

# American DJ® **LED TRISPOT**



## ***User Instructions***

American DJ®  
6122 S. Eastern Ave.  
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www.americandj.com

10/08

## **LED Trispot**

## **Introduction**

**Unpacking:** Thank you for purchasing the LED Trispot by American DJ®. Every LED Trispot 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 LED Trispot is part of American DJ's continuing pursuit for creating high quality affordable intelligent fixtures. The LED Trispot is a simple DMX intelligent LED effect. This fixture is light weight and compact which makes it a great piece for mobile DJ's and clubs. This unit can be used as a stand alone, or a sound-active mode. The unit can also 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.**

## LED TriSpot

## 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.

## LED TriSpot

## Features

- Multi-Colors
- Color Strobe
- Electronic Dimming 0-100%
- Built in Microphone
- DMX-512 protocol
- Uses 3 or 5 DMX Channels
- Daisy Chain Units Together in DMX Mode

## LED TriSpot

## Warranty Registration

The LED TriSpot carries a 1 year (365 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.

## LED TriSpot

## 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 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 10 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.

## LED Trispot

## 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® LED Trispot. The American DJ® LED Trispot is a 100v ~ 220v unit. Because of voltage setup of the unit you do not have to worry about wall output voltage. This unit is compatible with all wall outputs.

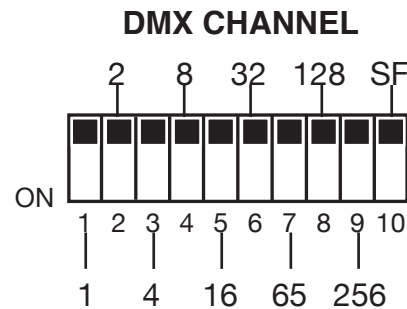
**DMX-512:** DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture 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.

**Dip-switches in DMX mode:** This unit uses dip switches to assign a DMX address. Each dip switch represents a binary value.

- Dip Switch 1 address equals 1
- Dip Switch 2 address equals 2
- Dip Switch 3 address equals 4
- Dip Switch 4 address equals 8
- Dip Switch 5 address equals 16
- Dip Switch 6 address equals 32
- Dip Switch 7 address equals 64
- Dip Switch 8 address equals 128
- Dip Switch 9 address equals 256

*Dipswitch 10 - Some units omit dipswitch 10. When a unit does include dipswitch 10 it is usually used for special functions such as sound activation.*



## LED Trispot

## Set Up

Each dip switch has a preset value. A specific DMX address is set by combining the dip switches that sum your desired value. For example: To achieve a DMX address of 21, combine dip switches 1, 3, and 5. Sense dip switch 1 has a value of 1, dip switch 3 has a value of 4, and dip switch 5 has a value of 16, the combination of the create a DMX value of 21.

Set DMX address 21:  
Dip-switches # 1 = 1  
3 = 4  
5 = 16  
= 21

Set DMX address 201:  
Dip-switches # 1 = 1  
4 = 8  
7 = 64  
8 = 128  
= 201

### Data Cable (DMX Cable) Requirements (For DMX Operation):

The LED Trispot can be controlled via DMX-512 protocol. The LED Trispot can be either a three or five channel DMX unit. The DMX address is set on the back panel of the LED Trispot. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure 1). If you are making your own cables, be sure to use standard two conductor shielded cable (This cable may be purchased at almost all pro 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 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.

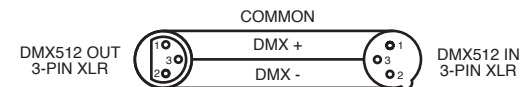


Figure 2

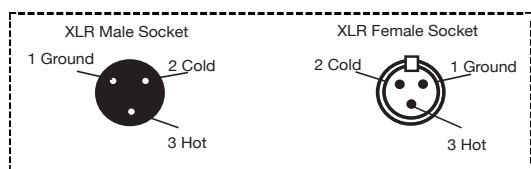


Figure 3

| XLR Pin Configuration |                            |
|-----------------------|----------------------------|
| Pin 1 =               | Ground                     |
| Pin 2 =               | Data Compliment (negative) |
| Pin 3 =               | Data True (positive)       |

**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, (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 XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors 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          |

### Operating Modes:

#### Sound Active Mode:

In this mode the LED Trispot will react to sound, and chase through the different colors.

1. Plug the fixture in and put dipswitch #10 in the “ON” postion.
2. The fixture will now change via sound.

#### 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 dipswitches 1-9 must be in the “Off” position.
3. On the slave units set any dipswitch to the “On” position.
4. The slave units will now follow the Master unit.

#### 4-Light Show (Using Master/Slave Operation):

This function will allow you to run a 4-Light Show either from the Master Unit or from the first slave unit. Follow step 1 in Master/Slave Operation and then follow the instructions below to set up the rest of the show.

##### Slave units follow the first Slave unit:

1. On the Master unit set all dipswitches to the “Off” postion.
2. On the Slave units set any dipswitches to the “On” postion, except dipswitch 10. Dipswitch 10 must stay in the “Off” postion.
3. Now all connected units except the master will follow the first slave unit.

##### Slave units follow the Master unit:

1. On the Master unit set dipswitch 10 to the “On” postion.
2. On the Slave units set any dipswitches to the “On” postion,

**LED Trispot****Operating Instructions**

except dipswitch 10. Dipswitch 10 must stay in the “Off” position.

- Now all connected units will follow the Master unit.

**DMX Mode:**

This unit can be a three channel or five channel DMX unit. Operating through a DMX controller gives the user the freedom to create their own programs tailored to their own individual needs.

- This function will allow you to control each individual fixture’s traits with a standard DMX 512 controller.
- The LED Trispot can use either three DMX channels or five DMX channels. Please see page 9 for the DMX values and traits.
- To select the three channel mode put dipswitch #10 in the “On” position. To select the five channel mode put dipswitch #10 in the “Off” position.
- Set your desired DMX address using dipswitches 1-9.
- Finally, plug in the fixture via the XLR connections to any standard DMX controller.
- For help operating in DMX mode consult the manual included with your DMX controller.
- Please see the next page for DMX values and traits.

**LED Trispot™****DMX Values & Traits - 3 Channels**

| Channel | Value   | Function           |
|---------|---------|--------------------|
| 1       | 1 - 255 | RED<br>0% - 100%   |
| 2       | 1 - 255 | GREEN<br>0% - 100% |
| 3       | 1 - 255 | BLUE<br>0% - 100%  |

**LED Trispot™****DMX Values & Traits - 5 Channels**

| Channel | Value              | Function                      |
|---------|--------------------|-------------------------------|
| 1       | 1 - 255            | RED<br>0% - 100%              |
| 2       | 1 - 255            | GREEN<br>0% - 100%            |
| 3       | 1 - 255            | BLUE<br>0% - 100%             |
| 4       | 0 - 15<br>16 - 255 | STROBE<br>OPEN<br>SLOW - FAST |
| 5       | 1 - 255            | MASTER DIMMER<br>0% - 100%    |

**LED Trispot****UC3 Control**

|          |  |                   |
|----------|--|-------------------|
| Stand By | Blackout the unit  |                   |
| Function | 1. Synchronous Strobe<br>2. Asynchronous Strobe<br>3. Sound Strobe | Show speed<br>1-3 |
| Mode     | Sound (LED OFF)  | LED ON            |

## LED Trispot

## 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).

## LED Trispot

## 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.  
1-800-322-6337*

## LED Trispot

## 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, Strobos, 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)



**Model: LED Trispot**SPECIFICATIONS:

|                    |   |
|--------------------|---|
| LED:               | 3W 3-in-1 RGB                                       |
| Working Position:  | Any safe working position                           |
| Voltage:           | 100V~240V AC 50/60Hz                                |
| Power Consumption: | 9 Watts   |
| Fuse:              | 1Amp  |
| Weight:            | 3lbs./ 1.2Kgs.                                      |
| Dimensions:        | 7.75" (L) x 5" (W) x 7.71" (H)<br>198 x 127 x 196mm |
| DMX Channels:      | 3 & 5 DMX Channels                                  |
| Colors:            | RGB Color Mixing                                    |
| 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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