

American DJ®  
**DOUBLE  FEATURE**



## User Instructions

American DJ®  
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[www.americandj.com](http://www.americandj.com)

### Double Feature

### General Information

**Unpacking:** Thank you for purchasing the Double Feature by American DJ®. Every Double Feature 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 equipment necessary to operate the unit 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 this unit to your dealer without first contacting customer support.

**Introduction:** This unit is a unique eight channel DMX intelligent double scanner. Four channels for each side. This unit can also run as a stand alone, sound-active unit, or in a Master/Slave configuration. When used as a stand alone unit or when used in multiples linked in a master/slave configuration, the optional BC 30 Controller may be used with in this operation for blackout, program modes, and program effects. *For best results use fog or special effects smoke to enhance the beams projections.*

**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) 582-2610

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®.

## Double Feature

## 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.

## Double Feature

## Product Registration

The Double Feature carries a one year 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 included in the shipping carton. 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 our customer support team on our toll free customer support number. All packages returned to the service department not displaying a R.A. number on the outside of the package will be returned to the shipper.

## Double Feature

## Features

- DMX-512 Protocol Compatible (Uses Eight DMX Channels)
- Bright Lamps LL-EFP x 2, 12v/100w
- 2 Gobo Wheels - Each with 10 Gobo Patterns Plus One Spot/8 Colors Plus White, and 1 Quad Color and 1 Split Color
- Gobo Shake and Gobo Switch
- Master/Slave Operation
- Internal Microphone
- High Velocity Fan (No Duty Cycle)
- Optional BC 30 remote control for Blackout and Programs (**Not Included**)

## Double Feature

## 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 cords at plugs, convenience receptacles, and the point where they exit from the appliance.
- Cleaning -The fixture should be cleaned only as recommended by the manufacturer. See page 12 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.

**Power Supply:** Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® Double Feature.™ The American DJ® Double Feature 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 and Master/Slave Operation):** The Double Feature can be controlled via DMX-512 protocol. The Double Feature is a eight channel DMX unit. The DMX address is set on the bottom panel of the Double Feature.™ 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.

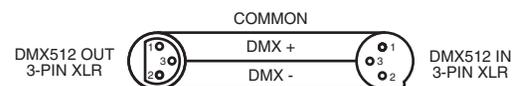


Figure 2



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

**Operating Modes:**

- **Stand alone mode** - The unit will react to sound. You can also use the optional BC 30 controller to blackout and other functions.
- **Master/Slave mode** - You can daisy chain up to 16 units together to get a synchronized light show that will react to sound chasing through several built in programs. You can also use the optional BC 30 Controller may be used with in this operation for blackout, program modes, and program effects..
- **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.™

**Universal DMX Control:** This function allows you to use a universal DMX-512 controller such as the Elation® DMX Operator™ or Show Designer™ to control mirror movement, the shutter/strobe/shake/switch, and the gobo/color wheel. A DMX controller allows you to create unique programs tailored to your individual needs.

1. The Double Feature uses eight DMX channels, four channels for each side. Channel faders 1-4 control the right side and channel faders 5-8 control the left side. Channel 1 controls pan, channel 2 controls tilt, channel 3 controls shutter/strobe/shake/switch, and channel 4 controls gobo/color wheel. See page 10 for detailed description of the DMX traits.
2. To control your fixture in DMX mode, follow the set-up procedures on pages 5-7 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. For longer cable runs (more than a 100 feet) use a terminator on the last fixture.
6. For help operating in DMX mode consult the manual included with your DMX controller.

**Stand-Alone Operation (Sound Active):** This mode allows a single unit to run to the beat of the music. Only use this mode when running a single unit, or when running several units as individuals.

1. The unit will react to the low frequencies of music via the internal microphone.
2. Put dipswitch #1 in the ‘On’ position. Then, adjust the audio sensi-

## Double Feature

## Operation

tivity knob on the bottom of the unit to make the unit more or less sensitive to sound. Turning the sensitivity knob in the clockwise direction will increase the sensitivity, turning the knob in the counter-clockwise direction will decrease the fixture's sensitivity to sound.

- The optional BC 30 Controller (Not Included) may be used with in this operation for blackout, program modes, and program effects. See the bottom of this page for BC 30 controls.

### Master-Slave Operation (Sound Active or Internal Program):

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.

- 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. For longer cable runs we suggest a terminator at the last fixture.
- Simply daisy chain the units together using XLR cables.
- For the Master unit put dipswitch #1 in the "On" position, and all other dipswitches in the "Off" position. For the Slave units, put any dipswitches in the "On" position, except, the #1 dipswitch. **The #1 dipswitch must stay in the "Off" position on all Slave units.**
- The optional BC 30 Controller (Not Included) may be used with in this operation for blackout, program modes, and program effects. See the bottom of this page for BC 30 controls.

*Note: In Stand-Alone and Master-Slave Sound Active operation the units will blackout to conserve lamp life when a sound source is not received.*

Stand by	Blackout the unit		
Function	Strobe 1. sync. strobe 2. two-light strobe	X/Y moving pattern selection (6 patterns)	Color/Gobo selection
Mode	Strobe/ Sound (LED off)	Pattern/ Sound (LED blinking)	Sound (LED on)

## Double Feature

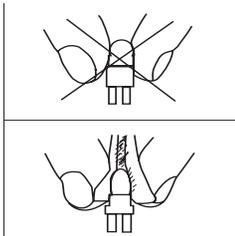
## DMX Traits

Channel	Value	Function
1	0 - 255	PAN
2	0 - 255	TILT
3 ↓		<u>GOBO/COLOR WHEEL</u>
	0 - 11	SPOT
	12 - 23	GOBO 1/PINK & GREEN
	24 - 34	GOBO 2/ORANGE
	35 - 46	GOBO 3/RED & GREEN & BLUE
	47 - 58	GOBO 4/LIGHT GREEN
	59 - 69	GOBO 5/PINK
	70 - 81	GOBO 6/RED, BLUE, GREEN & ORANGE
	82 - 93	GOBO 7/MAGENTA
	94 - 104	GOBO 8/BLUE
105 - 116	GOBO 9/BLUE & MAGENTA	
117 - 127	GOBO 10/GREEN	
128 - 255	GOBO/COLOR WHEEL CHANGE SLOW → FAST	
4 ↓		<u>SHUTTER/STROBE/SHAKE/SWITCH</u>
	0 - 7	BLACKOUT
	8 - 15	SHUTTER OPEN
	16 - 131	STROBING SLOW → FAST
	132 - 247	GOBO SHAKE SLOW → FAST
248 - 255	SHUTTER OPEN	

**Channels 5-8 are the same as channels 1-4. Channels 1-4 will control the right side of the fixture. Channels 5-8 will control the left side of the fixture.**

## Double Feature

## Fuse & Lamp Replacement



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.

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

**Warning:** If you continue to blow lamps or the fuse, 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. Remove the phillips screws on the front of the unit that holds the lamp socket assembly cover in place.
3. After removing the phillips screws, remove cover from the front of the unit to expose the lamp socket assembly.
4. Carefully remove the old lamp(s) and discard them in the trash.
5. Replace the lamp(s) with an exact match and reassemble in reverse order.

**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.

## Double Feature

## Cleaning

**Fixture Cleaning:** Due to fog residue, smoke, and dust cleaning the internal and external optical lenses and mirror should be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates (I.e. smoke, fog residue, dust, dew). In heavy club use we recommend cleaning on a monthly basis. Periodic cleaning will ensure longevity, and crisp output.

1. Use normal glass cleaner and a soft cloth to wipe down the outside casing.
2. Use a brush to wipe down the cooling vents and fan grill.
3. Clean the external optics and mirror with glass cleaner and a soft cloth every 20 days.
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 back in.

## Double Feature

## 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 standard 120v wall outlet.
2. Be sure the fuse has not blown.
3. Remove the lamp cover and be sure the lamps are seated in their sockets properly. Occasionally lamps become loose during shipping be sure the lamps are pushed in to their sockets all the way.

### **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.
2. Be sure the sensitivity knob is not set to the minimum position (full counter-clockwise).

## 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 or any other warranty, either written or implied.

**Double Feature****Specifications**

<b>Model:</b>	<b>Double Feature</b>
<b>Voltage*:</b>	120v/60Hz or 230v/50Hz
<b>Lamp:</b>	LL-EFP x 2, 12v/100w
<b>Dimensions:</b>	18.5”(L) x 11”(W) x 5.4”(H) 466mm x 280mm x 138mm
<b>Colors:</b>	6 Plus White
<b>Gobos:</b>	10 Plus Spot
<b>Weight:</b>	16.5 Lbs./7.5 Kgs.
<b>Fuse:</b>	6.3A(120v) / 5A (230v)
<b>Cooling:</b>	High Velocity Fan
<b>Duty Cycle:</b>	None
<b>DMX:</b>	8 Channels (4 Channels Each Side)
<b>Sound Active:</b>	Yes
<b>Working Position:</b>	Any Safe, Secure Position
<b>Warranty:</b>	1 Year (365 days)

\*Voltage is preset at the factory and is not user selectable

**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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