

American DJ® Color Shot



User Instructions

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Color Shot

Introduction

Unpacking: Thank you for purchasing the Color Shot by American DJ®. Every Color Shot 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 Color Shot is part of American DJ's continuing pursuit for creating high quality affordable intelligent fixtures. The Color Shot is a DMX intelligent LED strobe. This strobe 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 unit or in a master/slave configuration. It has three different operating modes; sound active, auto mode, or it can 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.eu for any comments or suggestions. Service Hours are Monday through Friday 9:00 a.m. to 5:00 p.m. Central European Time.

Voice: 0031 4554 68530

Fax: 0031 45 54 68599

E-mail: service@americandj.eu

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.

Color Shot

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.

Color Shot

Features

- Multi-Color Strobe
- Built in Microphone
- DMX-512 protocol
- Uses three DMX Channels

Color Shot

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 9 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.

Color Shot

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® Color Shot. The American DJ® Color Shot is available in a 120v and 220v version. Because line voltage may vary from venue to venue, you should be sure your unit voltages matches the wall outlet voltage before attempting to operate you fixture.

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used as a form of communication between intelligent fixtures and controllers. A DMX controller sends DMX data instructions from the controller to the fixture. DMX data is sent as serial data that travels from fixture to fixture via the DATA “IN” and DATA “OUT” XLR terminals located on all DMX fixtures (most controllers only have a DATA “OUT” terminal).

DMX Linking: DMX is a language allowing all makes and models of different manufactures to be linked together and operate from a single controller, as long as all fixtures and the controller are DMX compliant. To ensure proper DMX data transmission, when using several DMX fixtures try to use the shortest cable path possible. The order in which fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in a DMX line, at the beginning, at the end, or anywhere in the middle. When a fixture is assigned a DMX address of 1, the DMX controller knows to send DATA assigned to address 1 to that unit, no matter where it is located in the DMX chain.

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

The Color Shot can be controlled via DMX-512 protocol. The Color Shot is a three channel DMX unit. The DMX address is set on the back panel of the Color Shot. 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

Color Shot

Set Up

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.

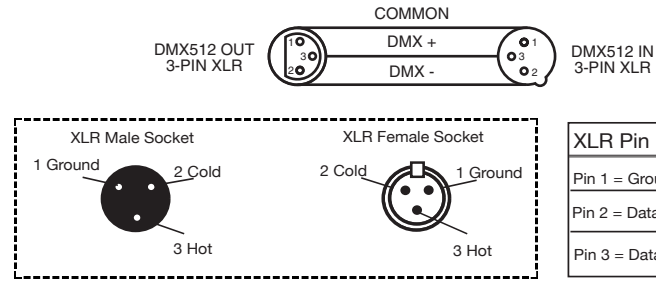


Figure 2

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 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:

You can use the Color Shot in three ways:

- Sound-Active mode - The unit will react to sound, chasing through the built in programs.
- Auto Mode - The unit will automatically chase through the different colors.
- 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™.

Sound Active Mode:

In this mode the Color Shot will react to sound, and chase through the different colors.

1. Plug the fixture in and put all dipswitches in the “Off” position.
2. You **have** to adjust both the speed and sound knobs the same for more or less sound sensitivity. The fixture will now change via sound.
3. To run a master/slave configuration:
 - Master - All dipswitches in the “Off” position.
 - Slaves - All slave units should have dipswitch #1 in the “On” position.

Auto Mode:

1. Plug the fixture in and put dipswitches # 10 in the “ON” position.
2. Adjust the speed by adjusting the speed control knob.
3. To run a master/slave configuration:
 - Master - Dipswitch #10 in the “On” position.
 - Slaves - All slave units should have dipswitch #1 in the “On” position.

DMX Mode:

Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights.

1. This function will allow you to control each individual fixture’s traits with a standard DMX 512 controller such as the Elation® Show Designer™ or the Elation® DMX Operator.™
2. The Color Shot uses three DMX channels to operate see page 8

for the DMX traits.

3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. Set the dipswitches to your desired DMX address. - Follow the set-up specifications that come with your DMX controller.

Channel	Value	Function
1	0 - 1 2 - 253 254 - 255	STROBE EFFECT LEDS OFF STROBE EFFECT SLOW → FAST LEDS ON
2	0 - 9 10 - 19 20 - 29 30 - 39 40 - 49 50 - 59 60 - 69 70 - 253 254 - 255	RGB MODES RED GREEN BLUE RED & GREEN RED & BLUE GREEN & BLUE RED, GREEN, & BLUE AUTO PROGRAM SLOW → FAST ALL ON
3	0 - 127 128 - 255	SOUND ACTIVE SOUND ACTIVE OFF SOUND ACTIVE ON

Note: Sound Active mode will only work when the strobe effect is active.

Color Shot

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).

Color Shot

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.
2. Turn both knobs all the way to the right.

*If problems are not resolved; Contact American DJ® for service.
0031 4554 685 30*

Model: Color ShotSPECIFICATIONS:

Working Position:	Any safe working position
Voltage:	230V
Power Draw:	0.88 Amps
Fuse:	3 Amps
Weight:	5lbs./ 2.2Kgs.
Dimensions:	11" (L) x 8.5" (W) x 6.5" (H) 27,5cm x 21,25cm x 16,25cm
Colors:	RGB Color Mixing
DMX Channels:	3 Channels
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.

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