American DJ®

LEDVISION

User Instructions

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Unpacking: Thank you for purchasing the LED Vision by American DJ®. Every LED Vision 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 LED Vision is part of American DJ's continuing pursuit for creating high quality affordable intelligent fixtures. The LED Vision is a bright DMX intelligent LED special effects fixture. The LED Vision 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 fixture has five operating modes: Program mode, Sound Active mode, Auto mode, and DMX control mode.

Customer Support: American DJ® provides a 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. Middle european Time.

Voice:	0031455468531
Fax:	0031455468599
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.

LED Vision 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.

LED Vision Features

- Mulit-Colors
- Five Operating Modes
- Two Sound Active Modes
- Built in Microphone
- DMX-512 protocol
- Two DMX Channel Mode (7 or 12 DMX Channels)

LED Vision 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 out` doors 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 11 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.

P**ower Supply:** Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® LED Vision. The American DJ® LED Vision 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 LED Vision can be controlled via DMX-512 protocol. The LED Vision can be or seven or a twelve channel DMX unit. The DMX address is set on the rear panel of the LED Vision. 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.

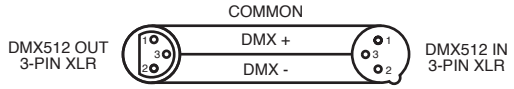

Figure 2

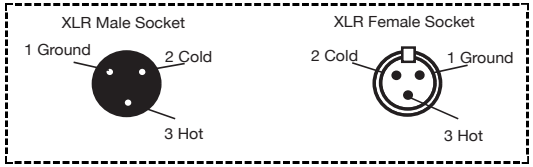

Figure 3

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

Operating Modes:

You can use the LED Vision in either a stand alone mode or a master/slave configuration, there are 5 modes to choose from:

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.
2. Using the Master unit, choose your desired mode and connect the "Slave" unit or units. They will now follow the "Master" unit.

DMX Mode:

There are two DMX Modes to choose from. One mode is a 7 Channel Mode, and the other is a 12 Channel Mode. 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 standard DMX 512 controller such as the Elation® DMX Controller.
2. The LED Vision uses either a seven DMX channel mode or 12 DMX channel mode to operate.
3. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller.
4. To run the 12 Channel Mode, press the left (MODE) button until "1001" is displayed. This is the DMX addressing for the 12 Channel Mode.
5. To run the 7 Channel Mode, press the MODE button until "2001" is displayed. This is the DMX addressing for the 7 Channel Mode.

6. Please see pages 9-10 for DMX values and traits.

Sound Active Mode:

In this mode the LED Vision will react to sound, and chase through the different colors patterns.

Plug the fixture in and press the MODE button until "3-So" is displayed.

Auto Mode:

1. Plug the fixture in and press the MODE button until "4.XX" is displayed. Press the UP or DOWN buttons to choose one of the 40 different programs.

Auto Mode with Speed Adjustment:

In this mode the unit will rotate through the different programs and you are able to adjust the speed of the program.

1. Plug the fixture in and press the MODE button until "5.XX" is displayed. you are able to adjust the speed by pressing either the UP or DOWN buttons. Choose between 1-16, one being the slowest, 16 being the fastest.

Macro Mode:

Select the color design that you want to project.

1. Plug the fixture in and press the MODE button until "6.XX" is displayed. Press either the UP or DOWN to choose one of 36 color patterns.

LED Vision	7 Channel DMX Values and Functions	
Channel	**Value**	**Function**
1	0 - 255	RED 0% → 100%
2	0 - 255	GREEN 0% → 100%
3	0 - 255	BLUE 0% → 100%
4	0 - 13 14 - 255	NOTHING COLOR MACRO
5	 0 - 15 16 - 255	STROBING/SPEED CONTROL STATIC STROBING/AUTO MODESPEED SLOW → FAST
6 ↓	 0 - 5 6 - 245 246 - 251 252 - 255	AUTO MODE AUTO MIX USING CHANNELS 1, 2, & 3 40 BUILT IN COLOR PATTERNS SOUND ACTIVE FLASH SOUND ACTIVE
7	 0 - 255	DIMMING 0% - 100%

Channel 1, 2, and 3 will not work, when Channel 4 is being used.

When using Channel 6, Channel 5 will control the speed of the color changing.

LED Vision	12 Channel DMX Values and Functions	
Channel	**Value**	**Function**
1	0 - 255	RED 1 0% → 100%
2	0 - 255	GREEN 1 0% → 100%
3	0 - 255	BLUE 1 0% → 100%
4	0 - 255	RED 2 0% → 100%
5	0 - 255	GREEN 2 0% → 100%
6	0 - 255	BLUE 2 0% → 100%
7	0 - 255	RED 3 0% → 100%
8	0 - 255	GREEN 3 0% → 100%
9	0 - 255	BLUE 3 0% → 100%
10	0 - 255	RED 4 0% → 100%
11	0 - 255	GREEN 4 0% → 100%
12	0 - 255	BLUE 4 0% → 100%

Note: Red/Green/Blue 1, Red/Green/Blue 2, Red/Green/Blue 3, and Red/Green/Blue 4, refer to sections of the LED Vision.

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.

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).

Model: LED Vision™

SPECIFICATIONS:

LED’s:	26 LED’s
Working Position:	Any safe working position
Voltage:	100v ~ 240v
Power Consumption:	20W
Fuse:	115V 2Amp/250V 1Amp
Weight:	6.5lbs./ 3.0Kgs.
Dimensions:	11.5” (L) x 8.5” (W) x 7.0” (H) 292 (L) x 216 (W) x 178 (H) mm
Colors:	RGB Color Mixing
DMX Channels:	7 & 12 DMX Channels

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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