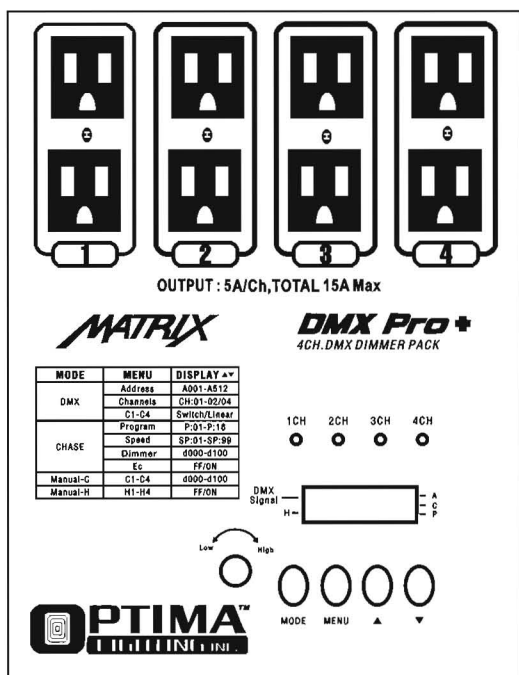


MATRIX

DMX PRO +

4CH DMX DIMMER PACK USER'S MANUAL



OPTIMATM

LIGHTING INC.

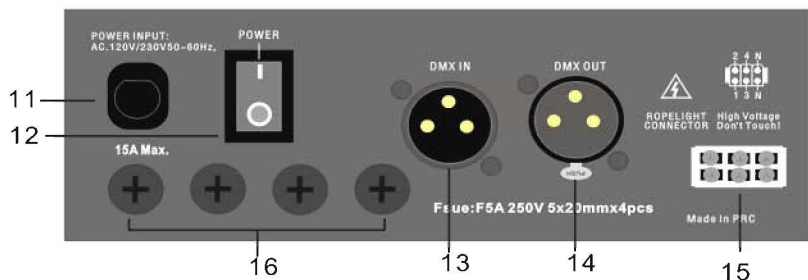
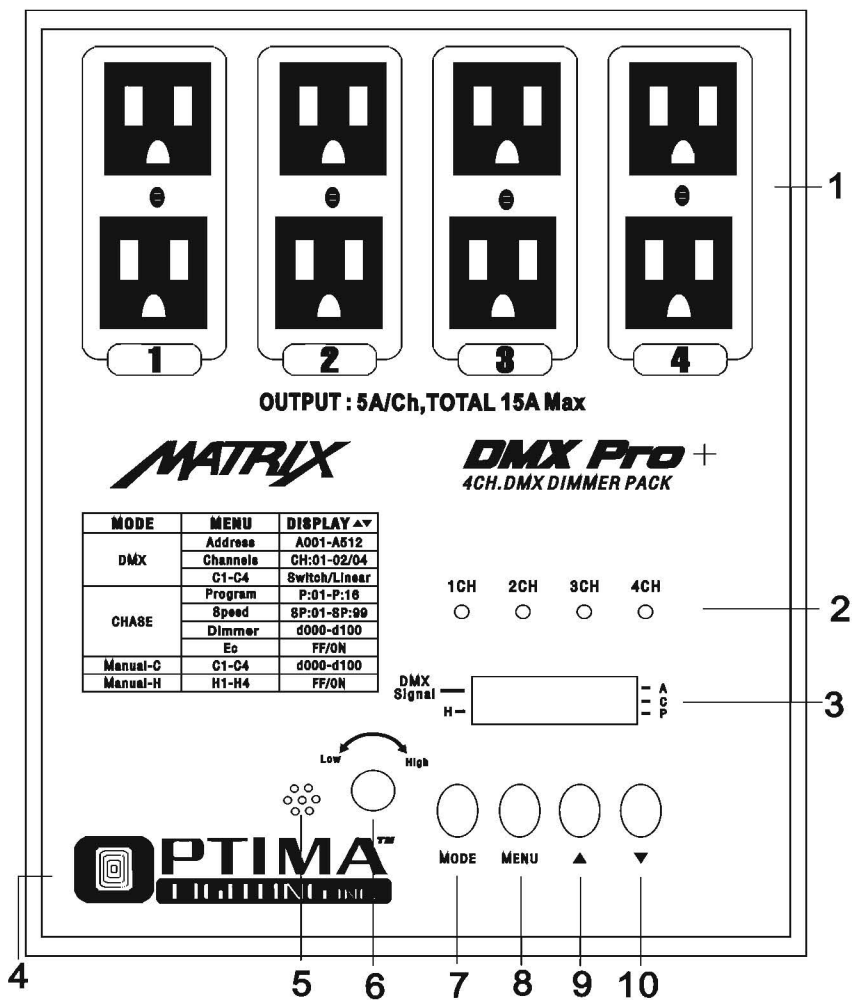
Thank you for purchasing the Optima Lighting 4 channel DMX dimmer pack. To ensure a durable and consistent performance of this product, please read these operating instructions carefully and familiarize yourself with the basic operations. This unit has been tested at the factory prior to shipping.

PRODUCT FEATURES:

- 3 pin XLR female and male connectors for DMX control
- One, two or four channel configuration option
- Dimming or switching setting of any channel in DMX or manual mode
- Digital display for easy setting and control
- Double output 110v grounded outlet per channel
- 16 built in preset programs
- Music mode with sound sensitivity knob
- Full manual control over each channel in DMX or manual mode
- 120v 60Hz / 230v 50Hz switch
- Rope light connection output
- On / off main power switch

CAUTION: There are no user serviceable parts inside. Do not attempt any repairs yourself. Doing so will void the manufacturer's warranty. In the unlikely event your unit may require service, please contact the manufacturer or the dealer you purchase the unit from.

FUNCTIONS AND CONTROLS



1. **110v grounded outlets**
2. **Green LED Indicators:** Indicators will illuminate when corresponding channel is activated.
3. **LCD Display:** This multifunction will display the setting and running mode of the unit.
4. **110V/220V Switch:** **Make sure the switch is set to the proper voltage setting prior to connecting your unit to the main power and turning it on.**
5. **Built-in microphone for sound control**
6. **Audio Sensitivity**
7. **Mode Button:** This button will switch the unit between "A" DMX mode "P" program mode "C" manual mode (dimming) and "H" manual mode (switching)
8. **MENU Button:** This button will activate different functions in DMX mode, program mode or manual mode.
9. **▲ Button:** This button will increase the value of the function you are controlling.
10. **▼ Button:** This button will decrease the value of the function you are controlling.
11. **Power Cord:** **Make sure the unit is set to the proper voltage setting prior to connecting your unit to the main power and turning it on.**
12. **Power Switch:** This switch controls the unit's main power.
13. **DMX Input:** This connector allows the input of DMX control signal.
14. **DMX Output:** This connector allows the output of DMX control signal to the next DMX device.
15. **ROPE LIGHT Connector**
16. **Fuse: F 5A 250V 5X20mmX4PCS**

OPERATION

The unit has four working modes:

1. DMX mode as a single channel, two channel or four channel Dimmer or switching pack.LED next to A will be on.
2. 4-channel chaser in auto mode or music mode. LED next to P will be on.
3. Manual dimming of any channel .LED next to C will be on.
4. Manual ON and OFF of any channel.LED next to H will be on.

POWER SUPPLY

Before plugging your unit to the main power please make sure the source voltage in your area matches the required voltage for your device. Because line voltage may vary from venue to venue,

DMX MODE A 001 -512:

(The LED next to the letter "A" on the display will turn ON)

In this mode you will be able to use your pack as a DMX dimmer or switching pack. This function will allow you to turn ON / OFF or control the intensity of a non-DMX fixture with the use of a DMX controller. You are able to set your dimmer / switching pack to function as a 1, 2, or 4 channel DMX pack, which means you can combine the output functions.

DMX Operation

1. Connect a DMX controller to your dimmer pack via the 3-pin XLR connector.
2. Connect your lighting fixture to any of the four power sockets on the front of the pack.
3. Decide if you are going to use your dimmer pack as 1, 2, or 4 channel pack. This function allows you to:
 - a. **CH:01** Controls the output to all four outlets with one DMX channel.
 - b. **CH:02** Group outlet channels one and two and channels three and four. The first group will be controlled by one DMX channel and the second group by another; this gives the pack a DMX value of two.
 - c. **CH:04** This is the default setting. Each channel is controlled by a individual DMX channel (all channels are set to dimming mode).
4. To change the packs function mode, be sure you are in DMX mode **Axxx**. Click the **MENU** button to select "CH" followed by two digits. Then use the **▲** or **▼** buttons to change the setting from 01, 02, or 04. To exit this "CH" mode click the **MENU** button 5 times, you will return to the address mode **Axxx**.
5. The dimmer pack is initially set to be activated by DMX address one (A001). To change this setting make sure you are in DMX mode, this will be indicated by an "A" character in the LCD followed by three numbers. Use the **▲** or **▼** buttons to select your desired DMX address (A001-A512).
6. Remember the DMX address tells your DMX controller what channel will activate the pack's functions.
7. Your pack is ready to operate via DMX and the LED next to the "DMX signal" will blink.
8. You are able to change the function of each channel to be dimming or switching regardless of the mode your pack is set to (CH:01, CH:02 or CH:04).
9. To change the channel to dimming or switching in DMX mode you will need to push the **MENU** button twice so your display will show C1:S or L. At this time you are at the setting of channel 1 where S = switching and L = dimming. To change the setting of this channel just push the **▲** or **▼** button. To go to next channel push the **MENU** button. The display will show the next channel C2:x. Click the **▲** and **▼** button to change your setting. Once you reach C4 click the **MENU** button you will return to the main DMX mode **Axxx**.

Keep in mind that if you leave your pack in any of the sub menu categories for more

than 30 seconds the pack will automatically return to the main menu Axxx.

CHASE MODE "P" 01 -16

(The LED next to the letter "P" on the display will turn ON)

Choose this mode only when you want the device to act as a 4-channel chaser. This device has 16 built-in programs. You can select to run any of these programs and control the chase speed (SP:01-99), the light output (d000-100) dimming or music mode (EC: FF or ON).

1. Connect your lighting fixture to any of the four channel power sockets on the pack. Keep in mind that if you connect lights on the same channel they will turn on at the same time.
2. Use the **MODE** button to select chase mode: Chase mode is indicated on LCD display as "P" followed by numbers 01-16. "P" stands for Program Applied. If an "A" appears in the LCD display, you are in DMX mode, "A" stands for address.
3. Once you have selected the chase program, use the **MENU** button to select your desired function:

SP – This function will control the speed your chase will run, minimum 01 maximum 99.

d – This function will control the light intensity of your program, 000 minimum 100 maximum (In d mode you will control the intensity of all 4 channels in an equal way).

EC – this will set your program to music mode ON or automatic mode FF. (In music mode you will need to set the microphone sensitivity to your preference).

4. You will be able to change the program, chase speed, light intensity or music mode setting by selecting the up ▲ or down ▼ button (All values will loop so once you reach the maximum value the next value will be the lowest or vice versa).

Keep in mind that if you leave your pack in any of the sub menu categories for more than 30 seconds the pack will automatically return to the main menu P:xx.

Manual dimming mode C:01-04:

(The LED next to the letter "C" on the display will turn ON)

In this mode you will be able to dim any of the 4 channels manually. Click the **MODE** button until you get to the "C" mode. Select the channel you would like to control by clicking the ▲ or ▼

button. Once you reach the desired channel click the **MENU** button and the display will show the current manual dimming value for the selected channel **dxxx**. Push the ▲ or ▼ to change the intensity of the light connected to this channel. Keep in mind that you will be able to loop thru the value 000 – 100 just by holding or clicking the ▲ or ▼ button.

Once you are in the **dxxx** mode and would like to control your next channel, click the **MENU** button. That will get you back to the **C:xx** mode. Select the desired channel with the ▲ or ▼ button and then click the **MENU** button that will bring you to the **dxxx** mode and you will be able to control the light intensity.

If you do not change any value in the dxxx mode for more than 30 seconds the unit will return to the main menu C:xx

Manual ON / OFF mode H:01-04:



(The LED next to the letter "H" on the display will turn ON)

In this mode you will be able to turn any of the channels ON and OFF manually. Click the mode button until you get to the "H" mode; select the channel you would like to control by clicking the ▲ or ▼ button. Once you reach the desired channel, click the menu button and the display will show the current mode for the selected channel H:On or H:OFF. To control the light connected to that channel, click the ▲ button to turn it ON or the ▼ button to turn it Off. Once you are in the ON or OFF mode and would like to control your next channel, just click the menu button and you will be back at the channel control mode **H:xx**.

If you do not change any value in the ON or OFF mode for more than 30 seconds the unit will return to the main menu H:xx

To exit back to the DMX mode just click the mode button.

DISPLAY FLOW CHART

MODE	▲ ▼	MENU	▲ ▼
A :xx	001-512 loop	CH :xx	1-2-4 loop
		C1 :x	L or S
		C2 :x	L or S
		C3 :x	L or S
		C4 :x	L or S
		A :xx	001-512 loop
P :xx	01-16 loop	SP :xx	01-99 loop
		d :xx	000-100 loop
		EC :xx	FF or ON
		P :xx	01-16 loop
C :xx	01-04 loop	d :xx	000-100 loop
H :xx	01-04 loop	ON or OFF	ON or OFF
A :xx			



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