

# American DJ®



## Color 150/DMX™

## Introduction

Thank you for purchasing the Color 150/DMX™ by American DJ®. Every Color 150/DMX™ 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 unit for any damage and be sure all equipment necessary to operate the system 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 the unit to your dealer without first contacting customer support.

## Color 150/DMX™

## Customer Support

### 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) 582-2610

E-mail: [support@americandj.com](mailto:support@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 manufacturer's warranty. In the unlikely event your unit may require service please contact your nearest American DJ® dealer.

**PLEASE do not discard the shipping carton in the trash. Please recycle when ever possible.**

**Safety Issues:** This unit may blow a fuse if the maximum allotted load of 5 amps is reached. If the fuse needs replacement, always replace the fuse with same exact type that was remove, unless otherwise instructed by an authorized American DJ® service technician. Use of a different type fuse from that which is recommended may cause fire or electric shock and will void the manufacturer's warranty.

**Color  
150  
DMX**

**American DJ®**

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## Color 150/DMX™

## 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.

## Color 150/DMX™

## Precautions

- Be sure that the local power outlet match that of the required voltage for 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.
- 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 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.
- Never operate this unit when it's cover is removed.
- To reduce the risk of electrical shock or fire, do not expose this unit rain or moisture
- 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-Cord Protection - 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 cords at plugs, convenience receptacles, and the point where they exit from the fixture.
- Cleaning - The fixture should be cleaned only as recommended by the manufacturer.
- The fixture should be serviced by qualified service personnel when:
  - A. The power 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 fixture does not appear to operate normally or exhibits a marked change in performance.

## Color 150/DMX™

## Quick Start

### Master/Slave Quick Start Instructions

Connect up to 16 units together via XLR cables. Follow the dip switch chart on page 11 for master/slave settings. The master unit will run the slaves to programs built-in to the master unit via an internal microphone. Plug in all units. When the Color 150/DMX™ is first turned on, it will run through an internal self test where it resets to their zero position. After the self test the units will react to sound, and chase to the built in programs.

## Color 150/DMX™

## Features

The Color 150/DMX™ features a bright 150 watt halogen lamp with a 500 hour life. The color wheel features seven brilliant colors plus white. The fixture includes a built-in microphone with adjustable sensitivity, this allows the fixture to automatically run to sound without the need of an external controller. The Color 150/DMX™ may also be set-up to run in a Master-Slave mode when used in multiples, up to 16 units. When used in the Master-Slave mode, the unit will chase to several internal programs. The Color 150/DMX™ can also be controlled via a standard DMX controller such as the American DJ® Show Designer™ or the American DJ® DMX Operator™ giving the user independent control over the color wheel. The units may also be set to run in to audio in DMX mode.

- ZB-JCR/H5 15V/150W, 500Hr Lamp.
- DMX-512 Compatible.
- Stepper motor for smooth color change.
- 7 colors plus white.
- Master/Slave Operation.
- Sound Active.
- Sleep mode
- Optional MINI/C™ controller, for blackout control.

## Color 150/DMX™

## Halogen Lamp Warning

This fixture is fitted with a halogen lamp which is highly susceptible to damage if improperly handled. Never touch the lamp with your bare fingers as the oil from your hands will shorten lamp life. Also, never move the fixture until the lamp has had ample time to cool. Remember, lamps are not covered under warranty conditions.

### Power Supply:

Before plugging your unit in be sure the source voltage in your area matches the required voltage for your American Dj® Color 150/DMX.™ The American Dj® Color 150/DMX™ is available in a 120v and 220v version. Because line voltage may vary from venue to venue, you should be sure to plug your unit into a matching wall outlet before attempting to operate you fixture.

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

**Only and Master-Slave):** The Color 150/DMX can be controlled via DMX-512 protocol. The American Dj® Color 150/DMX™ is a single channel DMX unit. The DMX address is set on the rear panel of the Color 150/DMX.™ 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 figure 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.

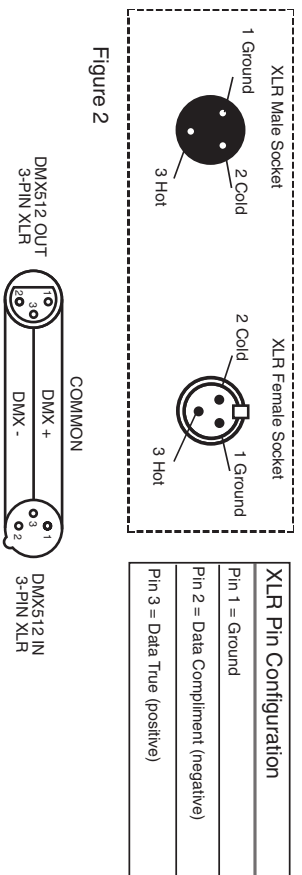


Figure 2



Figure 3

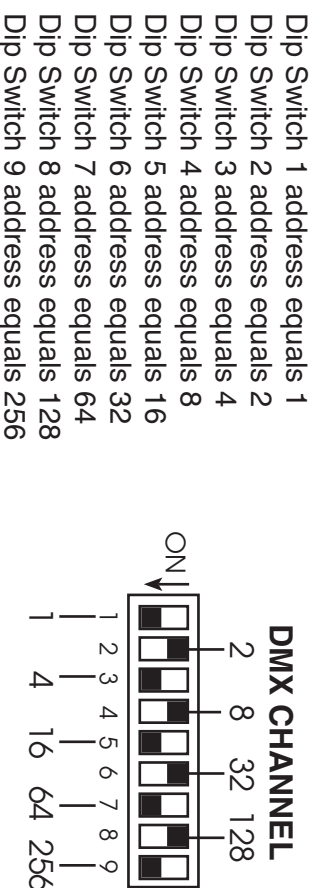
**Special Note: Line Termination.** When longer runs of cable are used, you may need to use a terminator on the last unit to avoid erratic behavior. A terminator is a 90-120 ohm 1/4 watt resistor which is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This unit is inserted 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 terminator (resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX+) of the last fixture.

Figure 4

DMX is short for Digital Multiplex. This is a universal DMX binary language used as a form of communication between intelligent fixtures. Each dip switch represents a binary value.



Each dip switch has a preset value, a desired DMX address is set by combining the dip switches that will create 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



## Operating Modes:

You can use the Color 150/DMX™ in three ways:

- **Stand-Alone mode** - The unit will react to sound, chasing through the several built in programs. You can also use the optional MINI/C™ remote control to blackout the units.
- **Master/Slave mode** - Allows you to daisy chain up to 16 fixtures together for a synchronized light show. The fixtures will react to sound chasing through several built in programs.
- **DMX control mode** - This function will allow you to control each fixtures DMX traits with a standard DMX 512 controller such as the American DJ® Show Designer™ or DMX Operator.™

**NOTE:** Stand-Alone and Master/Slave operation require a sound source to operate properly. The units will blackout to conserve lamp life when inactive for more than 60 seconds. A single sound source will reactivate the units.

For best results use fog or special effects smoke to enhance the beams projections.

## Stand Alone Mode:

1. To operate as a stand alone unit, via its internal chases and microphone, turn all dip switches off (see Page 11).
2. Adjust the sensitivity knob on the bottom of the unit so the unit will react to sound. Turning the sensitivity knob in a clockwise direction will make the fixture more sensitive to sound, turning the sensitivity knob in counter-clockwise direction will make the fixture less sensitive to sound.

## Master-Slave Operation:

1. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling unit's signal. Any unit can act as a Master or as a Slave.
2. Daisy chain your fixtures via the XLR connectors on the rear of the fixtures with standard XLR microphone cables. Remember that the Male XLR connector is the input and the Female XLR connector is the output.
3. The first unit in the chain (master) will only use the female XLR connector. The last unit in the chain will only use the male XLR connector.

4. Turn all the master units dip switches to the off position and follow the chart on page 11 for all slave dip switch settings. Note only one fixture may use the master units dip switch settings.
5. After all the units settings have been set and are plugged in, adjust the sensitivity knob on the bottom of the master unit to make them react to sound.
6. You can also use the optional MINI/C™ Remote Control. If you want to use the optional remote control, connect the MINI/C™ controller to the first fixture in the line (master).

**Note:** The remote control only operates in Stand-Alone and Master/Slave modes. If the remote is connected in DMX mode it will not function. If the units do not receive an active DMX signal, the units will automatically react to sound in the Master/Slave mode.

## DMX Mode:

The Color 150/DMX™ is completely DMX-512 compatible. DMX allows a programmer the ability to create custom programs when using any universal DMX controller such as the American DJ® Show Designer™ or the American DJ® DMX Operator.™

1. To operate your fixtures in DMX mode please follow the DMX set-up procedures beginning on page 5.
2. After all the proper set-up procedures have been completed, follow the standard DMX binary code on page 6 to assign a unique DMX address to each individual fixture. A dip switch chart has been included in this manual on page 12. Please note the dip switch guide on page 12 is set up as a guide only. Please follow the instructions included with your DMX controller for proper DMX addressing.
3. The fixture uses one DMX channel to operate in DMX mode, this channel control color change.
4. For further information on operating in DMX mode please refer to your controller's owners manual.

## Color 150/DMX™

## Optional MINI/C™ Remote

The MINI/C™ controller may be purchased separately allowing you to control the main unit, and any others connected to it, while it is in stand alone mode. You can set the unit to blackout. If you have more than one unit, make sure the remote control is plugged into the first unit in the daisy chain. The remote control will not have any effect if the unit is in DMX mode. When the unit is in blackout mode, the light will come on next to the blackout button.

The Color 150/DMX™ may be controlled by a wide range of controllers; ie. Show Designer,™ DMX Operator,™ Scene Setter™ or by the MINI/C™ basic controller.

### MINI/C™ features:



## Color 150/DMX™

## 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. Use a brush to wipe down the fan grill.
3. Clean the external optics with glass cleaner and a soft cloth every 20 days. Situation may vary. If used heavily in clubs with lots of fog, cleaning may be required more often.
4. Clean the internal optics with glass cleaner and a soft cloth every 30-60 days.
5. Always be sure to dry all parts completely before plugging the unit in.

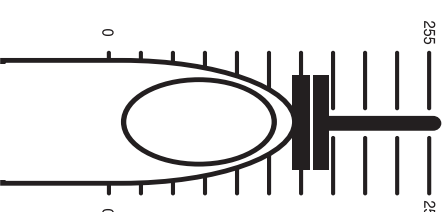
Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

## Color 150/DMX™

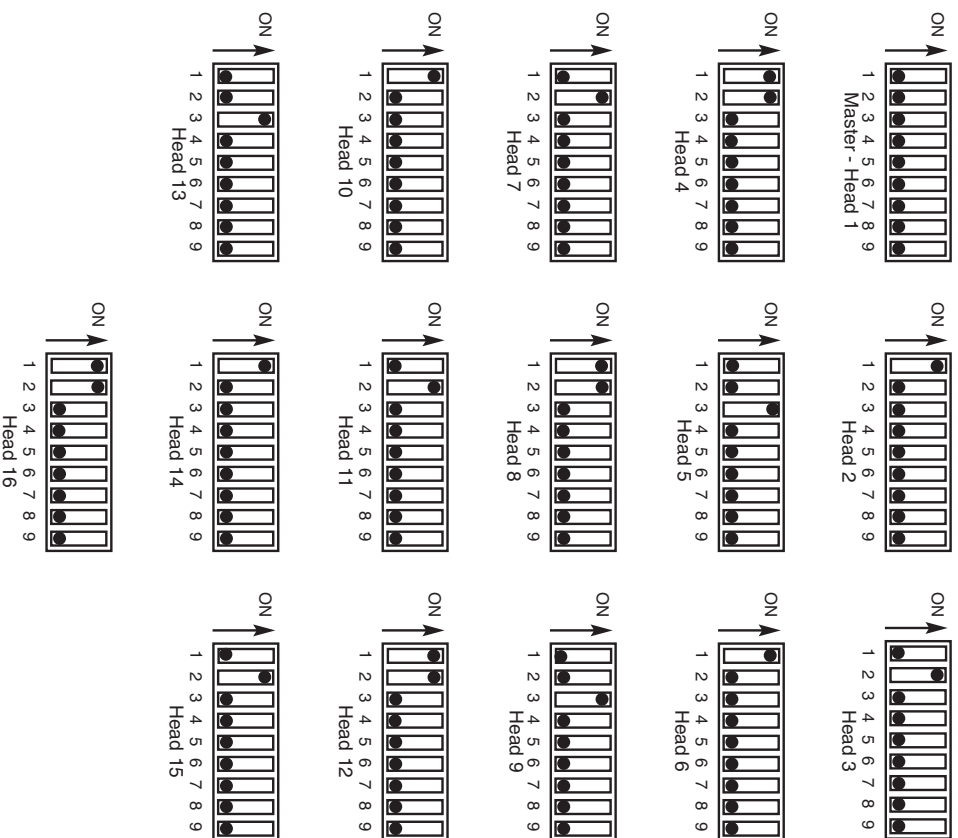
## DMX Traits

The fixture has been designed with a special “Sound-Active” DMX feature. When using this fixture with a DMX controller, you may activate the “Sound-Active” mode. This feature may prove useful when exact color combinations are not important or there is not enough time to program a complete show.

DMX Value:	Trait:
0-25	= Lamp Off
26-51	= White
52-77	= Red
78-103	= Blue
104-129	= Green
130-155	= Yellow
156-181	= Orange
182-207	= Pink
208-233	= Magenta
234-255	= Sound-Active Function



The following details the proper dip switch setting for Master-Slave operation. Please follow these setting when running four units in a Master-Slave configuration.



This chart details DMX dip switch setting for the first 16 units (beginning on DMX address one). This chart is designed as a guide only. Please follow standard binary DMX protocol as described on page 6 for proper dip switch settings beyond the sixteenth unit or for units not starting at DMX channel one. For the American DJ® DMX Operator™ setting please refer to the DMX Operator™ manual.



## Color 150/DMX™

## Warranty Registration

The Color 150/DMX™ carries a one year (365 days) limited warranty. We recommend you 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.

## Color 150/DMX™

## Fuse & Lamp Replacement

**Caution:** Always replace with the exact same type lamp and fuse, unless otherwise specified by an authorized American DJ® technician. Replace with anything other than the specified part can damage your unit and will void your manufactures warranty.

**Warning:** If after you have replaced the lamp or fuse and you continue to blow either one, STOP using the unit. Contact customer support for further instructions, you may have to return the unit for servicing. Continuing to use the unit may cause serious damage.

### Fuse Replacement:

Disconnect the unit's main power supply. Insert a standard flat head screw driver in to the fuse holder housing. Turn the screwdriver in counter-clockwise direction to remove the fuse holder. Remove the old fuse and discard it, replace the fuse with the same type. Insert the fuse holder back into it's housing and turn in clockwise direction to lock the holder in place.

### Lamp Replacement:

- Caution! Never open the unit while in use. Always disconnect the main power before attempting to replace the lamps. Allow the unit ample time to cool before replacing lamps
1. Be sure to follow the proper procedures when handling halogen bulbs. **Never touch the lamp with your bare fingers.**
  2. Locate the thumb screws that retaining the lamp cover to the fixture. Unscrew the retaining thumb screws to expose the lamp socket assemble.
  3. Gently remove and discard the old lamp.
  4. Insert the new lamp in the lamp/socket assembly and reassemble.

## Color 150/DMX™

## Trouble Shooting

Listed below are a few common problems users may encounter, with solutions. **Note:** The unit has been designed to shut the lamp down after 60 seconds of inactivity. This is a way of extending lamp life, be assured this is not a problem with the fixture. **If problems are not resolved; Contact American DJ® customer support for possible service options.**

### No light from the unit;

1. Be sure the 'Power On' (red) LED is lit and the fan is running. If not, there is no main power supply.
2. Be sure the fuse located on the rear panel is good.
3. If power is present but the lamp does not light, the lamp may need to be replaced.

### Unit not responding to DMX;

1. If the Green LED on the top of the unit is flashing, the unit is definitely receiving DMX.
2. Check the dip switch settings.
3. If the DMX LED is not lit, be sure 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.
4. If it is a bad connection, the Green LED may flash when cables are wiggled (but remember it may also be the unit sensing audio!).
5. If DMX connectors are fairly short, ordinary microphone cables may be used. For longer runs, this may cause data transmission problems (which will show up as random or incorrect movements) for best result, use proper balanced data transmission cable.
6. If your DMX controller has a polarity switch, be sure the switch is in the set to the proper position.
7. If the unit was in DMX "Sound-Active" mode, the unit must hear a beat to return to regular DMX mode.

### Unit does not respond to sound;

1. Be sure the unit is not in DMX mode (green LED off).
2. Tapping on the microphone, quiet or high pitched sounds may not activate the unit.
3. Be sure the audio sensitivity knob is turn in the full clockwise position (maximum sensitivity).



## Color 150/DMX™

### 1-YEAR LIMITED WARRANTY

- A. American DJ® hereby warrants, to the original purchaser, American DJ® products to be free of manufacturing defects in material and workmanship for a period of 1 year (365 days) from the date of purchase. 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, send the product only to the American DJ® 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® 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® 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® concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the American DJ® factory unless prior written authorization was issued to purchaser by American DJ®; 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® will replace defective parts at its expense, 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® 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® 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.
- F. 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® 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® be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.
- G. This warranty is the only written warranty applicable to American DJ® Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.
- H. Lamps are not covered under this warranty

## Technical Specifications:

**Model:** Color 150/DMX™

**Lamp:** 15v/150w JCR/H5 500 Hour

**Voltage:** 120V~60Hz

**Dimensions:** 8.3" x 8.8" x 5.3"

**Colors** 7 Color plus White

**Weight:** 7.5 Lbs

**Fuse:** 5 Amp AGC

**Duty Cycle:** Several Hours

**Sound Active:** Yes

**Cooling:** Fan Cooled

**DMX 512:** Yes

**Working Position:** Any Safe position

**Warranty:** 1 Year (365 days)

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