PRO-D6

There are 2 different versions of this product. The first version has a red LED display, while the second version has a blue LCD display. Both versions of the user manual are available for download on the Chauvet® website. Please be sure that you are working with the appropriate version of the manual.

Snapshot

Outdoor Use	⊘
Sound Activated	⊘
DMX	✓
Master/Slave	⊘
Auto-ranging 100~240 VAC, 50/60 Hz	✓
Circuit Breaker	✓
User Serviceable	⊘
Duty Cycle	⊘

User Manual

CHAUVET
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TABLE OF CONTENTS

1. BEFORE YOU BEGIN

What is included

- 1 x Pro-D6
- 1 x Warranty Card
- 1 x User Manual

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

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! ***All fixtures must be connected to circuits with a suitable Earth Ground.***

Notes! ***Input voltage equals output voltage***

Line A must be used when only one line is needed in order for the unit to function properly.

Safety Instructions

Please read these instructions carefully, which include important information about the installation, usage and maintenance of this product.

- 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.
- 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 20in (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 the cables. Use its carrying handles.
- Maximum ambient temperature (Ta) is 104° F (40° C). Do not operate fixture at temperatures higher than this.
- In the event of a 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.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.

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 at: 954-929-1115.***

2. INTRODUCTION

Features

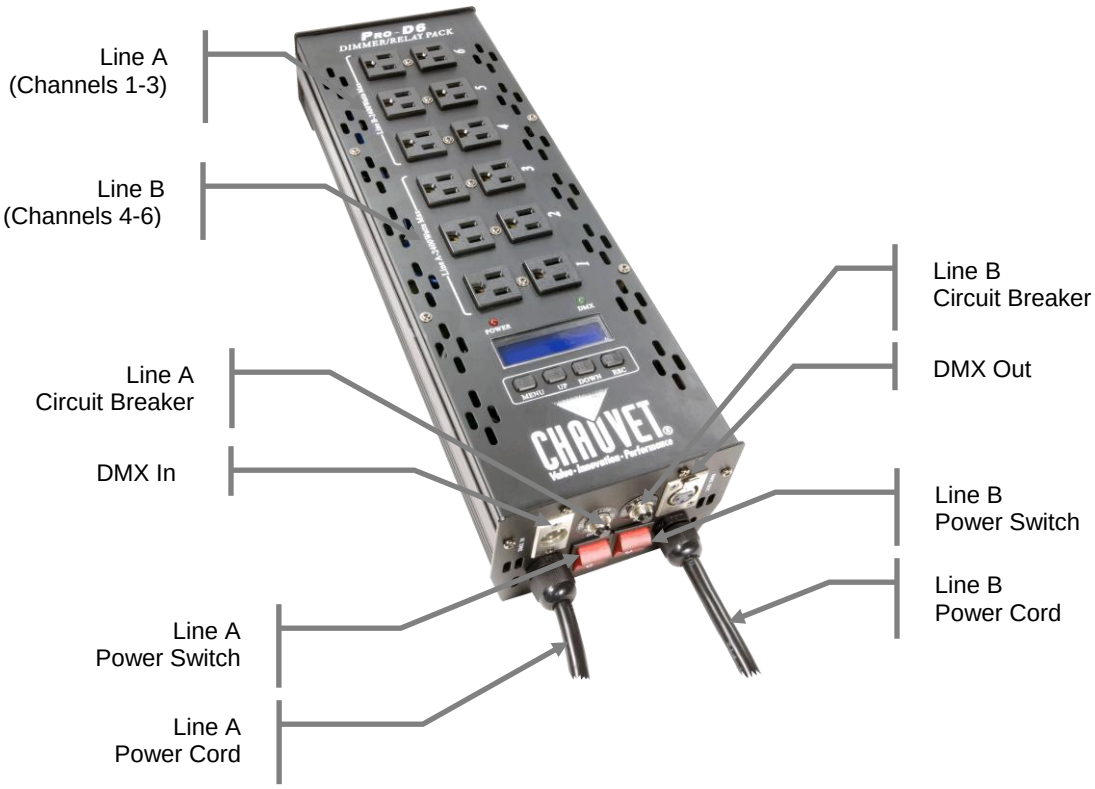
CONTROL FEATURES

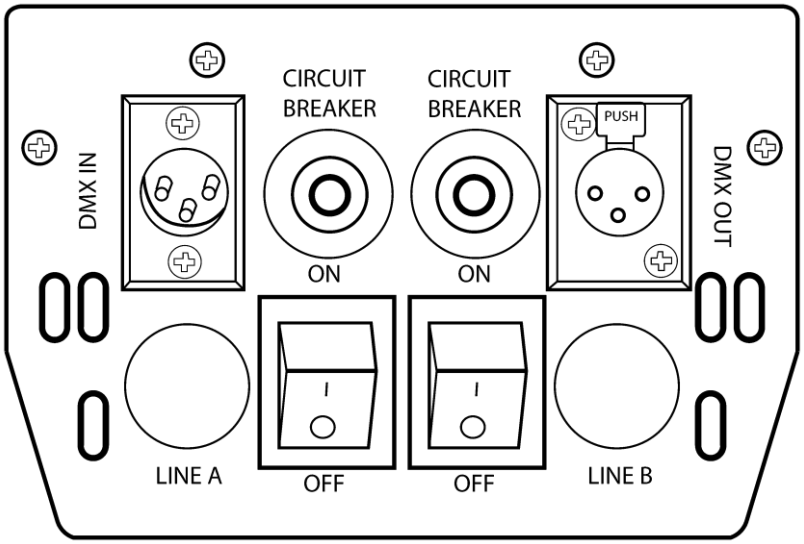
- 6-channel DMX-512 dimmer / relay pack
- Each channel can be set to any DMX address
- Each channel can be set as either dimmer or relay
- Variable electronic dimmer (0-100%)

ADDITIONAL FEATURES

- Dimmer curve selection for each channel: square, switch or linear
- Dual 20 A power lines (requires 2 separate circuits)
- Individual switch, circuit breaker and plug per line
- Accommodates different input voltages simultaneously
- 2 Edison plugs per channel

Product Overview





3. SETUP

Fixture Linking

You will need a serial data link to run light shows of one or more fixtures using a DMX-512 controller, or to run synchronized shows on two or more fixtures set to a master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Important: ***Fixtures on a serial data link must be daisy chained in one single line. To comply with the EIA-485 standard no more than 32 devices should be connected on one data link. Connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.***

Maximum recommended serial data link distance: 500 meters (1640 ft.)
Maximum recommended number of fixtures on a serial data link: 32

Data Cabling

To link fixtures together you must obtain data cables. You can purchase CHAUVET® certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

DMX Data Cable

Use a Belden© 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable must have the following characteristics:

Type: shielded, 2-conductor twisted pair
Maximum capacitance between conductors: 30 pF/ft.
Maximum capacitance between conductor and shield: 55 pF/ft.
Maximum resistance: 20 ohms / 1000 ft.
Nominal impedance: 100 – 140 ohms

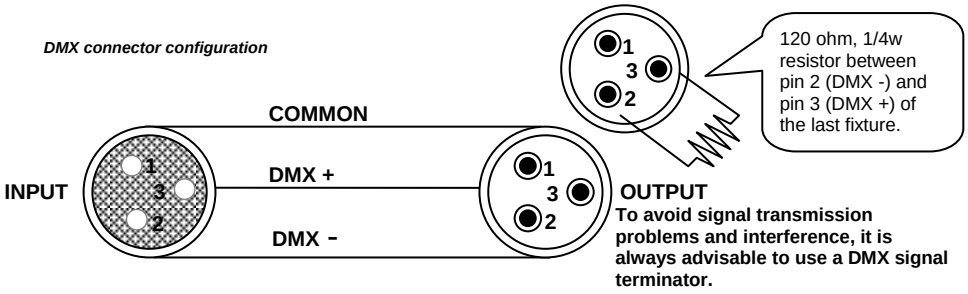
Power connection

The Pro-D6 has been designed to work on multiple input voltages (100-240VAV 50/60Hz) simultaneously, and comes fitted with 20 amp connectors for this purpose. For example, Line A can be plugged into 120V and Line B can be plugged into 230V. Any voltage between 100-240 volts may be used.

The power for the Line A and the Line B circuits must share the same electrical phase. The unit will not operate properly if they are on different phases.

Cable Connectors

Cabling must have a male XLR connector on one end and a female XLR connector on the other end.



CAUTION! ***Do not allow contact between the common wire and the fixture's chassis ground. Grounding the common wire can cause a ground loop, and your fixture may perform erratically. Test cables with an ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.***

3-Pin to 5-Pin Conversion Chart

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.***
The chart below details a proper cable conversion:

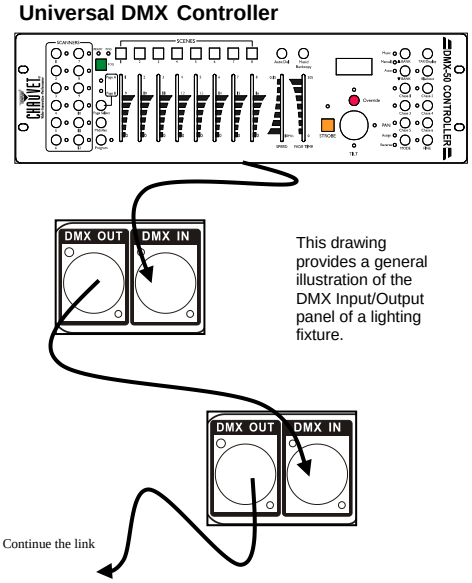
3-PIN TO 5-PIN CONVERSION CHART

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
Not used		Pin 4
Not used		Pin 5

Setting up a DMX Serial Data Link

1. Connect the (male) 3-pin connector side of the DMX cable to the output (female) 3-pin connector of the controller.
2. Connect the end of the cable coming from the controller which will have a (female) 3-pin connector to the input connector of the next fixture consisting of a (male) 3-pin connector.
3. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

Universal DMX Controller



Mounting

Orientation

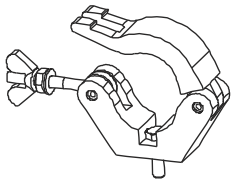
This fixture may be mounted in any position provided there is adequate room for ventilation.

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 must always be used.
- Never mount in places where the fixture will be exposed to rain, high humidity, extreme temperature changes or restricted ventilation.

Hanging Clamp



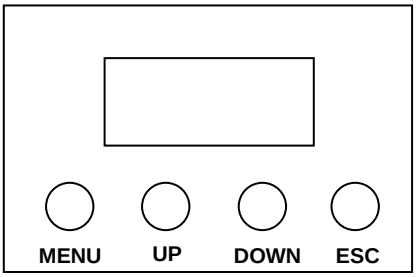
Note!
Clamp is sold separately.

4. OPERATING INSTRUCTIONS

Navigating the Control Panel

Access control panel functions using the four panel buttons located directly underneath the LCD Display.

Button	Function
<MENU>	Used to select and store the current menu or option within a menu
<UP>	Scrolls through menu options in ascending order
<DOWN>	Scrolls through menu options in descending order
<ESC>	Used to return to a previous menu option



The Control Panel LCD Display shows the menu items you select from the menu map. When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press **<MENU>**.

Pressing the **<ESC>** button will allow access to the top of the menu map. Use the **<UP>** and **<DOWN>** buttons to navigate the menu map and menu options. Press the **<MENU>** button to access the menu function currently displayed, or to enable a menu option. To return to the previous option or menu without changing the value, press the **<ESC>** button.

Menu Functions

MAIN FUNCTION	SUB-FUNCTION	SELECTION	INSTRUCTION
Dmx fail	Hold	Speed time Value=00.2s-20.0s	Select how the product will react if there is no DMX detected
	Prog1-12		
	Blackout		
Dmx address	Block	Start addr Value=[001-512]	Select a DMX starting address
	Single	CH[01-06] Value=[001-512]	Select a separate DMX address for each channel
Preheat	ALL	[000-050%]	Select a preheat percentage for all channels
	Single	CHAN[01-06] Value=[000-050%]	Select a preheat percentage for each channel independently
Max level	ALL	[000-100%]	Select a maximum operation level for all channels
	Single	CHAN[01-06] Value=[000-100%]	Select a maximum operation level for each channel independently
Curve	ALL	SWITCH-LINEAR	Select operation mode for all channels: dimmer (0-100%) or relay (0/100%)
	Single	CHAN[01-06] SWITCH-LINEAR	Select operation mode for each channel independently: dimmer (0-100%) or relay (0/100%)
Manual	ALL	[000-100%]	Manually manipulate the output of all channels simultaneously
	Single	CHAN[01-06] Value=[000-100%]	Manually manipulate the output of each channel independently

User Configurations

To set the DMX address

1) Select “Dmx address” by pressing **<Menu>,** then the **<Up/Down>** buttons, until the display reads correctly.
2) Press **<Menu>** to reach the second step of the addressing menu.
3) Use the **<Up/Down>** buttons to select Block or Single mode.
4) Press the **<Menu>** button.
5) Use the **<Up/Down>** buttons to select the correct value. Once you are satisfied with your input, press **<Menu>**to confirm your selection.
6) Pressing the **<Esc>** button will allow you to back out of this menu. This is useful if you wish to select the option for setting each channel to a different dmx address.

General Troubleshooting

Symptom	Solution(s)	Applies to			
		Lights	Foggers & Snow	Controllers	Dimmers & Chaser
Auto shut off	Check fan thermal switch reset	✓			
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 ¼" jack, make sure a live audio signal exists Adjust sound sensitivity knob	✓		✓	✓
Loss of signal	Use only DMX cables Install terminator Note: Keep DMX cables separated from power cables or black lights.	✓	✓	✓	✓
Relay will not work	Check circuit breaker reset switch Check cable connections				✓

If you still have a problem after trying the above solutions, please contact CHAUVET Technical Support at the location on the next page.

Contact Us

World Wide

General Information

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toll free: 800.762.1084

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Hollywood, FL 33020
voice: 954.929.1115 **(Press 4)**
fax: 954.929.5560 **(Attention: Service)**

World Wide Web

www.chauvetlighting.com

5. 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 more sequential channels. The user must assign a starting address on the fixture to indicate 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')

General Maintenance

To maintain optimum performance and minimize wear, fixtures should be cleaned frequently. Usage and environment are contributing factors in determining cleaning frequency. As a general rule, fixtures should be cleaned at least twice a month. Dust build up reduces light output performance and can cause overheating. This can lead to reduced lamp life and increased mechanical wear. Be sure to power off the fixture before conducting maintenance.

Unplug the fixture from power. Use a vacuum or air compressor and a soft brush to remove dust collected on external vents and internal components. Clean all glass when the fixture is cold with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue. Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens. Gently polish optical surfaces until they are free of haze and lint.

The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. - Always dry the parts carefully. - Clean the external optics at least every 20 days. Clean the internal optics at least every 30/60 days.

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 (RMA #). Products returned without an RMA # will be refused. Call CHAUVET and request an RMA # before 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. As a suggestion, proper UPS packing or double-boxing is always a safe method to use. CHAUVET reserves the right to use its own discretion to repair or replace product(s).

Note: If you are given an RMA #, please include the following information on a piece of paper inside the box:

1) Your name
2) Your address
3) Your phone number
4) The RMA #
5) A brief description of the symptoms

Claims

Damage incurred during 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 during 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.

Technical Specifications

WEIGHT & DIMENSIONS

Length	18 in (457 mm)
Width	5.8 in (147 mm)
Height	3.8 in (97 mm)
Weight	9.7 lbs (4.4 kg)

POWER

Auto-ranging (input voltage equals output voltage)	100-240VAC 50/60Hz
Maximum power output (per channel)	10A
Circuit breaker (Line A)	20A
Circuit breaker (Line B)	20A
Maximum load	40A

THERMAL

Maximum ambient temperature	104°F (40°C)

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

ORDERING INFORMATION

Pro-D6	PROD6

WARRANTY INFORMATION

Warranty	2-year limited warranty

The power for the Line A and the Line B circuits must share the same electrical phase. The unit will not operate properly if they are on different phases.