

DMX-4 Dimmer/Relay Pack

USER MANUAL



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BEFORE YOU BEGIN

What is included

- 1 x DMX-4 Dimmer/Relay Pack
- 1 x Detachable power cord (IEC 60320 C-13)
- 1 x User manual
- 1 x Warranty Card

Unpacking Instructions

Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

AC Power

The DMX-4 may accept multiple voltages (100V-240V) without the need of a voltage selection switch. This applies to the electronics in the fixture. However, this will not change the voltage being supplied to the load.

Note: Load voltage will match input voltage.

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power to a fixture, check that the source voltage matches the fixture's requirement. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Warning! *Verify that the power supplied to the DMX-4 matches the power to your load.*

Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance?



- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage and that the line voltage you are connecting to is not higher than that stated on decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature is $T_a: 40^\circ$. Do not operate fixture at temperatures higher than this.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to a dimmer pack.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to lamp while it is on.

Caution! *There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET.*

INTRODUCTION

Features

- 4 channels DMX-512 dimmer/relay pack
- 2 Edison plugs per channel
- Each channel can be set as either dimmer or relay
- Each channel can be set to any DMX address
- 16 user-selectable chase patterns
- Variable electronic dimmer (0-100%)
- Adjustable speed control and dimming with or without DMX
-

DMX Channel Summary

CHANNEL	FUNCTION
1	Dimmer or Switch
2	Dimmer or Switch
3	Dimmer or Switch
4	Dimmer or Switch

Product Overview

Output

10 Amps 115V/Ch, 15A max load
5 Amps 230V/Ch, 10A max load

Button Reference

This is a quick reference of button functions and what they display.

Power Switch

On/Off switch

Power Input

Supplied with IEC 60320 C-14 receptacle for detachable power cord

Fuses

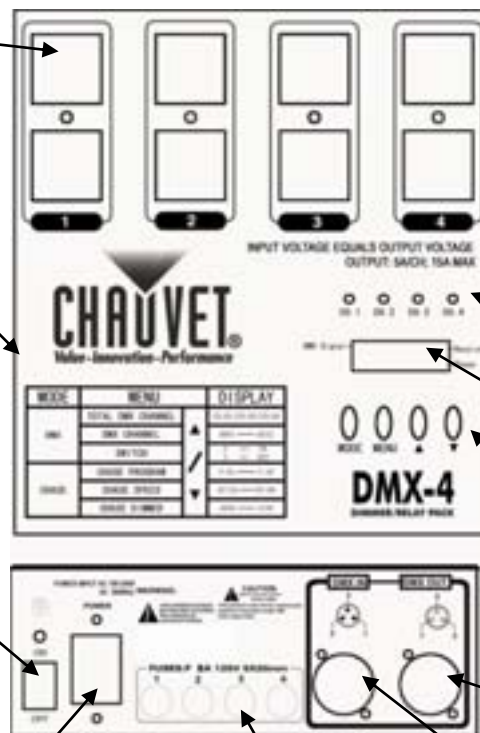
20mm Glass 10A 125V
20mm Glass 6.3A 250V

DMX In

Locking 3-pin XLR male socket

DMX Out

Locking 3-pin XLR female socket



Hanging Bracket

Six holes provide different positions for mounting a pipe clamp



LED Indicator

4 LED channel activity indicators

LED Segment

Displays current activity or function state

Menu Buttons

Displays current activity or function state

SETUP

Power

Your product is capable of operating on AC 100-240V. But, please be aware that your output voltage equals your input voltage. This means that if you have the DMX-4 plugged into 120V of power, then you will be sending 120V output to any fixture that you plug into one of the 8 outlets. Likewise, if you have the fixture plugged into 208v, then you will get 208V out from the 8 outlets.

- To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart.
- A fixture's listed current rating is its average current draw under normal conditions.
- All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch.
- Before applying power to a fixture, check that the source voltage matches the fixture's requirement.
- All fixtures must be connected to circuits with a suitable Earth Ground.

Mounting

ORIENTATION

This fixture may be mounted in any safe position provided there is adequate room for ventilation.

RIGGING

It is important never to obstruct the fan or vents pathway. Mount the fixture using a suitable "C" or "O" type clamp. Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

- When selecting installation location, take into consideration lamp replacement access and routine maintenance.
- Safety cables should always be used.
- Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.

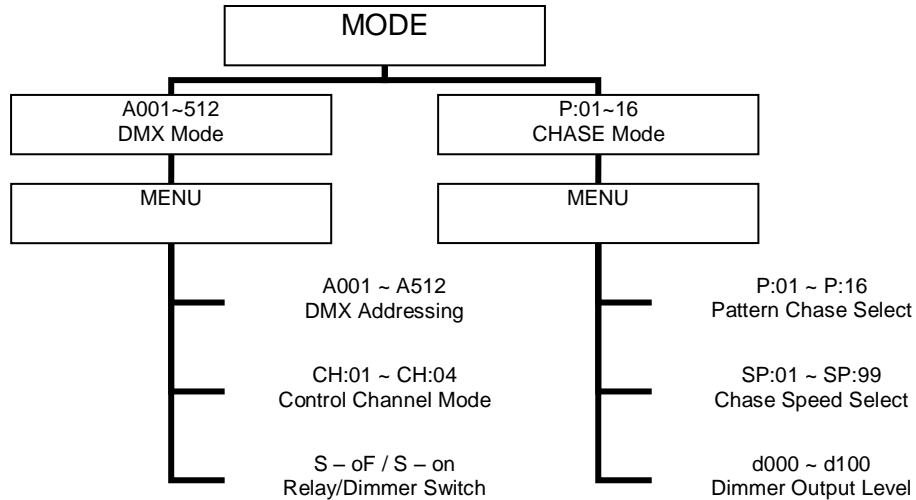
Figure 1 - Hanging Clamp



Note!
Clamp is sold separately.

OPERATING INSTRUCTIONS

Menu Navigation



Operating Modes

The DMX-4 can be controlled using any universal DMX-512 controller. There are also 16 preset chase programs that a user can select for stand alone operation (Chase Mode).

Running in Chase Mode

SELECT PATTERN CHASE

- 1) Press the **MODE** button until the display reads {P:nn}, where n represents a number between 01 and 16.
- 2) Press the (**▲ Button**) and (**▼ Button**) to increase or decrease values representing chase patterns.

ADJUST THE SPEED

- 1) Press the **MODE** button until the display reads {P:nn}, where n represents a number between 01 and 16.
- 2) Press the **MENU** button until the display reads {SP:nn}, where n represents a number between 01 and 99.
- 3) Press the (**▲ Button**) and (**▼ Button**) to increase or decrease values until the desired speed is achieved.

ADJUST INTENSITY

- 1) Press the **MODE** button until the display reads {P:nn}, where n represents a number between 01 and 16.
- 2) Press the **MENU** button until the display reads {dnnn}, where n represents a number between 000 and 100.
- 3) Press the (**▲ Button**) and (**▼ Button**) to increase or decrease values until the desired intensity is achieved.

Running in DMX Mode

This DMX mode enables the use of a universal DMX controller device. Each fixture requires a "start address" that can be set from 001 to 512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 6 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, and 105. Choose start addresses so that the channels used do not overlap and notate the start address selected for future reference.

If this is your first time addressing a fixture using the DMX-512 control protocol than I suggest jumping to the Appendix Section and read the heading "DMX Primer". It contains very useful information that will help you understand its use.

SELECT DMX MODE & SET STARTING ADDRESS

- 1) Press the **MODE** button until the display reads {Annn}, where n represents a number between 001 and 512.
- 2) Press the (**▲ Button**) and (**▼ Button**) to increase or decrease values until the desired DMX starting address is achieved.

OPTIONAL DIMMER/RELAY SETTING

- 1) Press the **MODE** button until the display reads {Annn}, where n represents a number between 001 and 512.
- 2) Press the **MENU** button until the display reads {S-nn}, where nn represents either (oF) for switching off or (oN) for switching on.
- 3) Press the (**▲ Button**) and (**▼ Button**) to toggle between {S-oN} and {S-oF}.

DMX CONTROL CHANNEL MODES

- 1) Press the **MODE** button until the display reads {Annn}, where n represents a number between 001 and 512.
- 2) Press the **MENU** button until the display reads {CH:nn}, where n represents a number between 01 and 04.
- 3) Press the (**▲ Button**) and (**▼ Button**) to increase or decrease values to select a desired channel output

SELECTION	BEHAVIOR
CH:01	DMX channel 1 will control outputs (1 through 4 combined)
CH:02	DMX channel 1 will control outputs (1 and 2 combined) DMX channel 2 will control outputs (3 and 4 combined)
CH:04	DMX channels 1 through 4 will control outputs 1 through 4 respectively

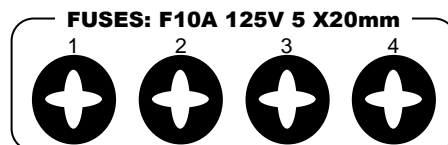
Replacing a fuse



Disconnect the power cord before replacing a fuse and always replace with the same type fuse.



With a Phillips head screwdriver unscrew the fuse holder until it can be entirely removed. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.



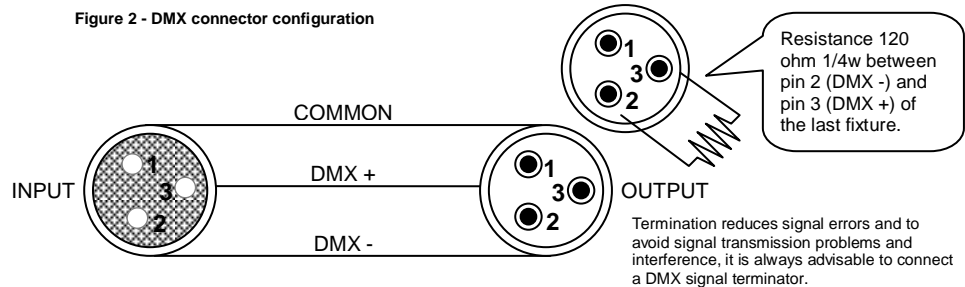
APPENDIX

DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX 512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+). CHAUVET carries 3-pin XLR DMX compliant cables, DMX-10 (33'), DMX-4.5 (15') and DMX-1.5 (5')

FIXTURE LINKING



Note!

If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. Chauvet Model No: DMX5M. The chart below details a proper cable conversion:

3 PIN TO 5 PIN CONVERSION CHART

CONDUCTOR	3 Pin Female (output)	5 Pin Male (Input)
GROUND/SHIELD	Pin 1	Pin 1
DATA (-) SIGNAL	Pin 2	Pin 2
DATA (+) SIGNAL	Pin 3	Pin 3
DO NOT USE		Do not use
DO NOT USE		Do not use

DMX Channel Values

Channel	Value	Function Dimmer or Switch
1	000 ⇔ 255	Off > Full Intensity/On
2	000 ⇔ 255	Off > Full Intensity/On
3	000 ⇔ 255	Off > Full Intensity/On
4	000 ⇔ 255	Off > Full Intensity/On

Maintenance

To maintain optimum performance and minimize wear fixtures should be cleaned frequently. Usage and environment are contributing factors in determining frequency. As a general rule, fixtures should be cleaned at least twice a month.

Unplug fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components.

Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RA #). Products returned without an RA # will be refused. Call CHAUVET and request RA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

General Troubleshooting

Symptom	Solution(s)	Applies to			
		Lights	Foggers & Snow	Controllers	Dimmers & Chaser
Auto shut off	Check fan thermal switch reset	✓			
Beam is very dim or not bright	Clean optical system or replace lamp Check 220/110v switch for proper setting	✓			
Breaker/Fuse keeps blowing	Check total load placed on device				✓
Chase is too slow	Check users manual for speed adjustment	✓		✓	✓
Device has no power	Check for power on Mains. Check device's fuse. (internal and/or external)	✓		✓	✓
Fixture is not responding	Check DMX Dip switch settings for correct addressing Check DMX cables Check polarity switch settings	✓			
Fixture is on but there is no movement to the audio	Make sure you have the correct audio mode on the control switches. If audio provided via 1/4" jack, make sure a live audio signal exists Adjust sound sensitivity knob	✓		✓	✓
Lamps cuts off sporadically	Possible bad lamp or fixture is overheating. Lamp may be at end of its life.	✓			
Light will not come on after power failure	Some discharge lamps require a cooling off period before the electronics in the fixture can kick start it again, wait 5 to 10 minutes before powering up	✓			
Loss of signal	Use only DMX cables Install terminator Note: Keep DMX cables separated from power cables or black lights.	✓	✓	✓	✓
Motor movements are jerky or jumpy	Possible bad motor driver or sensors Check polarity switch on controller	✓		✓	
Moves slow	Check 220/110v switch for proper setting	✓			
No flash	Re-install bulb, may have shifted in shipping	✓			
No light output	Check slip ring & brushes for contact Install bulb Call service technician	✓			
Relay will not work	Check reset switch Check cable connections				✓
Remote does not work	Make sure connector is firmly connected to device	✓	✓		
Stand alone mode	All Chauvet lighting fixtures featuring stand-alone functions do not require additional settings, simply power the fixture and it will automatically enter into this mode	✓			
Unit wobbles when rotating	Check for damages possibly incurred during shipping	✓			

Technical Specifications

WEIGHT & DIMENSIONS

Length	210 mm (8.25 in)
Width	194 mm (7.65 in)
Height	70 mm (2.75 in)
Weight	2.3 Kg (5 lbs)

POWER

AC Input	Autoswitching 100V-240V 50/60 Hz
AC input	removable 3-prong IEC 60320 C14
AC outputs	(8) NEMA 5-15R receptacles
AC output	5A/Channel, Max 15A

CONTROL & PROGRAMMING

Data input	locking 3-pin XLR male socket
Data output	locking 3-pin XLR female socket
Data pin configuration	pin 1 shield, pin 2 (-), pin 3 (+)
Protocols	DMX-512 USITT
DMX Channels (Mode CH:04)	4
DMX Channels (Mode CH:02)	2
DMX Channels (Mode CH:01)	1

ORDERING INFORMATION

Dimmer/Relay Pack	DMX4
Fuse 10A	P170FUSE010
Fuse 6.3A	P170FUSE007

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