

American DJ® FIRE BURST DMX™



User Instructions

American DJ®
4295 Charter Street
Los Angeles Ca. 90058
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Fire Burst DMX™

Introduction

Introduction:

Thank you for purchasing the Fire Burst DMX™ by American DJ®. The Fire Burst DMX™ produces a unique and realistic flame effect without the heat.

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 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) 582-2610

E-mail: 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.

Fire Burst DMX™

Unpacking

Unpacking: Every Fire Burst 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 units for any damage and be sure all accessories necessary to operate the system have 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 system to your dealer without first contacting customer support.

Fire Burst DMX™

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.

Fire Burst DMX™

Features

- Includes Built-In Hanging Yoke
- Easy Access Lamp Replacement
- Simulates Fire
- Long Life ZB-EFR 15v/150w Lamp
- Changable Gobo (3 different gobos included)

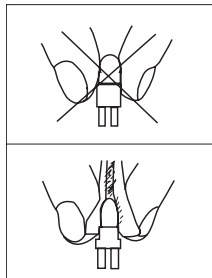
Fire Burst DMX™

Warranty Registration

The Fire Burst DMX™ carries a one year (365 days) 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. The R.A. number must be clearly written on the outside of the return package. A brief description of the problem as well as the R.A. number must also be written down on a piece of paper and included in the shipping container. If the unit is under warranty, you must provide a copy of your proof of purchase invoice. You may obtain a R.A. number by contacting customer support at (800) 322-6337.

Fire Burst DMX™

Halogen Lamp Precautions



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

Fire Burst DMX™

Operating Instructions

Operation: This fixture is designed to operate as a stand alone unit or be controlled by a DMX controller. The Fire Burst DMX™ was created to meet the demands of theatrical groups and production groups. The desire was to create a low cost unit with an incredible effect, without any strong flashing lights or special fog needs. This unit creates the effect of a blazing inferno. This fixture is ready to be plugged in right out of the box. When the unit is plugged into a matching power supply, the lamp will strike and the unit's internal effect wheel will immediately begin to turn.

Fire Burst DMX™

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 you have connected your unit into a wall outlet with a matching power supply.
2. Be sure the external breaker has not blown. The breaker is located on the rear panel.
3. Remove the lamp cover and be sure the lamp is seated in the socket properly. Occasionally lamps become loose during shipping, be sure the lamp is push in to the socket completely.

Power Supply: Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® Fire Burst DMX.™ The American DJ® Fire Burst DMX™ 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.

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 Fire Burst DMX™ can be controlled via DMX-512 protocol. The Fire Burst DMX™ is a two channel DMX unit. The DMX address is set using the dipswitches on the back panel of the unit. Your unit and your DMX controller require a standard 3-pin XLR connector for data input and data output (Figure



Figure 1

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 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.

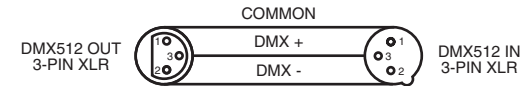


Figure 2

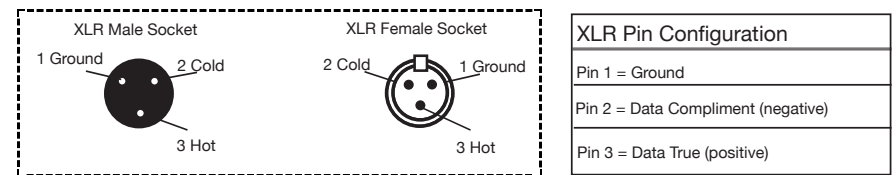


Figure 3

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 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		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use

Operating Modes: The Fire Burst DMX™ can operate in three different modes. This next section will detail the differences in the operating modes.

- **Stand alone mode -**

The unit will function on its own, with **No** reaction to sound.

- **Master/Slave mode -**

You can daisy chain up to 16 units together to get a synchronized light show without the need of an external controller. The units will function on their own, with **No** reaction to sound.

- **DMX control mode -**

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

Universal DMX Control: This function allows you to use a universal DMX-512 controller such as the Elation® DMX Operator™ or Elation® Show Designer™ to control the speed of the glass wheel and the dimmer.

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 Fire Burst DMX™ uses two DMX channels to operate; Channel 1 is dimming, and channel 2 is the speed of the internal glass wheel.
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller. - Follow the set-up specifications that come with your DMX controller.

Stand-Alone Operation: This mode allows a single unit or several units linked together, to run automatically, with **No** reaction to music. The speed of the internal glass, and the brightness, can be set directly on the unit. Note that these settings are made using the dipswitches on the back of the unit. Once the settings are made they can only be changed by physically adjusting the dipswitches on the unit. Be aware of this, if you plan on installing your unit in a permanent place, and you are not satisfied with your settings you will have to physically remove the unit and adjust the dipswitches. Please see the dipswitch traits on page 11.

Fire Burst DMX™

Operation

Master-Slave Operation (Sound Active): 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 standard XLR microphone 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. Follow the dipswitch chart on page 10.

Fire Burst DMX™

Changing the Gobo

This unit comes with a 53.4mm interchangeable gobo. Three different gobos are also included. Changing the gobo is a easy procedure. Follow the instructions below.

Caution! Never open the unit when in use. Always disconnect the main power before attempting to change the gobo. Caution! Make sure you have given the unit enough time to cool off, before doing this!

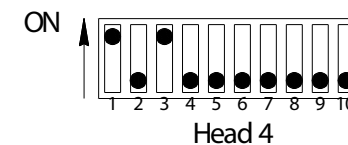
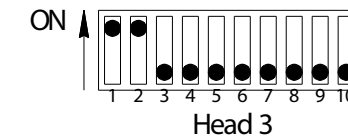
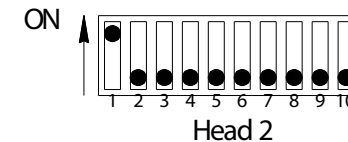
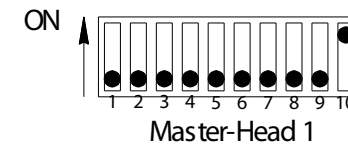
1. Unscrew the two thumb screws located at the bottom rear of the unit. Slide the bottom of the unit out.
2. When you remove the bottom you will be able to access the gobo. Unscrew the thumb screw that is located right in front of the lamp.
3. Using a phillips screwdriver remove the 3 screws and separate the two pieces of metal that are holding the gobo in place.
4. Change the gobo, and reassemble the unit.

Fire Burst DMX™

DMX Traits

Channel	Value	Function
1	0 - 255	DIMMING 0% → 100%
2	0 - 255	<u>INTERNAL GLASS SPEED</u> 0 1 - 127 128 129 - 255
		STOPPED CLOCKWISE ROTATION FAST → SLOW STOPPED COUNTER CLOCWISE ROTATION SLOW → FAST

Master/Slave Chart



Function Set										0= Off 1= On
Dp1	Dp2	Dp3	Dp4	Dp5	Dp6	Dp7	Dp8	Dp9	Dp10	Function
-	-	-	-	-	-	-	-	-	0	DMX Mode
0	0	0	0	-	-	-	-	-	1	Dimmer 10%
1	0	0	0	-	-	-	-	-	1	Dimmer 16%
0	1	0	0	-	-	-	-	-	1	Dimmer 22%
1	1	0	0	-	-	-	-	-	1	Dimmer 28%
0	0	1	0	-	-	-	-	-	1	Dimmer 34%
1	0	1	0	-	-	-	-	-	1	Dimmer 40%
0	1	1	0	-	-	-	-	-	1	Dimmer 46%
1	1	1	0	-	-	-	-	-	1	Dimmer 52%
0	0	0	1	-	-	-	-	-	1	Dimmer 58%
1	0	0	1	-	-	-	-	-	1	Dimmer 64%
0	1	0	1	-	-	-	-	-	1	Dimmer 70%
1	1	0	1	-	-	-	-	-	1	Dimmer 76%
0	0	1	1	-	-	-	-	-	1	Dimmer 82%
1	0	1	1	-	-	-	-	-	1	Dimmer 88%
0	1	1	1	-	-	-	-	-	1	Dimmer 94%
1	1	1	1	-	-	-	-	-	1	Dimmer 100%
-	-	-	-	0	0	0	0	-	1	CW 1.0 RPM
-	-	-	-	1	0	0	0	-	1	CW 1.2 RPM
-	-	-	-	0	1	0	0	-	1	CW 1.5 RPM
-	-	-	-	1	1	0	0	-	1	CW 2.0 RPM
-	-	-	-	0	0	1	0	-	1	CW 2.5 RPM
-	-	-	-	1	0	1	0	-	1	CW 3.5 RPM
-	-	-	-	0	1	1	0	-	1	CW 5.5 RPM
-	-	-	-	1	1	1	0	-	1	CW 12 RPM
-	-	-	-	0	0	0	1	-	1	CCW 1.0 RPM
-	-	-	-	1	0	0	1	-	1	CCW 1.2 RPM
-	-	-	-	0	1	0	1	-	1	CCW 1.5 RPM
-	-	-	-	1	1	0	1	-	1	CCW 2.0 RPM
-	-	-	-	0	0	1	1	-	1	CCW 2.5 RPM
-	-	-	-	1	0	1	1	-	1	CCW 3.5 RPM
-	-	-	-	0	1	1	1	-	1	CCW 5.5 RPM
-	-	-	-	1	1	1	1	-	1	CCW 12 RPM

Caution: Always replace with the exact same type lamp, 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 replacing the lamp you continue to blow lamps, 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.

Lamp Replacement: Caution! Never attempt to change the lamp while the fixture is plugged in. Always disconnect the main power and allow the unit ample time to cool before attempting to replace the lamp. Lamp replacement has been made simple by incorporating the use of a flip-up front cover that is retained by thumb screws.

1. Be sure to follow the proper handling procedures that deal with halogen lamps.
2. Unscrew the two thumb screws located at the bottom rear of the unit. Slide the bottom of the unit out.
4. Gently slide the socket assembly out and carefully remove the old lamp and discard it in the trash.
5. Replace the lamp with an exact match and reassemble in reverse order.

Breaker Reset: This unit is equipped with a built-in safety breaker. This breaker is designed to close the power circuit in the event of an internal short or power surge. This will reduce the risk of electrical shock or fire and protect the circuitry. To reset the breaker, push the breaker button in until you hear it “pop” back in to place. If the breaker continues to pop, stop using the unit and contact our customer support team, the unit may need to be returned for service.

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 one 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 or any other warranty, either written or implied.

MODEL:	Fire Burst DMX™
VOLTAGE*:	120v~60Hz or 220v~50/60Hz
LAMP:	ZB-EFR 15v/150w
DIMENSIONS:	12" x 10.5" x 9.5"
WEIGHT:	16Lbs./7.4Kgs.
BREAKER:	5 Amp
WORKING POSITION:	Any Safe Position
COOLING:	Fan Cooled
GOBOS:	One (three extra included)
GOBO SIZE:	53.3mm
WARRANTY:	1 YEAR (365 DAYS)

* Voltage is preset at the factory

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

American DJ®

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