DP-DMX20L

OUTPUT: 10A/CH , TOTAL 20A Max.

DP-DMX20L
4 CHANNEL DMX DIMMER PACK

MODE	MENU	DISPLAY
RECEIVE	DMX CHANNEL	A:001 — A:512
	TOTAL DMX CHANNEL	CH:01 / CH:02 / CH:04
	DIMMER / SWITCH	C1 — C4 / d = S
CHASE	CHASE PROGRAM	P:01 — P:16
	CHASE SPEED	SP:01 — SP:99
	CHASE DIMMER	d:000 — d:100

DMX Signal   Receive   Chase

MODE   MENU   ▲   ▼
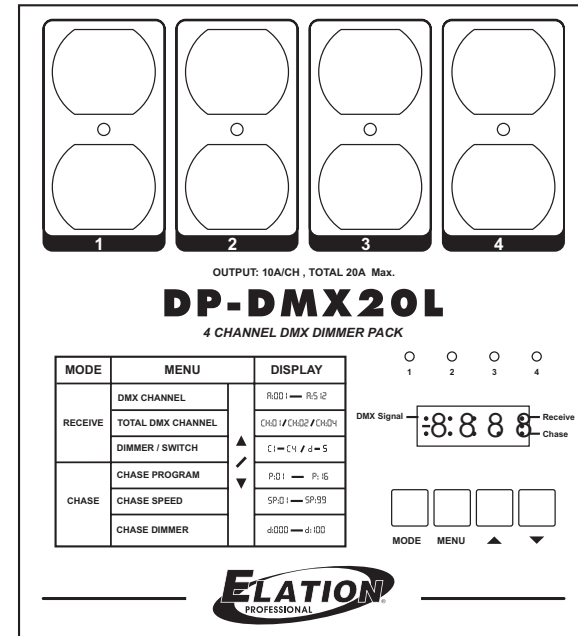
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USER MANUAL

Notes:

Technical Specifications

Power Input .... AC 120V~50-60Hz, 20 A max.	
Channel Output .... 10A per channel, Total 20 A max.	
DMX OUT .... 3-pin XLR female	
DMX IN .... 3-pin XLR male	
External load fuse.. F10A 250V 5x20mm	
Internal main fuse... F0.315A 250V 5x20mm	
Dimensions ....8.35L x 7.4W x 2.8H (212x188x71mm)	
Weight ....5.29lbs.(2.4 Kg)	

Table of Contents

Features

Thank you for purchasing the DP-DMX20L hybrid dimmer/switch pack. This product includes the following features:

- 4 channel hybrid pack with dual Edison sockets per channel.

- All four channels are user assignable between Dimmer & Switch modes.

- 4 channel LED's indicate relevant channel activity.

- Device can functions as a one, two or four channel pack.

- 0-100% dimming capability.

- 16 built in chase programs with speed and intensity settings.

- Power failure memory..

- 4 digit digital LED-display.

- Four 10A fuses. One per channel, AC120V, 5x20mm

Every effort has been made to design dependable and reliable products. New products are constantly being designed to meet the needs of the entertainment lighting industry. Your comments regarding our products and services are welcome. Please send us an e-mail to info@elationlighting.com and let us know how we can improve to better serve you.

It is both a privilege and a pleasure serving you.

Troubleshooting

Troubleshooting

No Power to the pack:
Disconnect the main power line cord. Reconnect the line cord to ensure proper connection. If the problem still persists, check the building service panel and make sure the circuit breakers are on.

No Channel output:
Disconnect the main power line cord. Check the corresponding channel fuse (see replacing fuses section). Replace if blown. Reconnect line cord. If controlling via DMX, ensure that you are receiving DMX signal at the pack. Indicator in the display should be flashing when signal is present. If signal is not present, check the XLR connections from console or previous fixture in line. If problem still persists, replace XLR cable between previous device and pack and try again.

Undesired 100% channel switch output:
Check the "Dim/Switch" settings. Ensure all channels are set to dim. If problem still persists, ensure that you are not receiving channel output from your console by disconnecting the XLR input cable from the pack.

If you've tried the above and the unit continues to malfunction, please contact ELATION® customer service at (323) 582-3322, your unit will require service. Once you describe your problem to the customer service representative, you will be issued a return authorization number that must accompany the package when sent in. Please write this RA# on the outside of the box with a black marker and also write it on any packing list that may be included with the package.

Fuse Replacement

External Fuse Replacement: Disconnect the main power line cord.
Use a flat head screwdriver to remove the fuse holder cap. Pull out the old fuse and replace it with a new one of the exact same type. Replace the fuse cap with the flat head screw driver. Do not over tighten as this may result in a broken and unusable fuse holder.

Internal Fuse Replacement: Disconnect the main power line cord.
Remove the six phillips head screws from the rear panel. Locate fuse on circuit board, remove and replace with exact same type. Replace rear panel and six screws.

Installation, Mounting & Connections

The DP-DMX20L was designed to be mounted onto a truss rig or ceiling. It is recommended that you use a suitable mounting clamp and safety cable when mounting over head. There are several mounting holes on the DP-DMX20L in place for the mounting in various configurations. The mounting bracket can be reversed by removing the six phillips head screws on the rear- this design is intended for hanging the pack onto a 2 in pipe or truss without the need of clamps or other means of hardware. For cooling purposes, it is necessary to mount the pack so that air is free to circulate around the dimmer. There should be at least 12 inches of clearance between the pack and anything surrounding it.

Connections

The DP-DMX20L is supplied with a single 15 Amp Edison plug attached to a 14 gauge line cord. This cord should be connected to a service capable of suppling 20 amps to the pack and be protected by a properly sized circuit breaker. Lamp loads should be plugged into to the dual 15 Amp Edison sockets which are supplied on the face of the pack. 3 pin XLR's are supplied for the DMX input and output. Connect out of the DMX controller or previous fixture in line and into the input of the DP-DMX20L. Connect out of the DP-DMX20L and into the input of next pack or fixture in line. Continue to connect the remainder of your fixtures in a daisy chain fashion. It is recommended that the last pack or fixture in line include a DMX terminator into the output. A DMX terminator consists of a 120 ohm, 1/4 watt resistor soldered across pins 2 & 3 of a standard 3 pin XLR connector.

General Instructions

This is a 4 channel portable DMX dimmer/switch pack. Each channel can individually be set to dim or switch and the pack can function as a one, two or four channel device. Using the packs digital display, the pack is quick and easy to set up. There are dual Edison sockets supplied so more than one par or effect can be connected to each channel. 16 built in chase sequences, with speed and intensity control, are available for your convenience. Four external channel fuses allow for quick and easy field serviceability.

To optimize performance of this product, please read the instructions carefully to familiarize yourself with the basic operations.

⚠ Warnings

- This unit must be earthed.
- Keep the unit dry, do not expose it to water or high levels of humidity.
- Do not allow for any flammable liquids to come in close contact with the unit.
- Handle this unit carefully, any strong shock or vibration may result in malfunction.
- Do not dismantle or modify this unit. There are no user serviceable parts inside.
- Do not operate this unit if the internal components are exposed.
- Only use an AC source that complies with the local building and electrical codes.
- When replacing fuses, always replace with the exact same type.
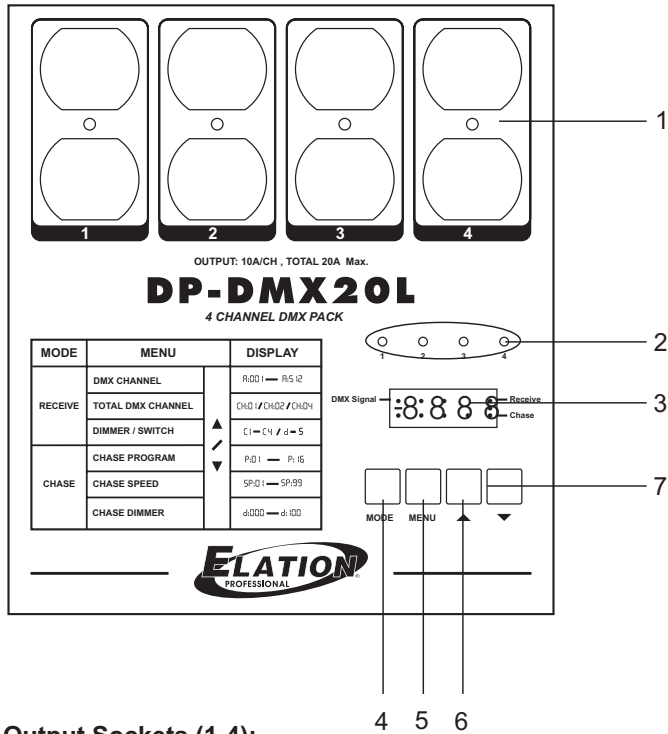
⚠ Cautions

- When unpacking, please check the unit for damages. Should you find something wrong with the unit, please contact the dealer that you purchased it from immediately.
- All rights reserved. No part of this manual may be reproduced, in any form or by any means, without permission in writing from Elation Professional.

> Notice:
>
> Specifications and improvements in the design of this product and this manual are subject to change without prior notice.

Front Panel Layout

OUTPUT: 10A/CH , TOTAL 20A Max.

DP-DMX20L

4 CHANNEL DMX PACK

MODE	MENU	DISPLAY
RECEIVE	DMX CHANNEL	A:001 — A:512
	TOTAL DMX CHANNEL	CH:01 / CH:02 / CH:04
	DIMMER / SWITCH	C1 — C4 / d — S
CHASE	CHASE PROGRAM	P:01 — P:16
	CHASE SPEED	SP:01 — SP:99
	CHASE DIMMER	di:000 — di:100

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1. Edison Output Sockets (1-4):
These are dual 120V. Edison sockets. Each socket is labeled with the packs relevant channel number. Up to 10 amps can be connected into each channel.

2. Channel LED's (1-4): These LED's display relevant channel intensity & activity.

3. LED Display: Shows the current DMX channel and function mode- including a DMX signal indicator. All set up functions are accomplished through display.

4. Mode Button:
The mode button is used to select between receive and chase mode. When in receive mode, the pack will respond to DMX. When in chase mode, the pack can be set to chase any of the internal 16 chase programs.

5. Menu Button: The menu button is used to set up the packs characteristics.

Receive (DMX) Mode Cont.
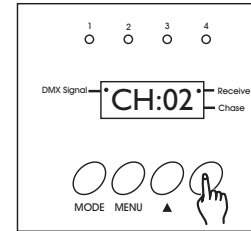
4. Press the up ▲ or down ▼ buttons to change the total DMX channel setting. Set to "Ch:01" if you wish to set the device as a one channel pack- all four channels will activate via the packs set DMX address channel. Set to "Ch:02" if you wish to set the device as a two channel pack- channels 1 & 2 will activate via the packs set DMX address channel and channels 3 & 4 will activate by the next DMX channel in sequence. Set to "Ch:04" if you wish to set the device as a four channel pack- each of the packs channels will individually be controlled via its own DMX channel starting with the set DMX address channel.
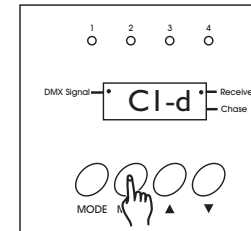

5. Press the MENU button to access dimmer / switch settings. The display will show "C1-d" or "C1-S". **Note: All packs are set to dimmer mode at the factory.**
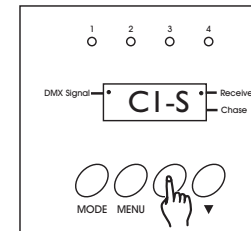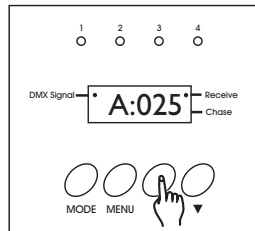

6. Press the up ▲ or down ▼ buttons to change between dimmer / switch modes. Once set, press the MENU button to confirm and advance to the following channel settings. Repeat these steps for all four channels. When complete, the DMX channel address setting will show in the display.

Operation Guide

Receive (DMX) Mode
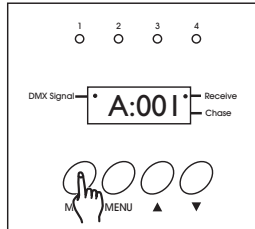
1. Press the MODE button to access receive (DMX) mode. An "A" in the display indicates receive mode. There will also be a small indicator illuminated on the top right side of the display next to the "Receive" text. In addition, if you've connected your DMX console to the pack, there will be a flashing indicator in the top left side of the display next to the "DMX Signal" text indicating that DMX signal is present.

2. Tap the up ▲ or down ▼ buttons to set your desired DMX channel address setting. Pressing and holding the up or down buttons will change the values in the display quickly. This is useful when trying to achieve higher channel values.
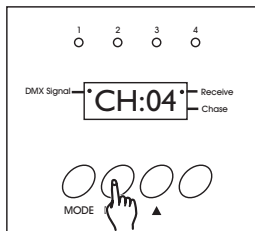

3. Press the MENU button to access the total DMX channel option setting. The display will show Ch:01, Ch:02 or Ch:04.

Controls & Functions

Front Panel Layout Cont.

6. Up Arrow ▲ Button: Pressing this button will increase any value listed in the display by one. Pressing and holding this button down will increase the displayed value quickly.

7. Down Arrow ▼ Button: Pressing this button will decrease any value listed in the display by one. Pressing and holding this button down will decrease the displayed value quickly.
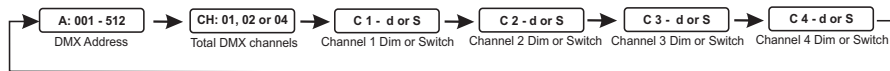
Rear Panel Layout
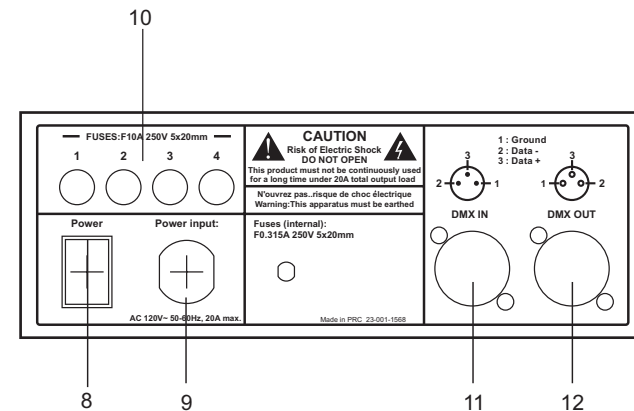
8. Power Switch:
This switch turns the device ON & OFF.

9. Power Input:
The line cord supplies power to the device. Plug into a 120V.-60Hz. Outlet.

10. Fuse Holders (1-4):
These fuse holders house one 10 amp, 120V, 5x20mm. fuse each. Each channel fuse protects the corresponding internal components from getting damaged if there were ever a short or voltage spike.

11. 3-pin XLR DMX Input Connector:
This input receives DMX signal from a DMX controller or previous device.

12. 3-pin XLR DMX Output Connector:
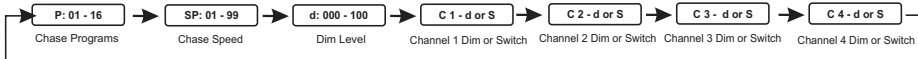This output feeds DMX signal through to the next DMX device in line.

Menu Options

*<u>Note:</u> Abbreviations within the display represent the following: **A**=Address, **C & CH**=Channel, **d**=Dimmer & Dim Level, **S**=Switch**, P**=Program, **SP**=Speed.
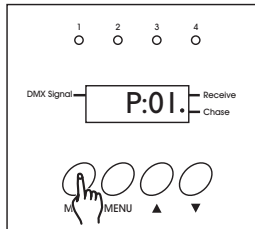
When in receive mode, press the MENU button to navigate through the menu options. Continually tapping the MENU button will loop through the following options.

| A: 001 - 512	→	CH: 01, 02 or 04	→	C 1 - d or S	→	C 2 - d or S	→	C 3 - d or S	→	C 4 - d or S
DMX Address		Total DMX channels		Channel 1 Dim or Switch		Channel 2 Dim or Switch		Channel 3 Dim or Switch		Channel 4 Dim or Switch

When in chase mode, press the MODE button to enter pre-programmed chase mode, continually tapping the MENU button will loop through the following options.

| P: 01 - 16	→	SP: 01 - 99	→	d: 000 - 100	→	C 1 - d or S	→	C 2 - d or S	→	C 3 - d or S	→	C 4 - d or S
Chase Programs		Chase Speed		Dim Level		Channel 1 Dim or Switch		Channel 2 Dim or Switch		Channel 3 Dim or Switch		Channel 4 Dim or Switch

Chase Mode

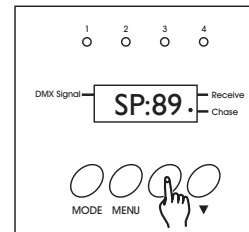1. Press the MODE button to access Chase mode. The indicator next to the Chase text will illuminate.
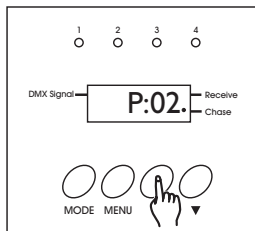
2. Tap the up ▲ or down ▼ buttons to scroll to the chase that you desire. There are sixteen built in chase programs to select from.
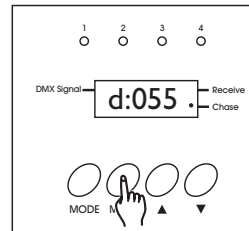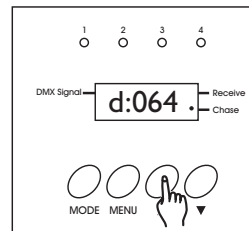
Chase Mode
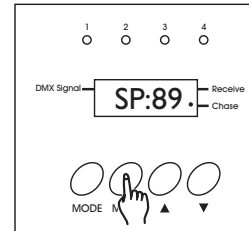
3. Press the MENU button to access the chase speed option.

4. Tap the up ▲ or down ▼ buttons to set your desired chase speed. The range is from 01-99. The higher the value, the faster the chase speed.

5. Press the MENU button to access the chase dimmer option. The dim levels range from 0 - 100%. A selected chases intensity will reflect the dim setting level.

6. Tap the up ▲ or down ▼ buttons to set your desired chase intensity. The higher the value, the brighter the intensity during chase playback.