



# DEKKER LED



## *User Instructions*

### Dekker LED

### Introduction

**Unpacking:** Thank you for purchasing the Dekker LED by American DJ®. Every Dekker LED 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 Dekker LED is part of American DJ's continuing pursuit for creating high quality affordable intelligent fixtures. The Dekker LED is a DMX intelligent LED mooflower effect. This fixture 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 four operating modes: Sound Active mode, Auto mode, Static mode, and DMX control mode.

#### **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 8:00 a.m. to 4:30 p.m. Pacific Standard Time.

Voice: (800) 322-6337

Fax: (323) 582-2941

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.

**PLEASE recycle the shipping carton when ever possible.**

## Dekker LED

## 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.

## Dekker LED

## Features

- Q4 LED Technology
- Includes Built-In Hanging Yoke
- Sound-Active
- Light Weight
- Strobing
- Electronic Dimming 0-100%
- Built in Microphone
- DMX-512 protocol
- 2 DMX Channel Modes: 2 Channels & 8 Channels

## Dekker LED

## Warranty Registration

The Dekker LED carries a three year (1095 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.

## Dekker LED

## 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 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:** The American DJ® Dekker LED contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source. With this switch there is no need to worry about the correct power voltage, this unit can be plugged in anywhere.

**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 Dekker LED can be a 2 channel DMX unit or 8 channel DMX unit. The DMX address is set electronically using the controls on the rear panel of the unit. Your unit and your DMX controller require a approved DMX-512 110 Ohm Data cable for data input and data output. We recommend Accu-Cable DMX cables. If you are making your own cables, be sure to use standard 110-120 Ohm 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.



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.

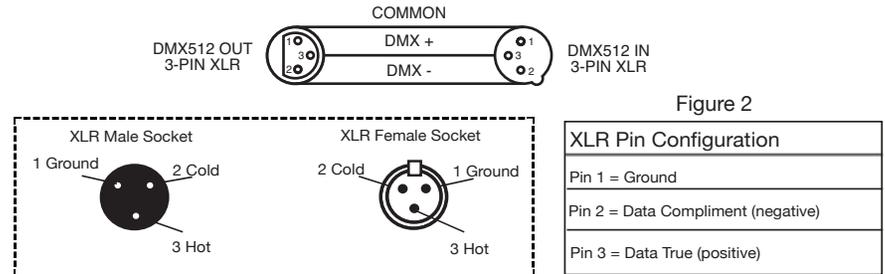


Figure 2



Figure 3

**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 110-120 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 DMX-512 data cables for DATA transmission in place of 3-pin. 5-pin DMX fixtures may be implemented in a 3-pin DMX line. When inserting standard 5-pin data cables 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.

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 set the LED display to turn off after 10 seconds, press the MODE button until 0001 is displayed, press the UP button to display 0002. Now the display will disappear after 10s. Press any button for at least 10s to turn the display on again. Be advised though that the display will turn off automatically after 10 seconds.

To set the display press the MODE button until 0001 is displayed. The display will now stay on at all times.

ds-1= LCD display on at all times.

ds-2= LCD display shuts off after 10 seconds.

**Master-Slave Operation:**

This function will allow 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. You will also have to link the power cords to each other, as you did with the XLR cables.
3. Choose your Master unit, and press the MODE button until "5-XX" is displayed. You are now in Master mode and you can use the UP or DOWN buttons to select your desired show from 0-20 or Sound Active (5-So)
4. With the "Slave" unit(s) press the MODE button until "4-XX" is displayed. They will now follow the "Master" unit.

**Dance Mode:**

There are two dance programs to choose from, fast dance and slow dance.

1. Plug the fixture in and press the MODE button until "1--X" is

displayed. "X" represents the current number being displayed.

2. Select your desired dance program by pressing either the UP or DOWN buttons.
3. 1--1 is a fast dance program. 1--2 is a slow dance program.

**DMX Mode:**

The Dekker LED has 2 DMX Channel modes. You can choose between 2 DMX channels or 8 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 standard DMX 512 controller such as the Elation® Show Designer™ or the Elation® DMX Operator.™
2. To run your fixture in DMX mode, plug in the fixture via the XLR connections to any standard DMX controller.
3. Choose your DMX channel mode -  
Press the MODE button until "2XXX" is displayed, this is 2 channel mode. Press the UP or DOWN button to find your desired DMX address.

Press the MODE button until "3XXX" is displayed, this is 8 channel mode. Press the UP or DOWN button to find your desired DMX address.

4. Please see pages 10-11 for DMX values and traits.

**Adjustment Mode:**

1. Plug the fixture in and press the MODE button until "6-XX" is displayed.
2. Select your desired program in mode 6 by pressing either the UP or DOWN buttons. There are 10 programs to choose from.
3. Adjust the program speed by pressing the MODE button until "7-XX" is displayed. Press either the UP or DOWN buttons to adjust the speed of the program. When "7-so" is displayed the program is running in sound active mode.

**UC3 F Mode:**

Choose a color to remain static.

1. Plug the fixture in and press the MODE button until "UC3 F" is displayed.

2. Now you can use the UC3 Controller (Not Included) to control various functions. See below for UC3 controls.

Button	Function	
STAND BY	Open or close screen when pressing this button	
FUNCTION	1	R
	2	G
	3	B
	4	W
	5	RGBW
	6	Auto Mix-color
	7	Sound Mode
STROBE	Open or close strobe mode when pressing this button	

Channel	Value	Function		
1	1 - 26	PROGRAMS 4 COLOR FADE CHANGE 9 COLOR FADE CHANGE 4 COLOR LOOP CHANGE 9 COLOR LOOP CHANGE STROBE 1 DIM - BRIGHT STROBE 2 BRIGHT - DIM STROBE 3 DIM - BRIGHT - DIM STROBE 4 W/O DIM EFFECT STROBE 5 WITH 9 COLOR STROBE 6 WITH GRADUAL DIM ALL PROGRAMS WILL CYCLE		
	27 - 51			
	52 - 76			
	77 - 101			
	102 - 126			
	127 - 151			
	152 - 176			
	177 - 201			
	202 - 226			
	227 - 254			
	255			
	2		1 - 254	PROGRAM SPEED SLOW - FAST SOUND ACTIVE
			255	

Dekker LED 8 Channel Mode - DMX Values & Traits		
Channel	Value	Function
1	1 - 127 128 - 255	MOTOR FUNCTION CONTROL ROTATE CLOCKWISE SLOW - FAST ROTATE COUNTER CLOCKWISE FAST - SLOW
2	1 - 255	RED INTENSITY 0% - 100%
3	1 - 255	GREEN INTENSITY 0% - 100%
4	1 - 255	BLUE INTENSITY 0% - 100%
5	1 - 255	WHITE INTENSITY 0% - 100%
6		MASTER INTENSITY CONTROL 0% - 100%
7	1 - 26 27 - 51 52 - 76 77 - 101 102 - 126 127 - 151 152 - 176 177 - 201 202 - 226 227 - 254 255	PROGRAMS 4 COLOR LOOP CHANGE 9 COLOR FADE CHANGE 4 COLOR LOOP CHANGE 9 COLOR LOOP CHANGE STROBE 1 DIM - BRIGHT STROBE 2 BRIGHT - DIM STROBE 3 DIM - BRIGHT - DIM STROBE 4 W/O DIM EFFECT STROBE 5 WITH 9 COLOR STROBE 6 WITH GRADUAL DIM ALL PROGRAMS WILL CYCLE
8	1 - 254 255	PROGRAM SPEED SLOW - FAST SOUND ACTIVE

**NOTE: Regarding Channel 7, LED intensity is controlled by Channels 2 - 5. Channel 7 LED program speed is controlled by Channel 8.**

## Dekker LED

## Fuse Replacement

**Fuse Replacement:** First unplug the power. The fuse holder is located at the rear of the unit 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.

## Dekker LED

## 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 110V wall outlet.
2. Be sure the fuse has not blown. The fuse is located on the rear panel.

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.

## Dekker LED

## Cleaning

**Fixture 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. Use a brush to wipe down the fan grill.
3. Clean the external optics 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.

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.

## 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 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, 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, Strobes, Fog Machines, Bubble Machines, Mirror Balls, Par Cans, Trussing, Lighting Stands etc. excluding Laser Products and lamps)
- American DJ Laser 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)

## Technical Specifications:

Model: Dekker LED

<b>LEDs:</b>	2 x 5W RGBW LEDs
<b>Voltage:</b>	100~240v 50Hz~60Hz
<b>Power Consumption:</b>	25W
<b>Dimensions:</b>	11"(L) x 9.8"(W) x 10.23"(H)
<b>Colors:</b>	RGB + White
<b>Weight:</b>	8.5 Lbs./3.85 Kgs.
<b>DMX Channels:</b>	2 Channel or 8 Channels
<b>Fuse:</b>	1 Amp
<b>Duty Cycle:</b>	None

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

**Auto Sensing Voltage:** This fixture contains a automatic voltage switch, which will auto sense the voltage when it is plugged into the power source.

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