

# American DJ®

## 64B LED PRO



### User Instructions

American DJ®  
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Rev. 7/07

#### 64B LED PRO

#### Introduction

**Unpacking:** Thank you for purchasing the 64B LED PRO by American DJ®. Every 64B LED PRO 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 64B LED PRO is part of American DJ's continuing pursuit for creating high quality affordable intelligent fixtures. The 64B LED PRO is a DMX intelligent LED Par Can. This Par Can is light weight and compact which makes it a great piece for mobile DJ's and clubs. This unit can be used as a stand alone, or in a Master/Slave configuration. The unit can also be controlled via DMX controller.

**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) 582-2941

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.**



**Power Supply:** Before plugging your unit in, be sure the source voltage in your area matches the required voltage for your American DJ® 64B LED PRO. The American DJ® 64B LED PRO 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 64B LED PRO can be controlled via DMX-512 protocol. The 64B LED PRO can be a three, six, or seven channel DMX unit. The DMX address is set on the back panel of the 64B LED PRO. 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.

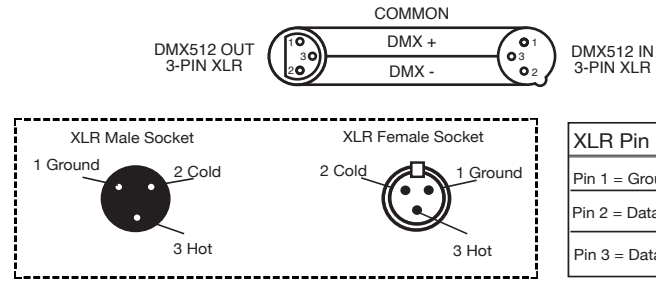


Figure 3

**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		Do Not Use
Not Used		Do Not Use

**LED Display On/Off:**

To set the LED display to turn off after 20 seconds, press and hold the MODE button, and then press the DOWN button. When you release the buttons the display will be off. Press any button to turn the display on again. Be advised though that the display will turn off automatically after 20 seconds.

To set the display to stay on at all times press and hold the MODE button, and then press the UP button. The display will now stay on at all times.

**Operating Modes:**

There are seven different ways to operate the 64B LED PRO:

**Color Mode:**

In this mode you can choose a desired color to remain static.

1. Plug the fixture in and press the MODE button until "C.L.X" is displayed. "X" = 0-7.
2. Press the UP or DOWN buttons to adjust "X" between 0-7. 0 is blackout, 1 is red, 2 is green, 3 is blue, 4 is purple, 5 is lime green, 6 is cyan, and 7 is white.

**Color Change Mode:**

In this mode the 64B LED PRO will change through the different colors.

1. Plug the fixture in and press the MODE button until "J.XX" is displayed. "XX" = 01-99 which is the adjustable rate of the speed change.
2. Press the UP or DOWN buttons to adjust the speed of the color change.

**Color Fade Mode:**

In this mode the 64B LED PRO will fade in and out of the different colors.

1. Plug the fixture in and press the MODE button until "F.XX" is displayed. "XX" = 01-99 which is the adjustable rate of the speed change.
2. Press the UP or DOWN buttons to adjust the speed of the color change.

**Auto Mode:**

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

**Sound Active Mode:**

In this mode the 64B LED PRO will react to sound, changing and fading through the different colors.

1. Plug the fixture in and press the MODE button until "S.XX" is displayed. "XX" = 00-31 which is adjustable sound sensitivity levels.
2. The fixture will now change via sound. You can adjust the sound sensitivity by pressing the UP and DOWN buttons. The sound sensitivity can be adjusted from 00 - 31, 00 being the least sensitive, and 31 being the most sensitive.

**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."

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.
3. For the "Slave" unit(s) press the MODE button until "S.L.A." is displayed. They will now follow the "Master" unit.
4. **To run the units in a Master/Slave configuration in DMX mode, set the Masters' DMX address, then set the slave unit(s) to the same DMX address.**
5. **On your DMX controller make sure the same number of fixtures are set to "On", as the same number of fixtures that are in your Master/Slave configuration.**

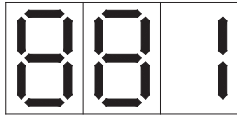
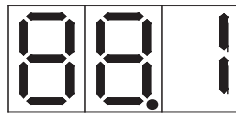
**DMX Mode:**

There are three DMX Modes to choose from: 3 Channels, 6 Channels, and 7 Channels. Operating through a DMX controller give the user the

**64B LED PRO****Operating Instructions**

freedom to create their own programs tailored to their own individual needs. Operating through a DMX controller give the user the freedom to create their own programs tailored to their own individual needs. This function also allows you to use your fixtures as spot lights.

1. This function will allow you to control each individual fixture's traits with a standard Elation® DMX 512 controller.
2. The 64B LED PRO uses three, six, or seven DMX channels to operate. Please see pages 9-11 for the DMX traits.
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.
4. To run the 3 Channel Mode, press the MODE button until "001" with a small dot underneath the last number is displayed. This is the DMX addressing for the 3 Channel Mode. Set your desired DMX address.
5. To run the 6 Channel Mode, press the MODE button until "001" is displayed. This is the DMX addressing for the 6 Channel Mode. Set your desired DMX address.
6. To run the 7 Channel Mode, press the MODE button until "001" with a small dot underneath the middle number is displayed. This is the DMX addressing for the 7 Channel Mode. Set your desired DMX address.

**3 Channel Mode****6 Channel Mode****7 Channel Mode****64B LED PRO****DMX Values and Functions - 3 Channel**

Channel	Value	Function
1	0 - 255	RED 0% → 100%
2	0 - 255	GREEN 0% → 100%
3	0 - 255	BLUE 0% → 100%

**64B LED PRO****DMX Values and Functions - 6 Channel**

Channel	Value	Function
1	0 - 255	RED 0% → 100%
2	0 - 255	GREEN 0% → 100%
3	0 - 255	BLUE 0% → 100%
4	0 - 7 8 - 255	NOTHING COLOR MACRO
5	0 - 15 16 - 255	NOTHING STROBING
6	0 - 31 32 - 63 64 - 95 96 - 127 128 - 159 160 - 191 192 - 223 224 - 255	NOTHING DIMMING CONTROL DIM → BRIGHT BRIGHT → DIM DIM → BRIGHT → DIM COLOR MIXING 3 COLOR CHANGE 7 COLOR CHANGE SOUND ACTIVE

- Channels 1, 2, and 3 will only work with Channel 5, when Channel 6 is not being used. Channels 4 & 5 work together.
- Channels 1, 2, and 3 will not work, when Channel 4 is being used. When units are daisy chained together in DMX Mode, channels 1, 2, and 3 must be **"OFF"** for units to sync together when using Channel 4. Channels 4 & 5 work together.
- When the values of Channel 6 are between 32 and 127, you must be using Channels 1, 2, 3, or all three combined. Channels 4 & 5 will not work
- When the values Channel 6 are between 128 and 223, Channel 5 will control the speed of the color mixing and changing.
- When the values of Channel 6 are between 224 and 255 (Sound Active), Channel 5 will control sound sensitivity.



**64B LED PRO DMX Values and Functions - 7 Channel**

Channel	Value	Function
1	0 - 255	RED 0% → 100%
2	0 - 255	GREEN 0% → 100%
3	0 - 255	BLUE 0% → 100%
4	0 - 7 8 - 255	NOTHING COLOR MACRO
5	0 - 15 16 - 255	NOTHING STROBING/MACRO SPEED
6	0 - 31 32 - 63 64 - 95 96 - 127 128 - 159 160 - 191 192 - 223 224 - 255	NOTHING DIM → BRIGHT BRIGHT → DIM DIM → BRIGHT → DIM COLOR MIXING 3 COLOR CHANGE 7 COLOR CHANGE SOUND ACTIVE
7	0 - 255	DIMMER 0% → 100%

- Channels 1, 2, and 3 will only work with Channel 5, when Channel 6 is not being used. Channels 4 & 5 work together.
- Channels 1, 2, and 3 will not work, when Channel 4 is being used. When units are daisy chained together in DMX Mode, channels 1, 2, and 3 must be **“OFF”** for units to sync together when using Channel 4. Channels 4 & 5 work together.
- When the values of Channel 6 are between 32 and 127, you must be using Channels 1, 2, 3, or all three combined. Channels 4 & 5 will not work
- When the values Channel 6 are between 128 and 223, Channel 5 will control the speed of the color mixing and changing.
- When the values of Channel 6 are between 224 and 255 (Sound Active), Channel 5 will control sound sensitivity.

**64B LED PRO 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 a soft cloth to wipe down the outside casing.
2. Clean the external optics with a soft cloth every 20 days. Cleaning frequency depends on the environment in which the fixture operates (i.e. smoke, fog residue, dust, dew).

**64B LED PRO Trouble Shooting**

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*

## 64B LED PRO

## 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 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, 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)

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## 64B LED PRO

## Specifications

### Model: 64B LED PRO

#### SPECIFICATIONS:

LED's:	181 LED's (36 Red, 85 Green, 60 Blue)
Working Position:	Any safe working position
Voltage:	120V / 230V
Wattage:	30W
Power Draw:	0.2 Amps
Weight:	6lbs./ 2.5Kgs.
Dimensions:	12.2" (L) x 9" (W) x 9" (H)
Colors:	RGB Multi Color
DMX Channels:	3, 6, or 7 DMX Channel Modes
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.

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