



# MEGA BAR UV50™

## User Instructions

### Mega Bar UV50™

### Introduction

**Unpacking:** Thank you for purchasing the Mega Bar UV50™ by American DJ®. Every Mega Bar UV50™ 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 have 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 Mega Bar UV50™ is part of American DJ's continuing pursuit for creating high quality, affordable intelligent fixtures. The Mega Bar UV50™ is a DMX intelligent LED UV wash. This wash can be used in a stand-alone mode or connected in a Master/Slave configuration. The unit can also be controlled via DMX controller. This wash has three operating modes: Sound Active mode, Program mode and DMX Control mode.

**Customer Support:** American DJ® provides a toll free customer support line to provide help and to answer any questions; should encounter problems during your set up or initial installation. You may also visit us on the web at [www.adj.com](http://www.adj.com) for any comments or suggestions. Service hours are Monday through Friday 9:00 AM to 5:00 PM (PST).

Voice: (800) 322-6337

Fax: (323) 582-2941

E-Mail: [support@adj.com](mailto:support@adj.com)

To purchase parts online, visit <http://parts.adj.com>

### ⚠ CAUTION

**HIGH  
INTENSITY  
ULTRAVIOLET  
LIGHT**



AVOID DIRECT EYE & SKIN EXPOSURE.  
WEAR PROPER EYE & SKIN PROTECTION.  
SEE MANUAL FOR SAFETY INSTRUCTIONS.

**RISK GROUP 3 - RISK OF EXPOSURE TO  
ULTRAVIOLET (UV) RADIATION!  
FIXTURE EMITS HIGH INTENSITY WAVELENGTH OF  
ULTRAVIOLET LIGHT  
WEAR PROPER EYE AND SKIN PROTECTION.  
AVOID PROLONGED PERIODS OF EXPOSURE.  
AVOID WEARING WHITE COLOR CLOTHING AND/OR  
USING (UV) PAINTS ON SKIN.  
AVOID DIRECT EYE AND/OR SKIN EXPOSURE AT  
DISTANCES SHORTER THAN 11 feet (3.3m).**

**DO NOT OPERATE FIXTURE WITH DAMAGED/MISSING EXTERNAL COVER  
PROTECTIVE LENS.**

**DO NOT LOOK DIRECTLY INTO THE (UV) LIGHT AND/OR VIEW (UV) LIGHT  
DIRECTLY WITH OPTICAL INSTRUMENTS THAT MAY CONCENTRATE THE  
LIGHT/RADIATION OUTPUT.**

**INDIVIDUALS SUFFERING FROM A RANGE OF EYE CONDITIONS, SUNLIGHT  
EXPOSURE DISORDERS, OR INDIVIDUALS USING PHOTSENSITIVE  
MEDICATION, MAY RECEIVE DISCOMFORT IF EXPOSED TO THE ULTRAVIOLET  
(UV) LIGHT EMITTED FROM THIS FIXTURE.**

## Mega Bar UV50™

## 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.

## Mega Bar UV50™

## Features

- Strobe
- Electronic Dimming 0-100%
- Built in Microphone
- DMX-512 protocol
- 2 DMX Channels

## Mega Bar UV50™

## Warranty Registration

The Mega Bar UV50™ carries a 3 year (1095 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.

## Mega Bar UV50™

## 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).

## Mega Bar UV50™

## 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 3 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® Mega Bar UV50™. The American DJ® Mega Bar UV50™ voltage is between 120v ~ 240v.

**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 Mega Bar UV50™ can be controlled via DMX-512 protocol. The Mega Bar UV50™ is a two channel DMX unit. The DMX address is set on the back panel of the Mega Bar UV50™. 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.

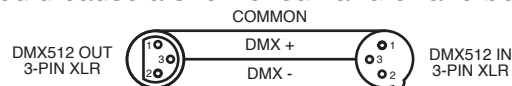


Figure 2

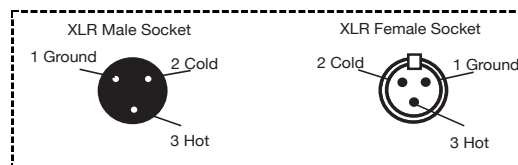


Figure 3

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

**LED Display On/Off:** To make the display stay ON all of the time press the MODE and UP buttons at the same time. To make the display turn OFF after 20 seconds, press the MODE and DOWN buttons at the same time.

### Operating Modes:

You can use the Mega Bar UV50™ in either a stand alone mode or a master/slave configuration, there are 3 modes to choose from:

- Programs Mode - In program mode the UV wash can be turned on and off.
- Sound-Active mode - The unit will react to sound, chasing through the built in programs.
- DMX control mode - This function will allow you to control each individual fixtures traits with a Elation® DMX 512 controller™.

### Master-Slave Operation:

This function will allows you to link units together to run in a Master-Slave mode. In Master-Slave operation one unit will act as the controlling unit and the others will react to the controlling units built-in programs. Any unit can act as a Master or as a Slave however, only one unit can be programmed to act as the “Master.”

### Master-Slave Connections and Settings:

1. Daisy chain your units via the XLR connector on the rear of the unit. Use standard XLR microphone cables to link your units together. Remember that 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. **Note:** *You can also daisy chain the power cords, this can only be done with 20 fixtures. After 20 you will need to use a new power outlet. They must be the same fixtures. DO NOT mix fixtures.*
2. You will also have to link the power cords to each other, as you did with the XLR cables.
3. Using the Master unit, choose your desired mode and connect the “Slave” unit or units.
4. On the “Slave” unit(s) press the MODE button until “SLAV” is displayed. They will now follow the “Master” unit.

### Programs Mode:

1. Plug the fixture in and press the MODE button until “PR.XX” is displayed. When “PR.XX” is displayed you are in Program mode.
2. If “PR.01” is displayed the light is On, if “PR.00” is displayed the light is Off. Choose “PR.01” and press the SET UP button.
3. “FS.XX” is now displayed. You can now adjust the flash rate of the fixture. Use the UP or DOWN buttons to adjust. The flash rate can be adjusted from “FS.01” the slowest, to “FS.99” the fastest. Press the SETUP button when you are finished.

### Sound Active Mode:

In this mode the Mega Bar UV50™ will react to sound.

1. Plug the fixture in and press the MODE button until “SU.XX” is displayed.
2. You can press the UP or DOWN buttons to adjust the sound sensitivity level. The flash rate can be adjusted from “SU.00” the least sensitive, to “SU.31” the most sensitive.

### DMX Mode:

There are 2 DMX Channels. Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs.

1. This function will allow you to control each individual fixture’s traits with a Elation® DMX 512 controller.
2. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller.
3. Press the MODE button until “d.XXX” is displayed. Press the UP or DOWN buttons to select your desired address. Once you have set your desired DMX address press the SETUP button to choose your desired DMX mode.
4. Please see page 9 for DMX values and traits.

First unplug the power. The fuse holder is located next to the power cord. Using a flat-head screw driver unscrew the fuse holder. Remove the bad fuse and replace with a new one.

Mega Bar UV50™		DMX Values and Functions
Channel	Value	Function
1	0 - 255	DIMMER 0% → 100%
2	0 - 254 255	STROBE 0% → 100% SOUND ACTIVE

## Mega Bar UV50™ Troubleshooting

Listed below are a few common problems the user may encounter, with solutions.

### ***Unit not responding to DMX:***

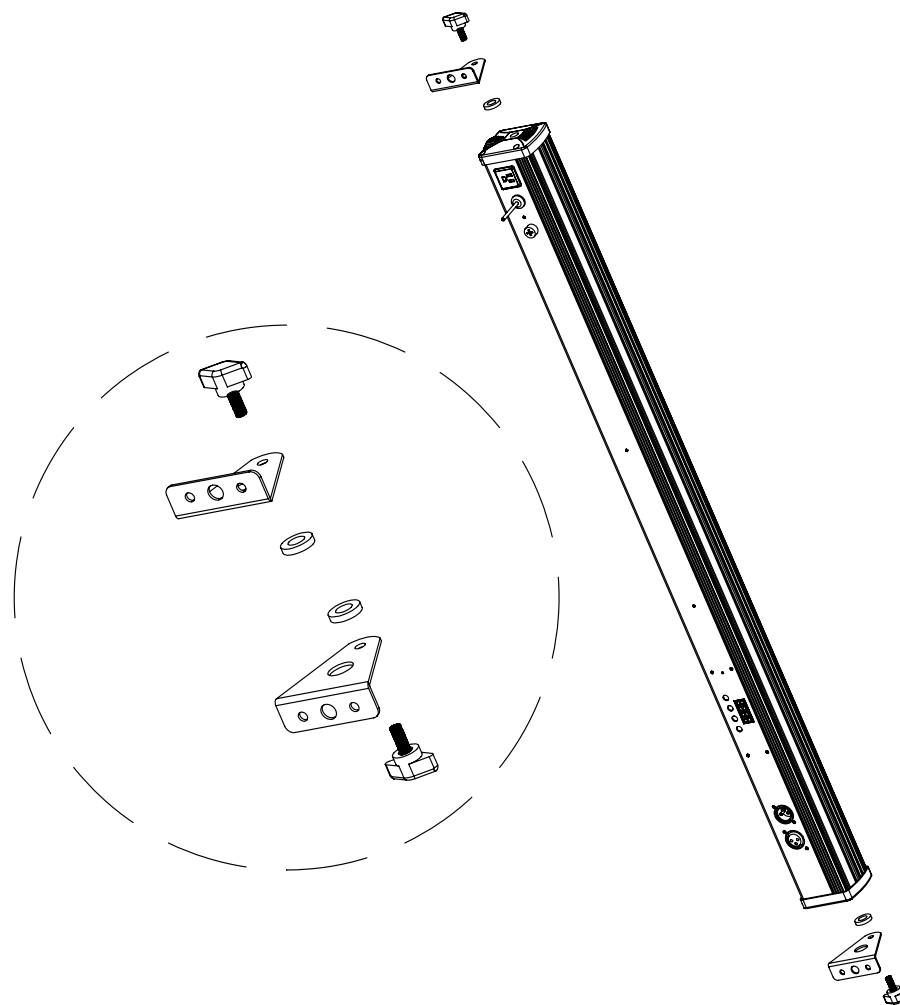
1. Check that the DMX cables are connected properly and are wired correctly (pin 3 is “hot”; on some other DMX devices pin 2 may be ‘hot’). Also, check that all cables are connected to the right connectors; it does matter which way the inputs and outputs are connected.

### ***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*

## Mega Bar UV50™ Mounting Bracket





## Mega Bar UV50™

## 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 User 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))

©American DJ Supply® - www.adj.com - Mega Bar UV50™ User Manual Page 11

## Mega Bar UV50™

## Specifications

### Model: Mega Bar UV50™

#### SPECIFICATIONS:

Working Position:	Any safe working position
Voltage:	120V ~ 240V
LEDs:	126 x 10mm LED
Power Consumption:	20W
Fuse:	1Amp
Weight:	3.5lbs./ 1.6Kgs.
Dimensions:	20.8" (L) x 2.5" (W) x 3.4" (H) 530 (L) x 65 (W) x 88 (H) mm
Colors:	UV
DMX Channels:	2 DMX Channels
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.

©American DJ Supply

American DJ World Headquarters:

4295 Charter Street Los Angeles, CA 90058 USA

Tel: 323-582-2650 / Fax: 323-582-2610

Web: www.adj.com / E-mail: info@adj.com