



DP-DMX20L 4 CHANNEL DMX DIMMER PACK



User Instructions

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DOCUMENT VERSION

Please check www.adj.com for the latest revision/update of this guide.

Date	Document Version	Notes
02/07/18	1	Updated Release

Europe Energy Saving Notice

Energy Saving Matters (EuP 2009/125/EC)

Saving electric energy is a key to help protecting the enviroment. Please turn off all electrical products when they are not in use. To avoid power consumption in idle mode, disconnect all electrical equipment from power when not in use. Thank you!

Introduction:

Thank you for purchasing the DP-DMX20L™ 4 channel dimmer pack from ADJ®. To optimize the performance of this product, please read these operating instructions carefully and familiarize yourself with the basic operations of this unit. The ADJ® DP-DMX20L™ is a four channel, DMX dimmer pack. This unit has been tested at the factory before being shipped to you. There is no assembly required.

The ADJ® DP-DMX20L™ is controlled via a standard DMX controller. This unit allows you to control special effect lighting, that normally could not be controlled, by a DMX controller. With this revision to our popular DP-DMX20™ we have eliminated confusing dip switches and replaced them with an easy to use digital switching device that incorporates the use of an easy to read LCD display.

Customer Support:

ADJ Products, LLC provides a toll free customer support line, to provide 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.adj.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: (323) 582-2650

Fax: (323) 582-2941

E-mail: support@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 your nearest ADJ® dealer.

Power Supply: Before plugging your unit in be sure the source voltage in your area matches the required voltage for your ADJ® DP-DMX20L™. The DP-DMX20L™ is available in a 115v and 230v version. Because line voltage may vary from venue to venue, you should be sure to plug your power supply into a matching wall outlet before attempting to operate you controller.

Data Cable (DMX Cable) Requirements:

Your unit and your DMX controller require an approved DMX-512 110 Ohm Data cable for data input and data output (Figure 1). 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: 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.

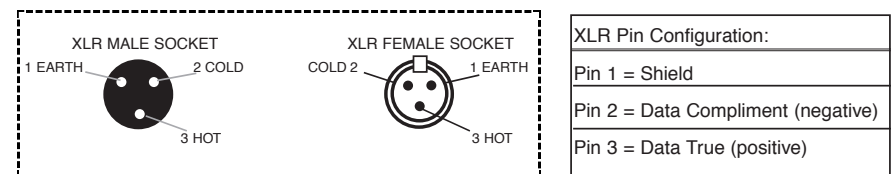


Figure 2

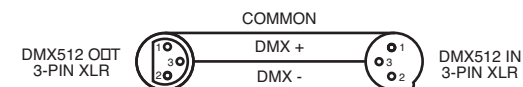
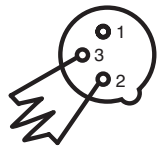


Figure 3

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 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 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

Product Description:

The DP-DMX20L™ is 1, 2, or 4 channel DMX Dimmer Pack. This pack can serve as a stand alone chaser or a DMX dimmer pack. This pack is designed for zero-crossing circuitry which protects against inductive loads, so it is safe for use with all lighting effects that include transformers such as pin spots. Each channel comes with two 3-prong Edison sockets inputs for a total of eight. This unit features XLR female and male connection for DMX compatibility. Each channel is equipped with a fuse for each channel, and a maximum output load of 6.3A per channel or 15A total. This revision of our popular DP-DMX20™ has a great new case design that makes it great for permanent or mobile applications.

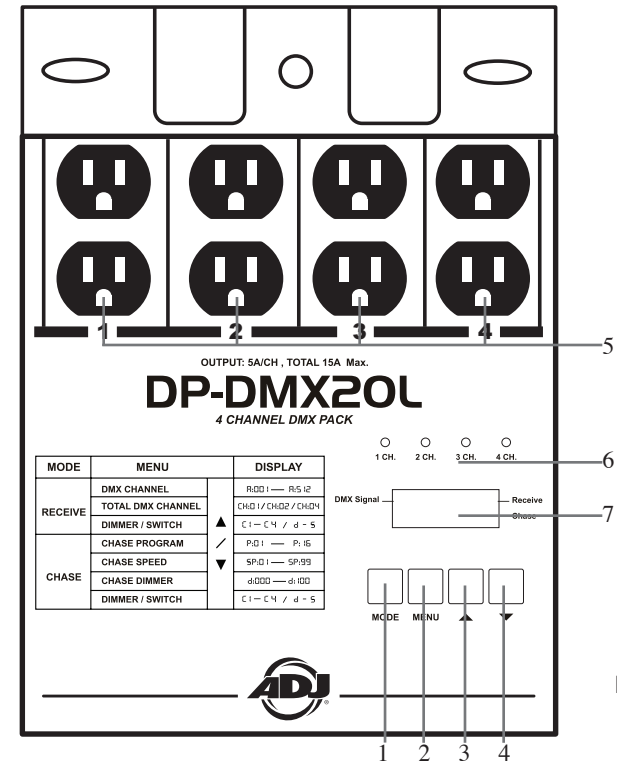
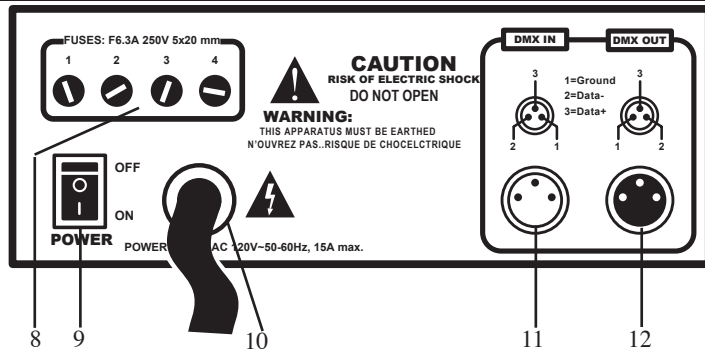


Figure 5

1. Mode Button - This button will change the power packs operate mode between DMX and chaser.
2. Menu Button - This button will activate the different functions in DMX and chase modes.
3. Up Button - This button will increase the displayed value in the LCD display.
4. Down Button - This button will decrease the displayed value in the LCD display.
5. POWER OUTPUT - 3-prong grounded Edison output sockets. 8 total output sockets. Each channel has an output maximum of 6.3 amps. The unit has an output maximum of 15 amps
6. GREEN L.E.D. Indicators - These LEDs will indicate their relevant channel activity.
7. LCD Display - This multifunction display will detail all chase and program activity that pertains to the current operating mode of the pack.



8. Channel Fuses - Each of the four channels is protected by a 6.3A fuse. These fuses prevent you from overloading and damaging your pack. Be sure to always replace with the exact same type fuse.
9. Power Switch - This switch controls the units main power.
10. Power Cord - Plug this cord into a matching power supply for your area.
11. DMX Input - This connector accepts your DMX input signal.
12. DMX Output - This connector sends your DMX input signal through to the next DMX device.

Operation Modes:

The DP-DMX20L™ has two different operating modes. This unit can be used as a four channel chaser or as a 1, 2, or 4 channel DMX dimmer pack. Please follow the instructions below to operate the unit in your desired mode.

Chase Mode:

Use this operating mode only if you are planning on using your DP-DMX20L™ as a four channel chaser. This device has 16 built in programs, you may select any of these programs or set the pack to chase in a random sequence of all 16 built in programs for a more dramatic light show. You may control the speed at which the programs will chase.

1. Connect your lighting effects to the any of the eight power sockets on the pack.
2. Use the mode button to select chase mode: Chase mode is

indicated by "PA" followed by numbers 01-16. "PA" is Programmed Applied. If "A" appears in the LCD display you are in DMX mode, "A" stands for address.

3. Set your desired chase pattern: Once you have selected the chase function use the MENU button to select your desired chase. The chase pattern is represented in the LCD display by "P" followed by two numbers. You may select any of the built in 16 programs to run at a single time.
4. Set your desired chase speed: At this point you may change the program chase speed. While in chase mode, tap on the MENU button until the "SP" followed by two numbers is displayed in the LCD. Then use the UP and DOWN buttons to adjust the chase speed. A value of 99 will give you the fastest chase speed (about 1/10th of a second). A value of 01 will give you the slowest chase speed (one step every 30 sec.).
5. You may now change the light intensity: Use the MENU button to select "d" in the LCD. Use the UP and DOWN arrow keys to change the light output intensity. 00 will give the lowest output and 99 will give you full intensity.

DMX Mode:

Use this operating mode only if you plan to use your pack as a DMX dimmer. This function will allow you to turn on and control the intensity of non-DMX with the use of a DMX controller. On, off, and dimming functions can be performed through this pack. You may also set your dimmer pack to functions as a 1, 2, or 4 channel DMX dimmer pack, which means you can combine the output functions. **DMX Operation:**

1. Plug in a DMX controller to your dimmer pack via the 3-pin XLR cables.
2. Connect your lighting effects to any of the eight power sockets on the front of the pack.
3. Decide if you are going to use your dimmer pack as 1, 2, or 4 channels. This function allows you to;
 - a. Control the output to all four outlets with one DMX channel.
 - b. Group outlet channels one and two and group outlets channels three and four. The first group will be controlled by one DMX channel and the second group will be controlled by another DMX channel. This gives the pack a DMX value

of two.

- c. The default setting is a four channel DMX switcher, each channel is controlled by one DMX channel.
4. To change the channel function mode be sure you are in DMX mode. Use the Menu button to select "CH" followed by two digits. Then use the UP and DOWN arrow buttons to change the setting from 01, 02, or 04. Your dimmer pack is initially set as a four channel DMX switcher.
5. The dimmer pack is initially set to be activated by DMX address one. To change this setting be sure you are in DMX mode. Use the MENU button to select the address settings, this will be indicated by an "A" in the first character of the LCD followed by three numbers. Use the UP and DOWN arrow buttons to select your desired DMX address. Remember the DMX address tells your DMX controller what channel to activate the pack's functions.
6. Once you have set the pack's DMX address be sure your controller's address matches that of the packs'.
7. Your pack will now operate as DMX dimmer, you may control the light output intensity through your DMX controller. 0 will give no output and 100 will give you full output.

Fuse Replacement: To replace the protective fuse, use a flat head screwdriver to unscrew the fuse holder. Pull out the old fuse and replace it with a new one. Insert the fuse back into slot and tighten. Always replace with the exact same type fuse remove unless otherwise specified by an authorized ADJ® service technician.

Caution: Always disconnect the units main power before performing any type of service or fuse replacement!

For any service related issues, please contact ADJ Products, LLC®.

MANUFACTURER'S LIMITED WARRANTY

- A. ADJ Products, LLC hereby warrants, to the original purchaser, ADJ Products, LLC 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—please contact ADJ Products, LLC Service Department at 800-322-6337. Send the product only to the ADJ Products, LLC factory. All shipping charges must be pre-paid. If the requested repairs or service (including parts replacement) are within the terms of this warranty, ADJ Products, LLC 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 it's original package. No accessories should be shipped with the product. If any accessories are shipped with the product, ADJ Products, LLC 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 ADJ Products, LLC concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the ADJ Products, LLC factory unless prior written authorization was issued to purchaser by ADJ Products, LLC; 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, ADJ Products, LLC 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 ADJ Products, LLC under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of ADJ Products, LLC. All products covered by this warranty were manufactured after August 15, 2012, and bear identifying marks to that effect.
- E. ADJ Products, LLC 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 ADJ Products, LLC 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 ADJ Products, LLC 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 ADJ Products, LLC Products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

MANUFACTURER'S LIMITED WARRANTY PERIODS:

- **Lighting Products = 1-year (365 days) 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 LED and lamps)
- **Laser Products = 1 Year (365 Days) Limited Warranty** (excluding laser diodes which have a 6 month limited warranty)
- **L.E.D. Products = 2-year (730 days) Limited Warranty** (excluding motors, PCB boards, and power supplies, which have a 1-year (365 day Limited Warranty) batteries which have a 180 day limited warranty). Only the L.E.D.s carry a 2-year warranty (excluding StarTec Series which carries a 1 Year Limited Warranty) **Note: 2 Year Warranty only applies to purchases within the United States.**
- **ADJ DMX Controllers = 2 Year (730 Days) Limited Warranty** (excluding faders and tact switches)

Model:	DP-DMX20L
Voltage:	120V ~ 60Hz or 230V ~ 50Hz
Maximum Load:	5A Per Channel / 15A Total
Dimensions:	10.25"(L) x 8.25"(W) x 3"(H) 260 x 209 x 76mm
Weight:	6 Lbs. / 2.72 kgs.
Fuse:	4 x 6.3A
Duty Cycle:	None
Working Position:	Any Safe, Secure Position
Warranty:	1 Year (365 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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