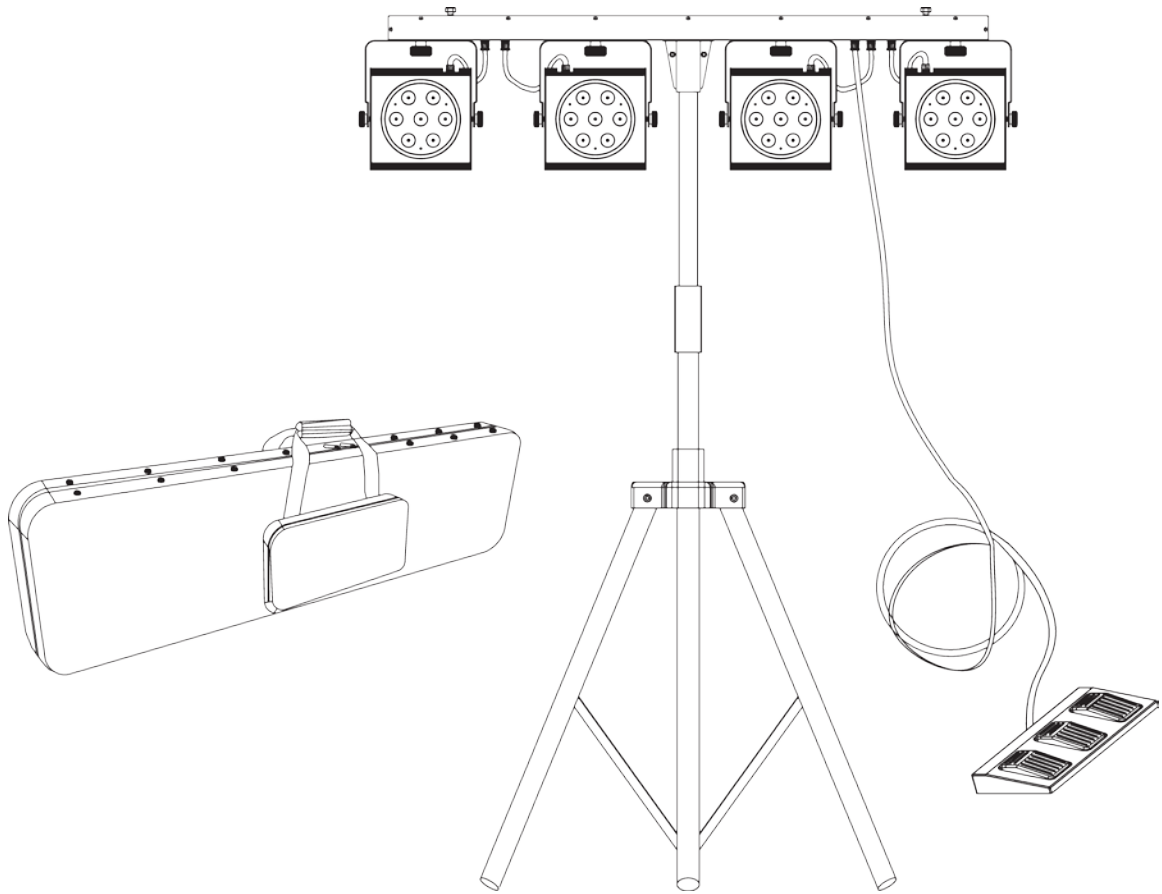


# 4BAR™ Tri

User Manual

*It's Green Thinking*



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**Author: Anthony Chiappone**

**Revision: 01**

**Release Date: 01-13-2011**

# 1. BEFORE YOU BEGIN

## What is included

- 1 x 4BAR™ TRI
- 1 x Carrying Case (4BAR™ TRI)
- 1 x Tripod Stand
- 1 x Carrying Case (Tripod)
- 1 x Footswitch
- 1 x Power Cord
- 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.




## Manual Conventions

CHAUVET® manuals use the following conventions to differentiate certain types of information from the regular text.

CONVENTION	MEANING
[10]	A DIP switch to be configured
<Menu>	A key to be pressed on the fixture's control panel
1-512	A range of values
50/60	A set of values of which only one can be chosen
<b>Settings</b>	A menu option not to be modified (for example, showing the operating mode/current status)
<b>MENU&gt;Settings</b>	A sequence of menu options to be followed
<b>ON</b>	A value to be entered or selected

## Icons

This manual uses the following icons to indicate information that requires special attention on the part of the user.

ICONS	MEANING
	This paragraph contains critical installation, configuration or operation information. Failure to comply with this information may render the fixture partially or completely inoperative, cause damage to the fixture or cause harm to the user.
	This paragraph contains important installation or configuration information. Failure to comply with this information may prevent the fixture from functioning correctly.
	This paragraph reminds you of useful, although not critical, information.

## Safety Instructions

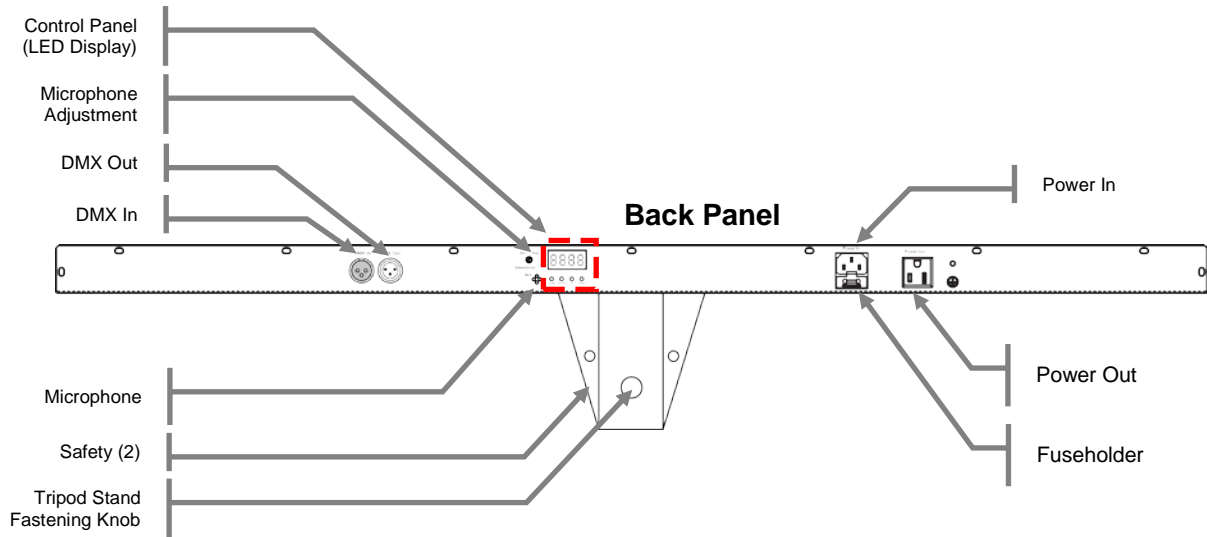


Please read these instructions carefully. It includes important information about the installation, usage and maintenance of this product.

- Please keep this User Manual 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 the 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 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing fuse and be sure to replace with same fuse source.
- Secure fixture to fastening device using a safety chain.
- 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.
- Never connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Never carry the fixture directly from the cord. Always use the hanging/mounting bracket.
- Avoid direct eye exposure to the light source while it is on.

# 2. INTRODUCTION

## Product Overview



# 3. SETUP

## AC Power

This fixture is auto-ranging and runs on 100~240 VAC, 50/60 Hz 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 indicates its average current draw under normal conditions.



***Always connect the fixture to a switched circuit. Never connect the fixture to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used only as a 0 to 100% switch.***



***Always connect the fixture to a circuit with a suitable electrical ground.***

## Fuse Replacement

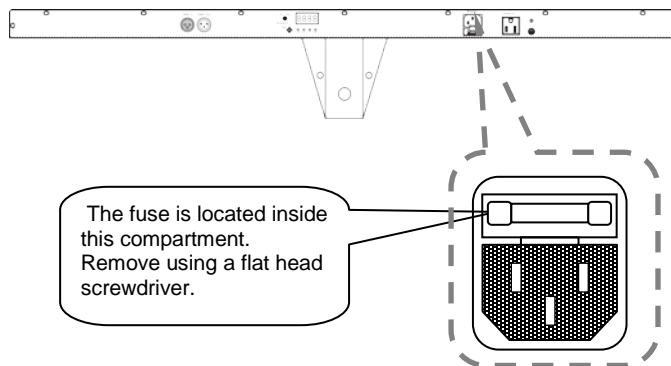


***Disconnect the power cord before replacing a fuse.***



***Always replace with the same type & rating fuse!***

1. With a flat head screwdriver wedge the fuse holder out of its housing.
2. Remove the damaged fuse from its holder and replace with exact same type fuse.
3. Insert the fuse holder back in its place and reconnect power.



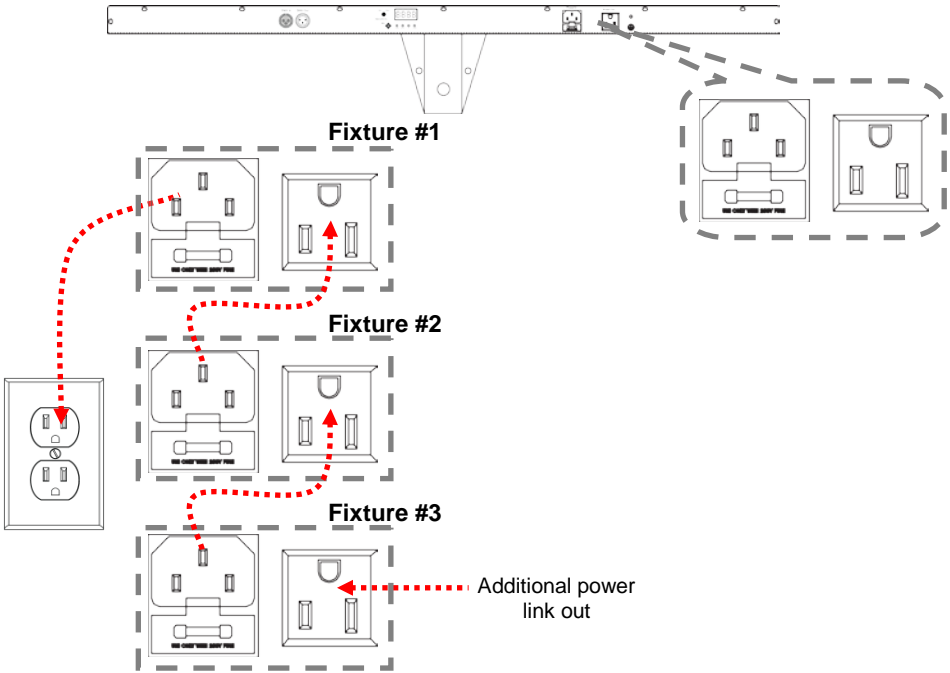
# Power Linking

This fixture contains power linking via the Edison outlet located in front of the power input cable.

Please see the diagram below for further explanation.



**The maximum quantity of 4BAR™ TRIs that may be linked is 8 units @ 120V, 16 units @ 230V**



**The power linking shown in this document is for the CHAUVET® North American version ONLY! Therefore, it is the customer's responsibility to check with the Dealer/Distributor regarding power linking on the local version of the product. Connections and availability may change, depending on the power requirements and/or regulations of each country/region.**

## Mounting

### Orientation

The 4BAR™ TRI may be mounted in any position, provided there is adequate room for ventilation.

### Rigging

This fixture has multiple rigging options. They are as follows:

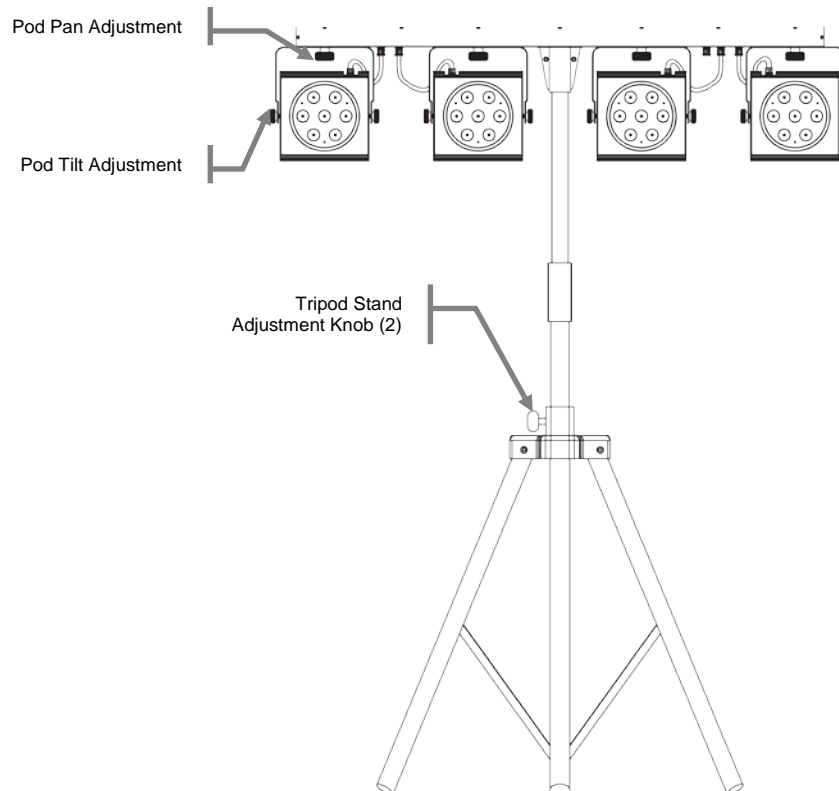
- Floor Standing (using the two mounting/standing brackets)
- Hanging (using the two mounting/standing brackets)
- Hanging (using the two hanging clamp Mounting points)

Be sure that the structure can support the weight of the fixture. Please see the “Technical Specifications” section of this manual for a detailed weight listing. Mount the fixture securely. This may be done with a screw, nut and bolt, or a mounting clamp.

The hole in each bracket is 13 mm in diameter.

When rigging, consider routine maintenance and control panel access. Please see the following notes on installation.

- If the power link out is intended to be used with multiple fixtures, take into account the length of each power cable, and mount the fixtures close enough to one another to accommodate for this.
- When aiming the fixtures, use the bracket/yoke adjustment knobs. Loosen the knobs, adjust to the desired angle, and then tighten the knobs by turning them clockwise. Do not use tools for this step, as it may cause damage.
- Safety cables must always be used!





# 4. OPERATING INSTRUCTIONS

## Using the Control Panel

Access control panel functions using the four buttons located directly underneath the LED display.

BUTTON	FUNCTION
<MENU>	Used to scroll through the current operating mode, as well as back out of the current menu option
<DOWN>	Used to select a decreasing value
<UP>	Used to select an increasing value
<ENTER>	Used to activate a selection and store it to memory



## Menu Map

Menu	Selection 1	Selection 2	Description
DMX Mode	512		DMX Operation
		d001~d512	Select the DMX starting address
Sound-active	SND		Trigger the built-in program to the beat of the music, using the internal microphone
Preset Color	C--	C__1~7	Select one of the preset colors: red, green, blue, cyan, magenta, yellow, white
Automatic Program Selection	P--	P__1~6	Trigger the built-in programs
Automatic Speed	S--	S001~S100	Adjust the speed of the automatic program
Custom Color	U--	r 00~100	Adjust the red, green, & blue levels to create a custom color
		G 00~100	
		b 00~100	

## Configuring the Starting Address

The 4BAR™ TRI fixture uses **15** DMX channels. In this DMX configuration/personality, the highest configurable address is **498**. Any address higher than this will prevent access to all of the channels while in this mode; however, if you desire to use one of the other DMX configurations (personalities), please consider the total DMX channels when selecting a DMX address.

If this is your first time using DMX, we recommend reading the “DMX Primer” section in the “Appendix”.

# Operation

## DMX Operation

This operating mode will allow for DMX control. You must set the starting address for this mode.

If this is your first time using DMX, then it is recommended that you refer to the “DMX Primer” section in the “Appendix” of this manual.

Please see the instructions below for details on this mode.

1. Plug the fixture into power.
2. Plug a DMX controller into the fixture in a daisy chain configuration.
3. Press **<MENU>** until **512** appears on the LED screen.
4. Press **<ENTER>**.
5. Using **<UP>** & **<DOWN>**, select the DMX starting address: d001~512.
6. Press **<ENTER>**.

## DMX Channel Values

CHANNEL	VALUE	FUNCTION
<b>1</b>	000 ⇔ 009	<b>Control/Operating Mode</b> RGB color mixing mode
	010 ⇔ 029	Automatic 1
	030 ⇔ 049	Automatic 2
	050 ⇔ 069	Automatic 3
	070 ⇔ 089	Automatic 4
	090 ⇔ 109	Automatic 5
	110 ⇔ 129	Automatic 6
	130 ⇔ 149	Automatic 7
	150 ⇔ 169	Automatic 8
	170 ⇔ 189	Automatic 9
	190 ⇔ 209	Automatic 10
	210 ⇔ 229	Automatic 11
	230 ⇔ 249	Automatic 12
	250 ⇔ 255	Sound-active
<b>2</b>	000 ⇔ 009	<b>Master Dimmer</b> No function
	010 ⇔ 255	Dimmer 1~100%
<b>3</b>	000 ⇔ 009	<b>Master Strobe</b> No function
	010 ⇔ 255	Strobe (slow-fast)
<b>4</b>	000 ⇔ 255	<b>Red 1 (0~100%)</b>
<b>5</b>	000 ⇔ 255	<b>Green 1 (0~100%)</b>
<b>6</b>	000 ⇔ 255	<b>Blue 1 (0~100%)</b>
<b>7</b>	000 ⇔ 255	<b>Red 2 (0~100%)</b>
<b>8</b>	000 ⇔ 255	<b>Green 2 (0~100%)</b>
<b>9</b>	000 ⇔ 255	<b>Blue 2 (0~100%)</b>
<b>10</b>	000 ⇔ 255	<b>Red 3 (0~100%)</b>
<b>11</b>	000 ⇔ 255	<b>Green 3 (0~100%)</b>
<b>12</b>	000 ⇔ 255	<b>Blue 3 (0~100%)</b>
<b>13</b>	000 ⇔ 255	<b>Red 4 (0~100%)</b>
<b>14</b>	000 ⇔ 255	<b>Green 4 (0~100%)</b>
<b>15</b>	000 ⇔ 255	<b>Blue 4 (0~100%)</b>

## Master/Slave Mode (Automatic, Sound-Active)

This mode allows for multiple 4BAR™ TRIs to be controlled with a single footswitch.

Please see the following instructions or this setup.

When additional (slave) fixtures are daisy chained to the master, they will all synchronize with the master and run the same light show.

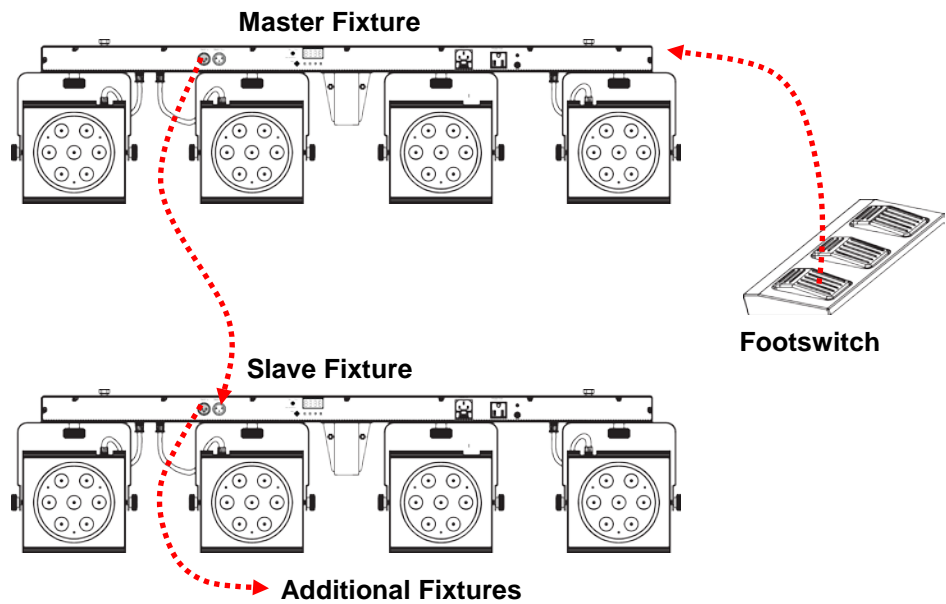
Please see the instructions below for details on this mode.

Master:

1. Place the master fixture **first** in the daisy chain.
2. Set the master fixture to operate in either automatic or sound-active mode; *please see the appropriate sections of this manual for details on this procedure.*

Slave:

1. Daisy chain from the output of the master fixture.
2. Press **<MENU>** until **512** appears on the LED screen.
3. Using **<UP>** & **<DOWN>**, set the DMX starting address to: d001.
4. Press **<ENTER>**.



**Plug the master fixture in LAST!**



**Only connect 31 slave fixtures when operating in this mode!**



**The 4BAR™ TRI is linkable with the 4BAR™.**

## Footswitch Operation

The included footswitch provides quick access to preset colors, color change programs, and triggering via the onboard microphone on the 4BAR™. Please see the chart, along with the set of instructions, below for further explanation.

1. Power on the fixture.
2. Connect the footswitch to the 4BAR™ TRI via the 4-pin connection cable with plug.
3. Press pedal # 1 (Preset) to activate control. When this is operating properly, the LEDs on the 4BAR™ TRI will light white (first function on pedal # 1)

PEDAL	SUB-OPTION	FUNCTION
1 (Preset)	1 x press	White
	2 x press	Red
	3 x press	Green
	4 x press	Blue
	5 x press	Cyan
	6 x press	Yellow
	7 x press	Magenta
	8 x press	Color change every second in a continuous loop
	9 x press	Color change every three seconds in a continuous loop
2 (Sound On)	-	Sound controlled
3 (Blackout)	-	Blackout



*There is no need to modify any settings for the 4BAR™ TRI before connecting the footswitch. It will operate properly in any mode.*



*Plug the master fixture in LAST!*

## Disconnecting the Footswitch

In order to properly disconnect the footswitch, please follow these steps:

1. Unplug the footswitch from the 4BAR™ TRI.
2. Turn the power to the fixture off (unplug the power cable).
3. Turn the power to the fixture on again (plug in the power cable), and the fixture will properly operate on any one of the 3 modes.

## Standalone

### Sound-Active

Please see the instructions below for details on this mode.

1. Plug the fixture into power.
2. Press **<MENU>** until **SNd** appears on the LED screen.
3. Press **<ENTER>**.
4. Use the microphone sensitivity adjustment knob to adjust the fixture to react to the beat of the music.
5. Press **<ENTER>**.



*The microphone will only respond to low frequencies (bass).*

### Automatic

Please see the instructions below for details on this mode.

1. Plug the fixture into power.
2. Press **<MENU>** until **AUTO** appears on the LED screen.
3. Press **<ENTER>**.
4. Using **<UP>** & **<DOWN>**, adjust the program speed (**S\_ \_1~S100**) (fast~slow).
5. Press **<ENTER>**.

# 5. APPENDIX

## General Troubleshooting

SYMPTOM	POSSIBLE CAUSE(S)	POSSIBLE ACTION(S)
Breaker/Fuse keeps blowing	<ul style="list-style-type: none"> <li>Excessive circuit load</li> <li>Short circuit along the power wires</li> </ul>	<ul style="list-style-type: none"> <li>Check total load placed on the electrical circuit</li> <li>Check for a short in the electrical wiring (internal and/or external)</li> </ul>
Device does not power up	<ul style="list-style-type: none"> <li>No power</li> <li>Loose power cord</li> </ul>	<ul style="list-style-type: none"> <li>Check for power on Mains</li> <li>Check power cord</li> </ul>
Fixture is not responding to DMX	<ul style="list-style-type: none"> <li>Wrong DMX addressing</li> <li>Damaged DMX cables</li> <li>Wrong polarity settings on the controller</li> <li>Loose DMX cables</li> <li>Faulty DMX interface</li> <li>Faulty Main PCB</li> </ul>	<ul style="list-style-type: none"> <li>Check Control Panel and unit addressing</li> <li>Check DMX cables</li> <li>Check polarity switch settings on the controller</li> <li>Check cable connections</li> <li>Replace DMXinput</li> <li>Replace Main PCB</li> </ul>
Loss of signal	<ul style="list-style-type: none"> <li>Non DMX cables</li> <li>Bouncing signals</li> <li>Long cable / low level signal</li> <li>Too many fixtures</li> <li>Interference from AC wires</li> </ul>	<ul style="list-style-type: none"> <li>Use only DMX compatible cables</li> <li>Install terminator as suggested</li> <li>Install amplifier right after fixture with strong signal.</li> <li>Install an optically coupled DMX splitter after unit #32</li> <li>Keep DMX cables separated from power cables or black lights</li> </ul>



*If you still have a problem after trying the above solutions, please contact CHAUVET® Technical Support.*

## DMX Primer

There are 512 channels in a DMX connection. A fixture capable of receiving DMX 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 all respond exactly the same.

DMX fixtures are designed to receive data through a 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 DMX data 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+).

## Fixture Linking (Daisy Chain)

You will need a daisy chain to run light shows of one or more fixtures using a DMX 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 daisy chain determines the number of fixtures the data link can support.



**To comply with the EIA-485 standard, do not connect more than 32 fixtures on one daisy chain. Connecting more than 32 fixtures on one daisy chain without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.**

*Maximum recommended cable distance: 500 m (1640 ft)*

*Maximum recommended number of fixtures on a daisy chain: 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.

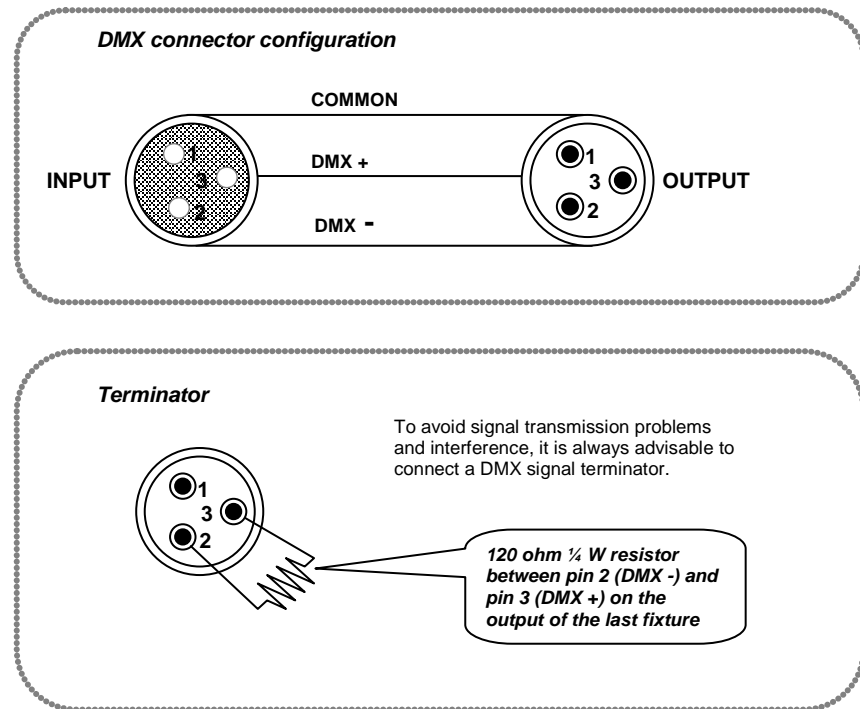
## DMX Data Cable

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:	<i>shielded, 2-conductor twisted pair</i>
Maximum capacitance between conductors:	<i>30 pF/ft</i>
Maximum capacitance between conductor and shield:	<i>55 pF/ft</i>
Maximum resistance:	<i>20 ohms/1000 ft</i>
Nominal impedance:	<i>100 ~ 140 ohms</i>

## Cable Connectors

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



**Do not allow contact between the common and the fixture's chassis ground. Grounding the common 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.**

## Setting the Starting Address

This DMX mode enables the use of a universal DMX controller device. Each fixture requires a start address from 1~512. 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 uses six DMX channels 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 note the start address selected for future reference.

If this is your first time addressing a fixture using the DMX control protocol, we suggest jumping to the "Appendix" section and reading the heading "DMX Primer". It contains very useful information that will help you understand its use.



## 3-Pin to 5-Pin Conversion Chart



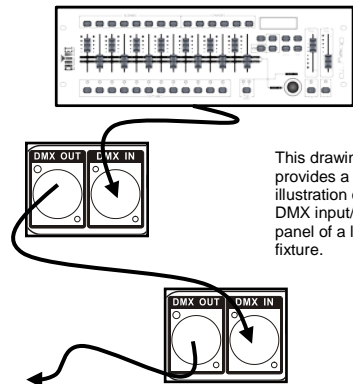
If you use a controller with a 5-pin DMX output connector, you will need to use a 5-pin to 3-pin adapter. The chart below details a proper cable conversion:

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 Daisy Chain

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



This drawing provides a general illustration of the DMX input/output panel of a lighting fixture.

Continue the link

## 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 reduction in the life of the light source and mechanical wear. Be sure to power off fixture before conducting maintenance.

- Unplug fixture from power.
- Use a vacuum or air compressor and a soft brush to remove dust collected on external vents.
- Clean all lenses when the fixture is cool 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.



*Always dry the parts carefully after cleaning them.*



*If the fixture has one or more fans, never spin them using compressed air.*

## 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 Merchandize Authorization Number (RMA #). Products returned without the RMA # will be refused. Call CHAUVET® and request an RMA # 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 pack fixture properly; 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).



*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 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.

# TECHNICAL SPECIFICATIONS

## WEIGHT & DIMENSIONS

Length .....48 in (1,219 mm)  
Width .....2.2 in (55 mm)  
Height .....11.2 in (285 mm)  
Weight .....31 lbs (14.1 kg)  
Maximum stand height..... 51~91 in (129.54~231.14 cm)

## POWER

Input voltage ..... 100~240 VAC, 50/60 Hz (auto-ranging)  
Power and current ..... 116 W; 0.99 A max (120 V, 60 Hz)  
Power consumption ..... 118 W; 0.50 A max (230 V, 50 Hz)  
Power linking .....max 8 units @ 120 V; 16 units @ 230 V  
Fuse .....F 2 A, 250 V

## LIGHT SOURCE

Type ..... high-power, tri-color LED  
Quantity .....28 (7 per light)  
Rating ..... (3 W) 375 mA x 3; 50,000 hrs

## PHOTO OPTIC

Lux (per light) ..... 3,250 @ 1 m  
Beam angle (per light) .....22°  
Field angle (per light) .....42°

## INDOOR/OUTDOOR

Rating..... For indoor use only

## 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  
DMX Channels ..... 15

## ORDERING INFORMATION

4BAR™ TRI..... 4BARTRI

## WARRANTY INFORMATION

Warranty.....2-year limited warranty

# CONTACT Us

## WORLD HEADQUARTERS

General Information..... CHAUVET®  
Address ..... 5200 NW108<sup>th</sup> Ave  
Sunrise, FL 33351  
Voice ..... 954-929-1115  
Voice (toll free) ..... 800-762-1084  
Fax ..... 954-929-5560  
Technical Support ..... CHAUVET®  
Voice ..... 954-929-1115 (Press 4)  
Fax ..... 954-929-5560 (Attention: Service)  
Email ..... [tech@chauvetlighting.com](mailto:tech@chauvetlighting.com)  
World Wide Web ..... <http://www.chauvetlighting.com>

## UNITED KINGDOM & IRELAND

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