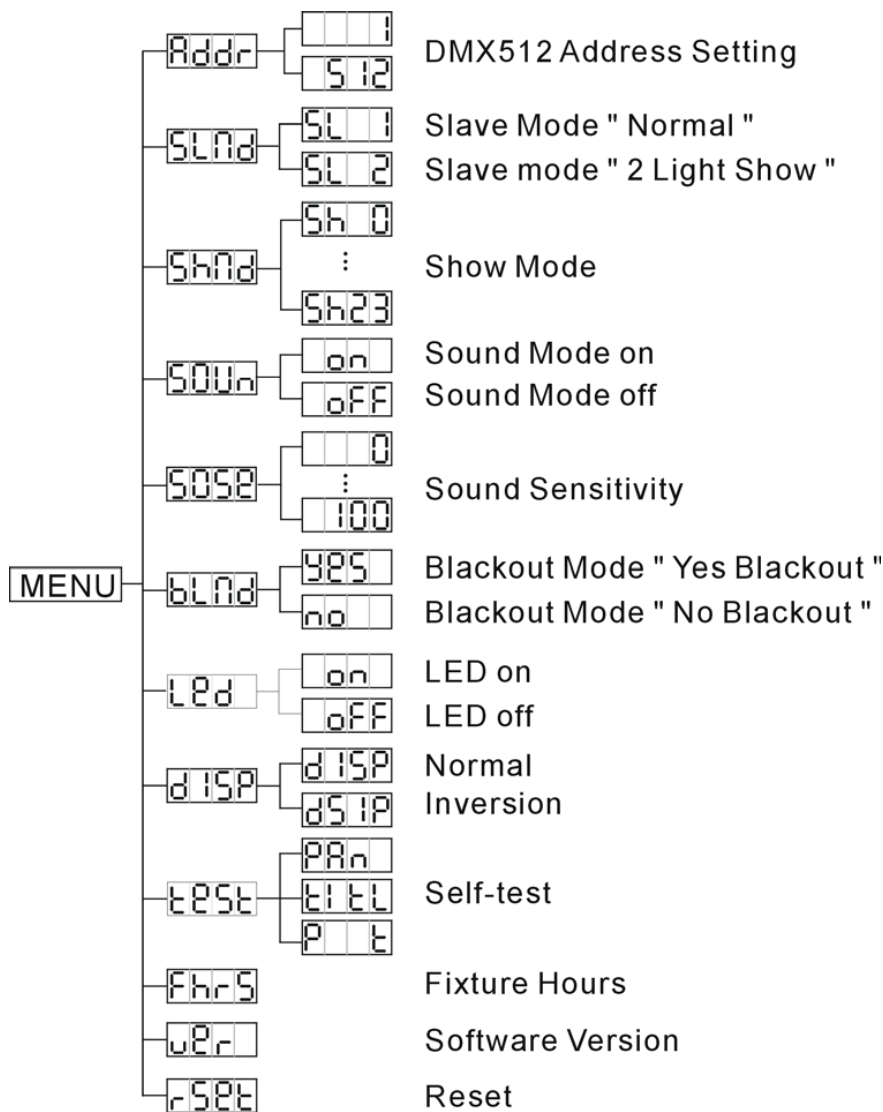


Figure 4

**5-Pin XLR DMX Connectors.** Some r 512 data cables for DATA transmission fixtures may be implemented in a 3-pin D dard 5-pin data cables in to a 3-pin line a these adaptors are readily available at m below details a proper cable conversion.

3-Pin XLR to 5-Pin XLR C	
Conductor	3-Pin XLR Female
Ground/Shield	Pin 1
Data Compliment (- signal)	Pin 2
Data True (+ signal)	Pin 3
Not Used	
Not Used	



## ADDR - DMX Address Setting.

1. Tap the either the MENU, UP, or DOWN button until "ADDR" is displayed, press ENTER.

2. The current address will now be displayed. Press the UP or DOWN buttons to find the desired address. Press ENTER to set your desired DMX address.

## SLND - This will let you set unit as 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 the desired slave mode is displayed, press ENTER to confirm.

## SHND: SH 0 - SH 23 - Show Mode. This can run with or without sound active.

1. Press the MENU button until "SHND" is displayed, press ENTER.

2. "SH X" will now be displayed, "X" represents the show mode number 0-23. Shows 1-23 are preprogrammed show modes. Press the UP or DOWN buttons to select the desired show mode.

3. Press ENTER to confirm, and then press the UP or DOWN buttons for at least 3 seconds to activate. To exit the show mode menu, press the MENU button. When show mode is active, you can change the show without have to go through the menu.

## SOUND - Sound Active mode.

1. Tap the MENU button until "SOUND" 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.



“OFF” to deactivate sound active mode.

3. Press ENTER to confirm.

## **SOSE - Sound sensitivity control.**

1. Press the MENU button until “SOSE” is displayed, press ENTER.
2. The display will show a number between 0-100. Press the UP or DOWN buttons to adjust the sound sensitivity. 0 being the least sensitive and 100 the most sensitive.
3. Press the ENTER button to confirm. To exit without making any adjustments press the MENU button.

## **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.

## **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. To make the display reappear, press and hold the MENU button for at least 5 secs.
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 again. Press ENTER to confirm.

## **TEST - This function will allow you to test all the functions.**

1. Press the MENU button until “TEST” is displayed, press ENTER.
2. Either “PAN”, “TILT” or “P.T.” will be displayed. Press the UP or DOWN buttons to scroll to the function you would like to test. Press ENTER. The function will now run a self test. Press ENTER to exit.

## **FHRS - With this function you can set the fixture to run for a set amount of time.**

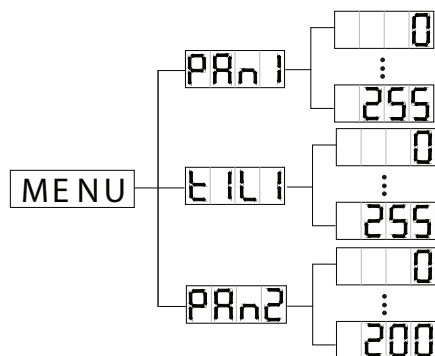
1. Tap the MENU button until “FHRS” is displayed, press ENTER.
2. The display shows the running time. Press the UP or DOWN buttons to set the time. Press ENTER to exit.

## **VER - With this function you can set the fixture to vibrate.**

1. Tap the MENU button until “VER” is displayed, press ENTER.
2. The display will now display the vibration level. Press the UP or DOWN buttons to set the level. Press ENTER to exit.

## **RSET - Use this function to reset the fixture.**

1. Tap the MENU button until “RSET” is displayed, press ENTER.
2. The fixture will now reset, and the display will show the reset status.



To enter the Pan/Tilt Submenu, press the ENTER button for at least 5 seconds. This submenu allows you to adjust the motor so that the laser centered and is projected perfectly.

### PAN 1 - In this submenu you can fine adjust the Pan.

1. Press the ENTER button for at least 5 seconds.
2. Use the UP and DOWN buttons to make your adjustments, and then press ENTER to confirm. Press the MENU button to exit without making changes.

### TIL 1 - In this submenu you can fine adjust the Tilt.

1. Press the ENTER button for at least 5 seconds.
2. Use the UP and DOWN buttons to make your adjustments, and then press ENTER to confirm. Press the MENU button to exit without making changes.

### PAN 2 - In this submenu you can fine adjust the Pan.

1. Press the ENTER button for at least 5 seconds.
2. Use the UP and DOWN buttons to make your adjustments, and then press ENTER to confirm. Press the MENU button to exit without making changes.

**CAUTION IMPORTANT!** When installing that it is mounted in a manner that prevents looking directly into the beam, and to the audience.

**Operating Modes:** The Diversa Ray offers different modes. In each mode you can operate alone fixture or in a master/slave configuration will detail the differences in the operation.

- **Sound Active mode -**

The fixture will react to sound, chasing the sound.

- **Show mode -**

The fixture will run one of four shows that are pre-programmed.

- **DMX control mode -**

This function will allow you to control the fixture with a standard DMX-512 controller or a DMX Designer.™

**Master-Slave Operation** This function allows you to connect multiple units together and operate without a controller. In Master-Slave operation one unit is designated as the Master and the others will react to the control signals from the Master. The Master can act as a Master or as a Slave.

1. Using approved DMX data cables, daisy chain the units together via the XLR connector on the rear of the unit. The Male XLR connector is the input and the Female XLR connector is the output. The first unit in the chain is the Master and the last unit in the chain is the Slave. XLR connector only - The last unit in the chain is the Slave. XLR connector only. For longer cable runs, use a DMX extender at the last fixture.
2. On the Master unit find your desired mode and press the ENTER button.
3. On the slave units tap the MENU button to enter the menu, and Press ENTER. Choose the mode you want to press ENTER. Please see page 12 for more details.
4. The slave units will now follow the Master unit.

**Universal DMX Control:** This function allows you to use a universal DMX-512 controller to control the fixture.



## Diversa Ray

## Operation

dimmer and strobe. A DMX controller allows you to create unique programs tailored to your individual needs.

1. The Diversa Ray is a nine channel DMX fixture. See pages 18-19 for detailed description of the DMX values and traits.
2. To control your fixture in DMX mode, follow the set-up procedures on pages 8-10 as well as the set-up specifications that are included with your DMX controller.
3. Use the controller's faders to control the various DMX fixture traits.
4. This will allow you to create your own programs.
5. Follow the instruction on page 12 to set the DMX address.
6. For longer cable runs (more than a 100 feet) use a terminator on the last fixture.
7. 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.

1. Press the MENU button until "SOUN" is displayed, and press ENTER. Press the UP or DOWN buttons so that "ON" is displayed and press ENTER. The unit is now sound active.  
See page 13 for sound sensitivity adjustment.
2. The optional *UC3 Controller* (not included) may be used to control different functions including blackout.

**Show Mode:** In this mode you can choose 1 of 23 shows to run.

1. Tap the MENU button until "SHOW" is displayed, and press ENTER.
2. Tap the UP or DOWN buttons until you find your desired show, and press ENTER then press and hold MENU for 3 seconds to confirm. See page 12 for more info.
3. The optional *UC3 Controller* (not included) may be used to control different functions including blackout.

## Diversa Ray

Channel	Value	
1	0 - 7 8 - 255	
2	0 - 7 8 - 15 16 - 131 132 - 247 248 - 255	LAS DO
3	0 - 11 12 - 23 24 - 34 35 - 46 47 - 58 59 - 69 70 - 81 82 - 93 94 - 104 105 - 116 117 - 127 128 - 139 140 - 151 152 - 162 163 - 174 175 - 186 187 - 197 198 - 209 210 - 221 222 - 232 233 - 244 245 - 255	

## Diversa Ray

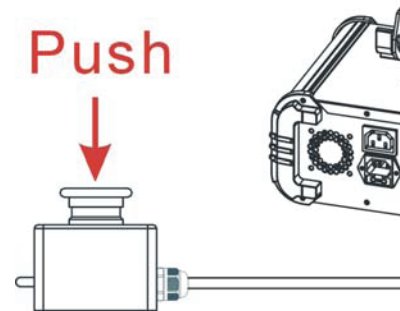
## UC3 Control

Stand By	Blackout the unit		
Function	Dot on line or discontinuous line effect	Show 1~23	Pattern Selection(22 patterns)
Mode	Sound (LED OFF)	Sound (LED ON)	Position/Latch (LED Blinking)

Diversa Ray		DMX Traits
Channel	Value	Function
4	0 - 9	GREEN LASER MOVEMENT
	10 - 120	NO MOVEMENT
	121 - 134	LEFT TO RIGHT FAST - SLOW
	135 - 245	NO MOVEMENT
	246 - 255	UP & DOWN SLOW - FAST
5	0 - 9	RED LASER ROTATION
	10 - 120	NO ROTATION
	121 - 134	COUNTER CLOCKWISE ROTATION
	135 - 245	FAST - SLOW
	246 - 255	NO ROTATION
6	0 - 127	RED LASER ZOOM
	128 - 255	ZOOMING MAX - MIN. ZOOMING MIN. - MAX SLOW - FAST
7	0 - 127	PRISM
	128 - 255	PRISM OFF PRISM ON
8	0 - 9	PRISM ROTATION
	10 - 119	NO ROTATION
	120 - 137	COUNTER CLOCKWISE ROTATION
	138 - 245	SLOW - FAST
	246 - 255	NO ROTATION
9	0 - 127	RASTER
	128 - 255	RASTER OFF RASTER ON

## Diversa Ray

This emergency feature lets you instantly deactivate the emergency feature you must first turn the keyhole and turn it to the “On” position. If an emergency situation arises and the push the knob.



To return to normal working order, rotate the key to the “Off” position and then back to the “On” position.

## Diversa Ray

## 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.

## Diversa Ray

## 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.

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). In heavy use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp beam output.

## Diversa Ray

## Trouble Shooting

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

### ***No light output from the unit;***

1. Be sure the external fuse has not blown. The fuse is located on the rear panel of the unit.
2. Be sure the fuse holder is completely and properly seated.

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

1. 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.

## Diversa Ray

### MANUFACTURER'S LIMITED WARRANTY

A. American DJ, Inc. hereby warrants, to the original purchaser, that all American DJ Audio products to be free of manufacturing defects in material and workmanship for a period from the date of purchase (see specific warranty periods for each product). This warranty is valid only if the product is purchased within the United States and its territories. It is the owner's responsibility to establish a chain of ownership and acceptable evidence, at the time service is sought.

B. For warranty service you must obtain a Return Merchandise Authorization (RMA) by sending back the product. Contact American DJ, Inc. for more information. We will send the product only to the American DJ, Inc. factory. All shipping charges for requested repairs or service (including parts replacement) will be the responsibility of American DJ, Inc. will pay return shipping charges only to the United States. If the entire instrument is sent, it must be shipped in its original container and should be shipped with the product. If any accessories are included, they should be shipped with the product. Inc. shall have no liability whatsoever for loss of or damage to the product or safe return thereof.

C. This warranty is void if the serial number has been altered, modified in any manner which American DJ, Inc. concludes that the product is not of the product; if the product has been repaired or serviced by anyone other than American DJ, Inc. factory unless prior written authorization was issued to the factory. If the product is damaged because not properly maintained as per the instructions, this warranty is void.

D. This is not a service contract, and this warranty does not include periodic check-up. During the period specified above, American DJ, Inc. will provide parts at its expense with new or refurbished parts, and service and repair labor by reason of defects in material or workmanship of American DJ, Inc. under this warranty shall be limited to the cost of the product, including parts, at the sole discretion of American DJ, Inc. If the product was manufactured after January 1, 1990, and before January 1, 1991, the warranty shall be limited to the cost of the product.

E. American DJ, Inc. reserves the right to make changes to its products without any obligation to include these changes in the warranty. No warranty, whether expressed or implied, shall apply to the accessory supplied with products described above. Except as otherwise provided by law, all implied warranties made by American DJ, Inc. in connection with the sale of its products, including warranties of merchantability or fitness, are limited in duration to the period specified above. And no warranties, whether expressed or implied, shall apply to this product after said period has expired. The sole remedy shall be such repair or replacement as is expedient in the circumstances shall American DJ, Inc. be liable for any loss or damage arising out of the use of, or inability to use, this product.

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

### MANUFACTURER'S LIMITED WARRANTY PERIODS:

- All American Audio Products = 1-year (365 day) Limited Warranty
- All American Audio V-Plus Series Amplifiers = 3-year (1095 day) Limited Warranty
- American DJ Lighting and American DJ Branded Products (Such as: Special Effect Lighting, Intelligent Lighting, UV Light, Laser Light, Mirror Balls, Par Cans, Trussing, Lighting Stands, and Star Tec Series)
- American DJ Laser Products and Star Tec Products = 9-year (3285 day) Limited Warranty
- American DJ L.E.D. Products = 3-year (1095 day) Limited Warranty

**Model: Diversa Ray**

<b>Voltage:</b>	100V ~ 240V 50~60Hz
<b>Lasers:</b>	30mW Green Diode /80mW Red Diode
<b>Power Consumption:</b>	32W
<b>Dimensions:</b>	12.5”(L) x 8.5”(W) x 7.5”(H) 316mm x 213mm x 193mm
<b>Colors:</b>	Green & Red
<b>Weight:</b>	9 Lbs. / 4 kgs.
<b>Fuse:</b>	1 Amp
<b>Duty Cycle:</b>	None
<b>DMX:</b>	9 DMX Channels
<b>Sound Active:</b>	Yes
<b>Working Position:</b>	Any Safe, Secure Position
<b>Warranty:</b>	90 Days

**Auto Sensing Voltage:** This fixture contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source.

**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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