# Legend™ 550 SPOT

## User Manual

# TABLE OF CONTENTS

# 1. BEFORE YOU BEGIN

## What is included

- Ø    1 x Legend™ 550 Spot
- Ø    2 x Omega brackets
- Ø    1 x Warranty Card
- Ø    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!*    ***Verify that the voltage taps on the transformer in the unit match the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch.***

***All fixtures must be connected to circuits with a suitable earth ground.***

# Safety Instructions

> ⚠️ Please read these instructions carefully, which includes 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.

·   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 20 in (50 cm) 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 (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. Always use the same type spare parts.

·   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.

·   Avoid direct eye exposure to the light source 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 at: 954-929-1115.***

# 2. INTRODUCTION

## Features

12 or 18-channel DMX moving yoke
Pan: 540° / tilt: 270°
Color wheel
Two independent color wheels with 9 trapezoid dichroic colors plus white
    Step/split colors
    Rainbow color spin at variable speeds
Fixed gobo wheel with gobo shake
    9 steel replaceable gobos plus open
Indexed, rotating gobo wheel with gobo shake
    7 glass, interchangeable, slot-n-lock gobos + open
    Gobo wheel spin at variable speeds
Frost on color wheel
3-facet rotating prism
Variable double bladed shutter
Variable iris
Variable focus
Variable dimmer (0 – 100%)
Move-in-black for pan/tilt, color, gobo
Remote fixture reset, lamp on/off and vector speed adjustments
Built-in movement macros with range adjustments

## Additional Features

Automatic pan & tilt correction
FasTap™ for easy access to voltage re-tap

# DMX Channel Summary

| CHANNEL | 18-CHANNEL OPERATION (ADVANCED MODE) |
|---|---|
| **1** | Pan |
| **2** | Pan fine |
| **3** | Tilt |
| **4** | Tilt fine |
| **5** | Pan/tilt speed |
| **6** | Dimmer |
| **7** | Shutter |
| **8** | Color 1 |
| **9** | Color 2 |
| **10** | Gobo 1 |
| **11** | Gobo 2 |
| **12** | Gobo 2 rotation |
| **13** | Focus |
| **14** | Iris |
| **15** | Prism |
| **16** | Preset Color |
| **17** | Movement Macro |
| **18** | Function |

| CHANNEL | 12-CHANNEL OPERATION (BASIC MODE) |
|---|---|
| **1** | Pan |
| **2** | Tilt |
| **3** | Dimmer |
| **4** | Shutter |
| **5** | Color 1 |
| **6** | Color 2 |
| **7** | Iris |
| **8** | Gobo 1 |
| **9** | Gobo 2 |
| **10** | Gobo 2 rotation |
| **11** | Focus |
| **12** | Prism |

# Product Overview

Power on/off button

Fuse

Power input (hardwired)

DMX In 3-pin

DMX Out 3-pin

DMX Out 5-pin

DMX In 5-pin

ON

OFF

FUSE POWER

DMX INPUT DMX OUTPUT

DMX INPUT DMX OUTPUT

DMX LED Indicator

Master Standalone LED Indicator

MENU

DOWN

Sound LED Indicator

Slave Standalone LED Indicator

UP

ENTER

DMX MASTER SLAVE SOUND

MENU

ENTER
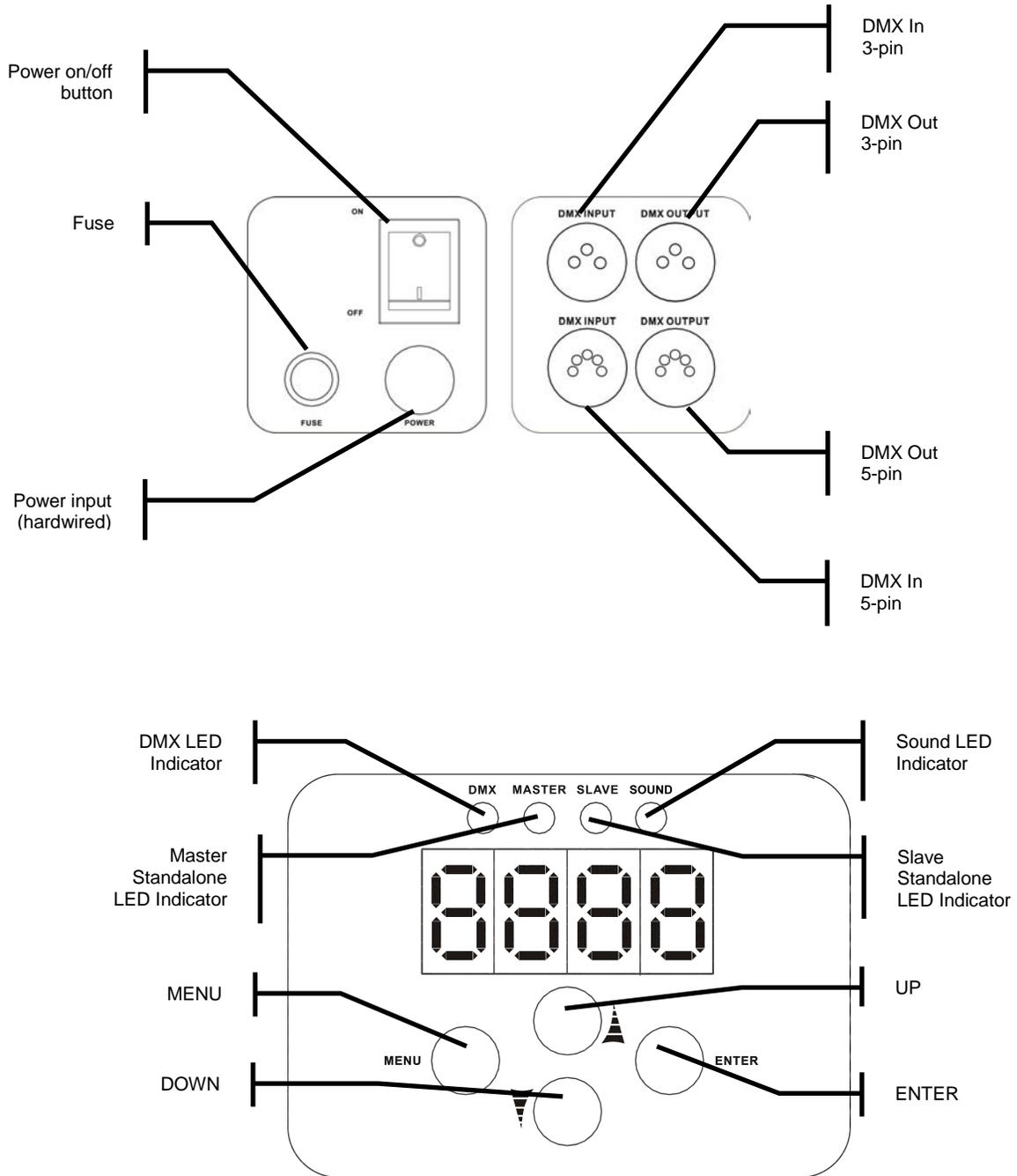
# 3. SETUP

ROTATING GOBO WHEEL
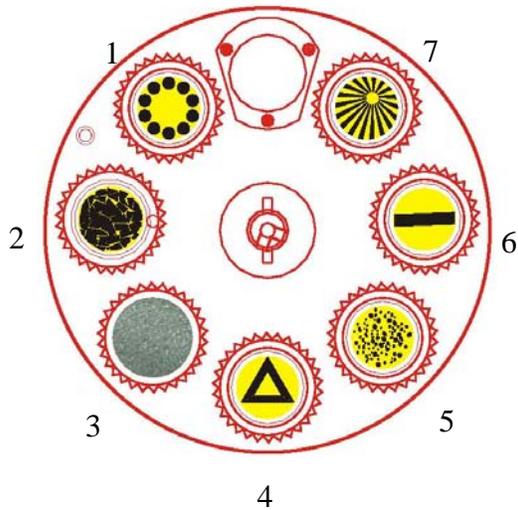
FIXED GOBO WHEEL
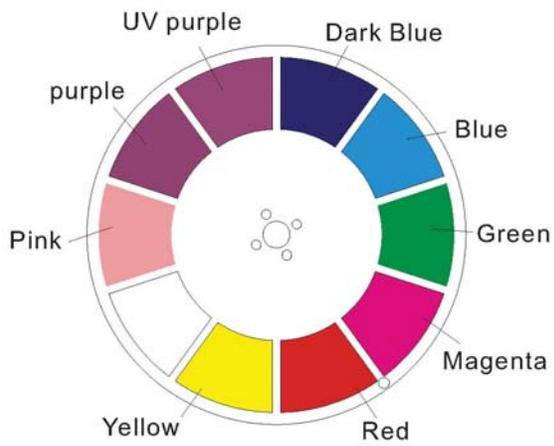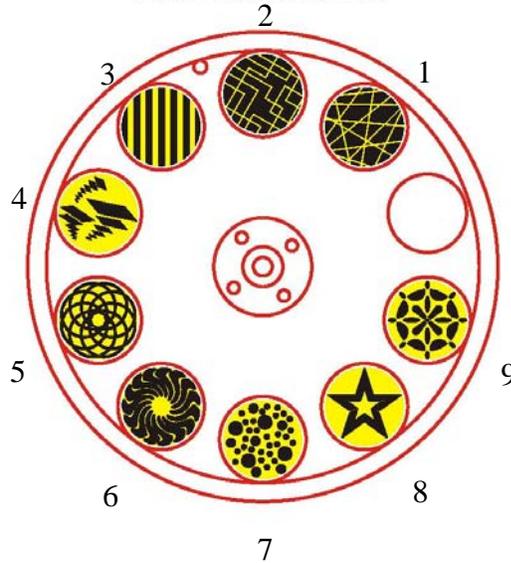
LEGEND 550 SPOT COLOR WHEEL 1
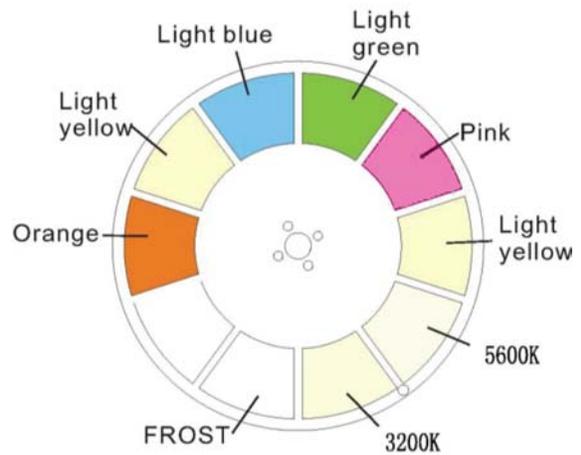
LEGEND 550 SPOT COLOR WHEEL 2

# Maximizing the life of your lamp

*To ensure the longest and most efficient use of the lamp always wait between 10 to 15 minutes before re-applying power after a shutdown.*

Failure to do so could result in premature aging of the lamp and failure to the electronics that drive it.

Never turn off the power to the unit while the lamp is striking. Always wait 15 minutes after powering on the fixture before powering down. Turning off the lamp during striking may permanently damage the lamp.

# Fuse Replacement

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

With a Phillips #2 screwdriver, unscrew the fuse holder from its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Screw the fuse holder back in its place and reconnect power.

The fuse is located inside this compartment. Remove using a Phillips #2 screwdriver.

FUSE

# FasTap™ Voltage and Frequency adjustment

! *Warning!  Remove power from mains prior to this operation* !

This fixture will operate with multiple voltage and frequency options. Depending on the power being supplied to the fixture, you may modify the connections on the terminal block. Please see the below instructions for modifying the settings.

1. Disconnect the fixture from the mains power.

2. Unscrew the 2 screws that hold the FasTap™ cover in place.

3. Unscrew the screw on the terminal block according to the desired voltage and frequency and retighten snugly as needed.

4. Re-install the FasTap™ cover back into place.
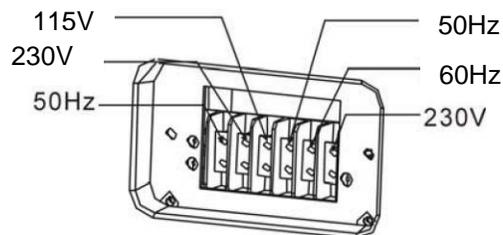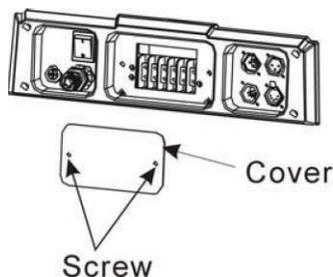
# Lamp

**You may have to install a lamp prior to the initial operation of the fixture. An MSI575 high intensity discharge lamp is included.**

*Warning!*    *When replacing the lamp, please wait 15 minutes after powering down to allow the unit to cool down! Always disconnect from main power prior to lamp replacement.*

Do not touch the envelope (glass area) of the bulb with bare hands. If this happens, clean the lamp with alcohol and wipe it with a lint free cloth before installation.

## Lamp Installation

1. Unscrew the 4 screws (S1) to detach the top cover.

2. Unscrew screws (S2) to remove lamp cover and expose lamp compartment.
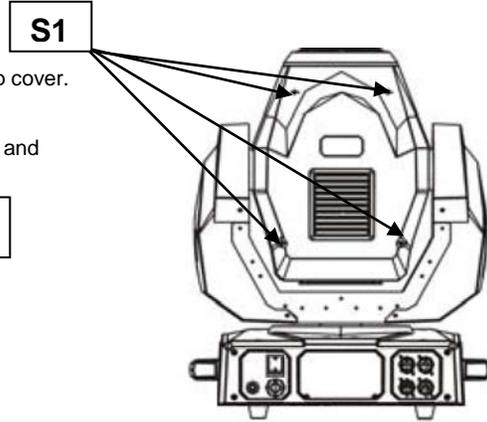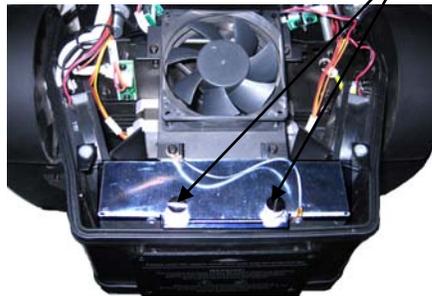
3. To remove the lamp, loosen both lamp end screws (S3) to relieve the pressure from the lamp socket slots. This way, you will be able to slide the lamp freely upwards and out of the lamp socket. Raise the lamp evenly to remove it.

4. To install a new lamp, loosen both screws on the double- ended lamp to allow the lamp to slide into the lamp socket slots. Lower the lamp evenly.
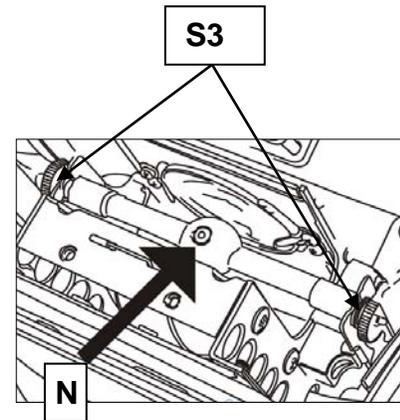
*Warning!*    *Make sure that the clips on the lamp socket are toward the front of the fixture.*

5. Before tightening the lamp end screws, rotate the bulb until the nipple on the envelope (N) of the bulb is facing upwards as illustrated.
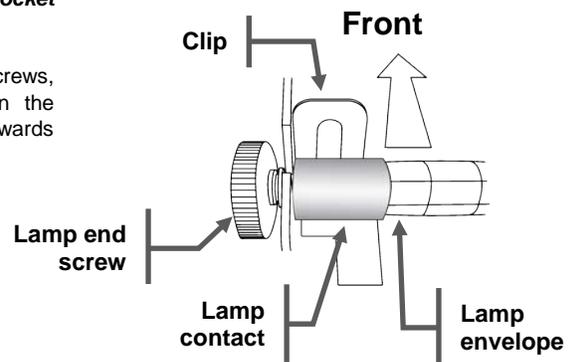
# Replacing Gobos

1. Unscrew the 4 screws (S1) to detach the top cover.

**S1**
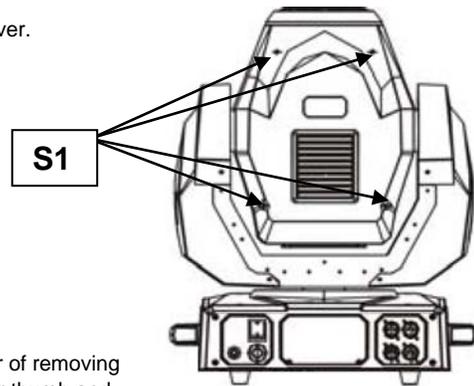
2. For the rotating gobo wheel, it is a simple matter of removing the slot-n-lock gobo single assembly. Using your thumb and forefinger, grasp the gobo and remove it fro the gobo wheel.
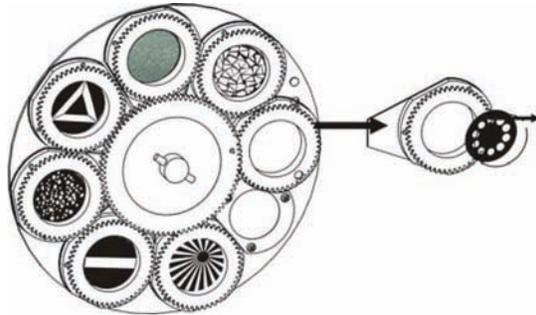
3. Then, using a small prying tool, remove the gobo tension ring and remove from the gobo aperture.

4. Push the gobo with your finger from the back side following the same direction that the tension ring was removed.

*Caution!*      *Tension ring could pop out abruptly and fall inside the fixture. Please use caution when removing and if necessary use both hands.*

*Note!*      *Replacing the gobos on the static gobo wheel is achieved using the same method as the rotating gobo wheel. However, the gobo wheel is not slot-n-lock.*

# Fixture Linking

You will need a serial data link 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 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 fixtures 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 m (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* |

# 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 and the fixture's chassis ground. Grounding the common can cause a ground loop, and your fixture may perform erratically. Test cables with an ohmmeter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.*

**3-pin DMX connector configuration**

*Resistance 120 ohm ¼ W between pin 2 (DMX -) and pin 3 (DMX +) on the output of the last fixture.*

INPUT    COMMON    DMX +    DMX -    OUTPUT

**5-pin DMX connector configuration**

*Resistance 120 ohm ¼ W between pin 2 (DMX -) and pin 3 (DMX +) on the output of the last fixture.*
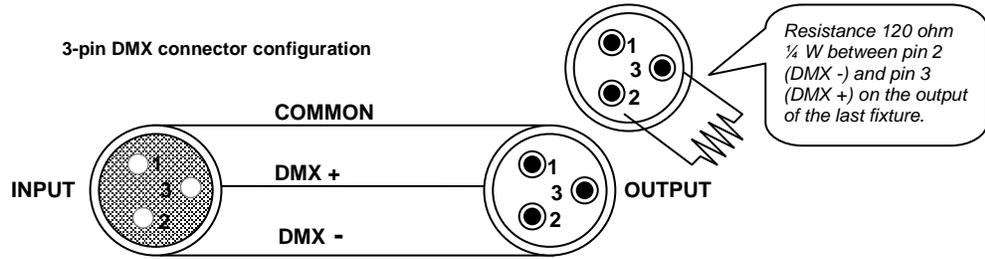
**To avoid signal transmission problems and interference, it is always advisable to connect a DMX signal terminator.**

INPUT    1 COMMON    2 DMX +    3 DMX -    4 NOT USED    5 NOT USED    OUTPUT
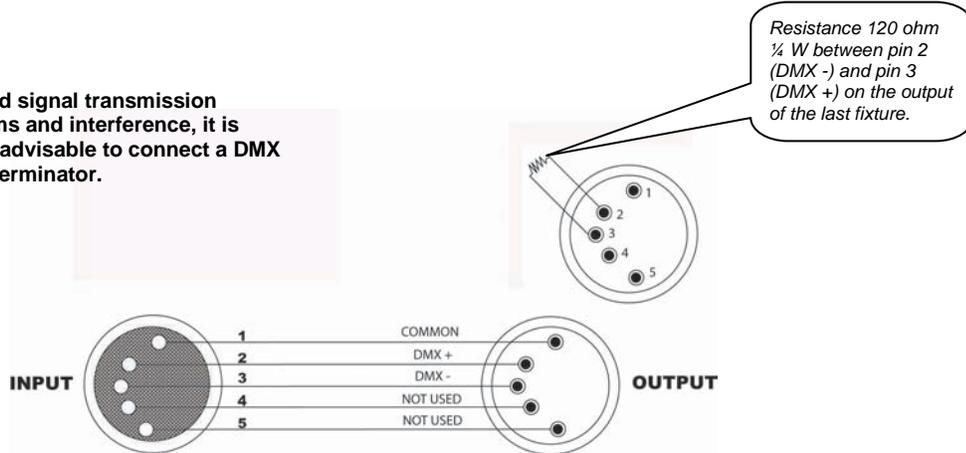
# 3-Pin to 5-Pin Conversion Chart

**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. CHAUVET Model No: DMX5M, or DMX5F.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

Universal DMX Controller

1. Connect the (male) 3 or 5-pin connector side of the DMX cable to the output (female) 3 or 5-pin connector of the controller.

2. Connect the end of the cable coming from the controller which will have a (female) 3- or 5-pin connector to the input connector of the next fixture consisting of a (male) 3 or 5-pin connector.

3. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

This drawing provides a general illustration of the DMX Input/Output panel of a lighting fixture.

**CHAUVET Certified DMX Data Cables**

| Order Code | Description |
|---|---|
| DMX1.5 | DMX Cable 1.5 m/4.9 ft |
| DMX4.5 | DMX Cable 4.5 m/14.8 ft |
| DMX10 | DMX Cable 10 m/32.8 ft |

Continue the link
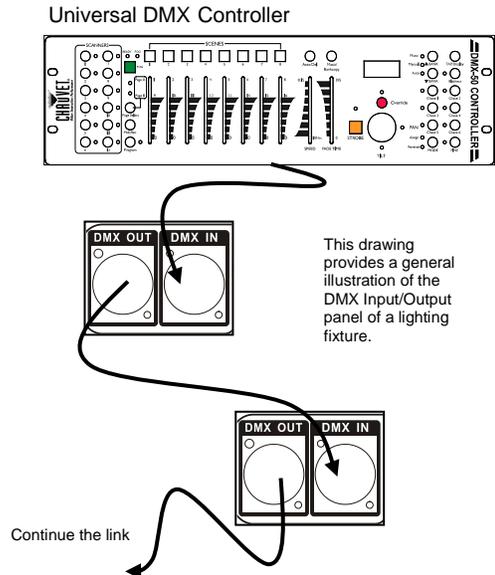
# Master/Slave Fixture Linking

1. Connect the (male) 3 or 5-pin connector side of the DMX cable to the output (female) 3 or 5-pin connector of the first fixture.

2. Connect the end of the cable coming from the first fixture which will have a (female) 3 or 5-pin connector to the input connector of the next fixture consisting of a (male) 3 or 5-pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.

Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via settings in the control panel. Secondarily, the fixtures that follow may also require a slave setting. Please consult the "Operating Instructions" section in this manual for complete instructions for this type of setup and configuration.

Slave          Slave          Master
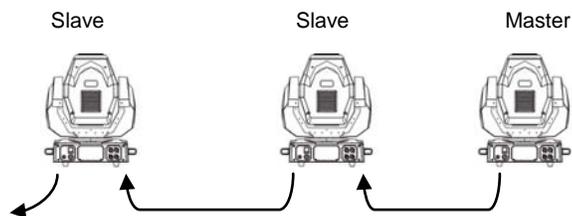
# Mounting

## Orientation

This fixture may be mounted in a vertical position. This can be a hanging or a sitting position, provided there is adequate room for ventilation.

*Note!*　　**It is _not_ recommended to mount this fixture at any other odd angle, other than standard hanging or sitting position. Failure to comply with this may cause damage _not_ covered under the warranty.**

## Rigging

**Hanging Clamp**

It is important never to obstruct the fan or vents pathway. Mount the fixture using, a suitable "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.
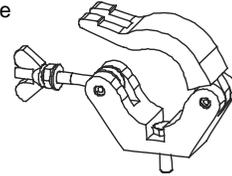
*Note!*
*Clamp is sold separately.*

# 4. OPERATING INSTRUCTIONS

## Navigating the Control Panel

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

| Button | Function |
|--------|----------|
| **<MENU>** | Used to access the menu or to return to a previous menu option |
| **<UP>** | Scrolls through menu options in ascending order |
| **<DOWN>** | Scrolls through menu options in descending order |
| **<ENTER>** | Used to select and store the current menu or option within a menu |
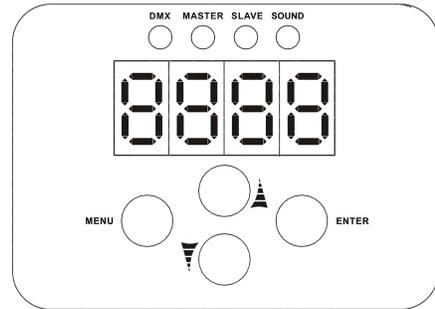
The control panel LED display shows the menu items you select from the menu map. When a menu function is selected, the display will show immediately the first available option for the selected menu function. To select a menu item, press **<ENTER>**.

Use the **<UP>** and **<DOWN>** buttons to navigate the menu map and menu options. Press the **<ENTER>** 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 **<MENU>** button.

*Note!*          *After each setting change in the control panel, you must perform a system reset, in order for the changes to take effect.*

## Menu Map

| MAIN FUNCTION | SELECTION | INSTRUCTION |
|---|---|---|
| **Addr** | 001 – 512 | DMX starting address assignment |
| **ChNd** | 12Ch | 8-bit operating mode |
| | 18Ch | 16-bit operating mode |
| **ShNd** | Sh 1 | Tilt movement @ 210° |
| | Sh 2 | Tilt movement @ 90° |
| | Sh 3 | Speaker standing mode-pan movement @ 160° (left-to-right), tilt movement @ 90° (60° above horizon, 30° below horizon |
| | Sh 4 | Hanging mode- pan movement @ 160°, tilt movement @ 90° (vertically, front 75°, back 15°) |
| **SLNd** | SL 1 | Slave mode "Normal" |
| | SL 2 | Slave mode 2. Used to create contrast between other fixtures. |
| **SOUn** | on | Sound mode on |
| | oFF | Sound mode off |
| **bLNd** | no | Blackout mode "Yes" |
| | YES | Blackout mode "No" |
| **1Pan** | no | Pan normal |
| | 1 | Pan inversion |
| **1tLt** | no | Tilt normal |
| | 1 | Tilt inversion |
| **LEd** | on | Display on (always on) |
| | oFF | Display off (turns off when no activity) |
| **1dSP** | 1dSP | Display normal |
| | dSP1 | Display inversion |
| **FAd1** | | Gobo1 focus adjust 1-tilt(135°/45°), pan(90°/180°/270°) |
| **FAd2** | | Gobo2 focus adjust 2-tilt(135°/45°), pan(90°/180°/270°) |
| **tESt** | | Self test |
| **tENp** | | Ambient temperature of the lamp |
| **FhrS** | | Fixture operation hours |
| **LANP** | on | Lamp on |
| | oFF | Lamp off |
| **LPNd** | Poon | Lamp Mode on (on when powering fixture) |
| | PooF | Lamp Mode off (off when powering the fixture) |
| **uEr** | | Software version |
| **rSEt** | | Fixture reset |

*Note!*   ***After each setting change in the control panel, you must perform a system reset, in order for the changes to take effect.***

# Menu Map (Home position adjustments)

This is a hidden menu in the fixture. If the home position of one of the motors becomes misaligned, you can use this menu to realign/offset the function. See the below steps for accessing this function.

1. Scroll through the menu, until you reach the FAdJ mode.
2. Press and hold the <**ENTER**> button for 5 seconds.
3. Scroll to the desired attribute.
4. Press <**ENTER**>.
5. Use <**UP**> and <**DOWN**> to adjust the home position.
6. Once the position has been selected, press <**ENTER**>.

*Note!*     ***The "home position" is the location that the fixture finds during the reset(home) process.***

| MAIN FUNCTION | INSTRUCTION |
|---|---|
| **oPan** | Pan offset |
| **otIL** | Tilt offset |
| **odIN** | Dimmer offset |
| **oCo1** | Color 1 offset |
| **oCo2** | Color 2 offset |
| **oGo1** | Gobo 1 offset |
| **oGo2** | Gobo 2 offset |
| **orGo** | R-Gobo offset |
| **oPr1** | Prism offset |
| **oIrI** | Iris offset |
| **oFoc** | Focus offset |

## DMX Channel Values

## 12 channel mode (8-bit Pan/Tilt)

| CHANNEL | VALUE | FUNCTION |
|---|---|---|
| 1 | 000 ↔ 255 | **Pan**<br>0 ↔ 540 |
| 2 | 000 ↔ 255 | **Tilt**<br>0 ↔ 270 |
| 3 | 000 ↔ 255 | **Dimmer**<br>0% ↔ 100% |
| 4 | 000 ↔ 007<br>008 ↔ 015<br>016 ↔ 131<br>132 ↔ 185<br>186 ↔ 239<br>240 ↔ 247<br>248 ↔ 255 | **Shutter**<br>Closed<br>Open<br>Strobe (slow ↔ fast)<br>Gobo shake 1 (slow ↔ fast)<br>Gobo shake 2 (slow ↔ fast)<br>Random Strobe<br>Open |
| 5 | 000 ↔ 006<br>007 ↔ 012<br>013 ↔ 018<br>019 ↔ 025<br>026 ↔ 031<br>032 ↔ 037<br>038 ↔ 044<br>045 ↔ 050<br>051 ↔ 056<br>057 ↔ 063<br>064 ↔ 127<br>128 ↔ 191<br>192 ↔ 255 | **Color 1**<br>Open (white)<br>Pink<br>Purple<br>UV<br>Dark Blue<br>Blue<br>Green<br>Magenta<br>Red<br>Yellow<br>Split Colors<br>Rotate clockwise (fast ↔ slow)<br>Rotate counterclockwise (slow ↔ fast) |
| 6 | 000 ↔ 006<br>007 ↔ 012<br>013 ↔ 018<br>019 ↔ 025<br>026 ↔ 031<br>032 ↔ 037<br>038 ↔ 044<br>045 ↔ 050<br>051 ↔ 056<br>057 ↔ 063<br>064 ↔ 127<br>128 ↔ 191<br>192 ↔ 255 | **Color 2**<br>Open (white)<br>Orange<br>Light Yellow<br>Light Blue<br>Light Green<br>Pink<br>Light Yellow<br>5600 K<br>3200 K<br>Frost<br>Split Colors<br>Rotate clockwise (fast ↔ slow)<br>Rotate counterclockwise (slow ↔ fast) |
| 7 | 000 ↔ 127<br>128 ↔ 170<br>171 ↔ 212<br>213 ↔ 255 | **Iris**<br>100% ↔ 0%<br>Iris Macro (slow closed ↔ fast open) (slow ↔ fast)<br>Iris Macro (fast closed ↔ slow open) (slow ↔ fast)<br>Iris Macro (slow open ↔ slow closed) (slow ↔ fast) |
| 8 | 000 ↔ 012<br>013 ↔ 025<br>026 ↔ 038<br>039 ↔ 050<br>051 ↔ 063<br>064 ↔ 076<br>077 ↔ 088<br>089 ↔ 101<br>102 ↔ 114<br>115 ↔ 127<br>128 ↔ 191<br>192 ↔ 255 | **Gobo 1**<br>Open (white)<br>Gobo 1<br>Gobo 2<br>Gobo 3<br>Gobo 4<br>Gobo 5<br>Gobo 6<br>Gobo 7<br>Gobo 8<br>Gobo 9<br>Rotate clockwise (fast ↔ slow)<br>Rotate counterclockwise (slow ↔ fast) |
| 9 | 000 ↔ 015<br>016 ↔ 031<br>032 ↔ 047<br>048 ↔ 063<br>064 ↔ 079<br>080 ↔ 095<br>096 ↔ 111 | **Gobo 2**<br>Open (white)<br>Gobo 1<br>Gobo 2<br>Gobo 3<br>Gobo 4<br>Gobo 5<br>Gobo 6 |

*…continued*

| | | |
|---|---|---|
| | 112 ↔ 127 | Gobo 7 |
| | 128 ↔ 191 | Rotate counterclockwise (fast ↔slow) |
| | 192 ↔ 255 | Rotate clockwise (slow ↔ fast) |
| **10** | | **Gobo 2 Rotation** |
| | 000 ↔ 127 | Gobo indexing |
| | 128 ↔ 191 | Rotate clockwise (fast ↔slow) |
| | 192 ↔ 255 | Rotate counterclockwise (slow ↔ fast) |
| **11** | | **Focus** |
| | 000 ↔ 255 | Near ↔ far |
| **12** | | **Prism** |
| | 000 ↔ 007 | No prism |
| | 008 ↔ 015 | Prism-static |
| | 016 ↔ 135 | Prism-rotate counterclockwise (fast ↔ slow) |
| | 136 ↔ 255 | Prism-rotate clockwise  (slow ↔ fast) |

# 18 channel mode (16-bit Pan/Tilt)

| CHANNEL | VALUE | FUNCTION |
|---|---|---|
| 1 | 000 → 255 | **Pan**<br>0 → 540 |
| 2 | 000 → 255 | **Pan fine** |
| 3 | 000 → 255 | **Tilt**<br>0 → 270 |
| 4 | 000 → 255 | **Tilt fine** |
| 5 | 000 → 255 | **Pan/Tilt speed**<br>(Normal > Slow) |
| 6 | 000 → 255 | **Dimmer**<br>0% → 100% |
| 7 | 000 → 007<br>008 → 015<br>016 → 131<br>132 → 185<br>186 → 239<br>240 → 247<br>248 → 255 | **Shutter**<br>Closed<br>Open<br>Strobe (slow → fast)<br>Gobo shake 1 (slow → fast)<br>Gobo shake 2 (slow → fast)<br>Random Strobe<br>Open |
| 8 | 000 → 006<br>007 → 012<br>013 → 018<br>019 → 025<br>026 → 031<br>032 → 037<br>038 → 044<br>045 → 050<br>051 → 056<br>057 → 063<br>064 → 127<br>128 → 191<br>192 → 255 | **Color 1**<br>Open (white)<br>Pink<br>Purple<br>UV<br>Dark Blue<br>Blue<br>Green<br>Magenta<br>Red<br>Yellow<br>Split Colors<br>Rotate clockwise (fast → slow)<br>Rotate counterclockwise (slow → fast) |
| 9 | 000 → 006<br>007 → 012<br>013 → 018<br>019 → 025<br>026 → 031<br>032 → 037<br>038 → 044<br>045 → 050<br>051 → 056<br>057 → 063<br>064 → 127<br>128 → 191<br>192 → 255 | **Color 2**<br>Open (white)<br>Orange<br>Light Yellow<br>Light Blue<br>Light Green<br>Pink<br>Light Yellow<br>5600 K<br>3200 K<br>Frost<br>Split Colors<br>Rotate clockwise (fast → slow)<br>Rotate counterclockwise (slow → fast) |
| 10 | 000 → 012<br>013 → 025<br>026 → 038<br>039 → 050<br>051 → 063<br>064 → 076<br>077 → 088<br>089 → 101<br>102 → 114<br>115 → 127<br>128 → 191<br>192 → 255 | **Gobo 1**<br>Open (white)<br>Gobo 1<br>Gobo 2<br>Gobo 3<br>Gobo 4<br>Gobo 5<br>Gobo 6<br>Gobo 7<br>Gobo 8<br>Gobo 9<br>Rotate clockwise (fast → slow)<br>Rotate counterclockwise (slow → fast) |
| 11 | 000 → 015<br>016 → 031<br>032 → 047<br>048 → 063<br>064 → 079<br>080 → 095<br>096 → 111<br>112 → 127<br>128 → 191<br>192 → 255 | **Gobo 2**<br>Open (white)<br>Gobo 1<br>Gobo 2<br>Gobo 3<br>Gobo 4<br>Gobo 5<br>Gobo 6<br>Gobo 7<br>Rotate clockwise (fast → slow)<br>Rotate counterclockwise (slow → fast) |

*…continued*

| | | |
|---|---|---|
| **12** | | **Gobo 2 Rotation** |
| | 000 → 127 | Gobo indexing |
| | 128 → 191 | Rotate clockwise (fast →slow) |
| | 192 → 255 | Rotate counterclockwise (slow → fast) |
| **13** | | **Focus** |
| | 000 → 255 | Near → far |
| **14** | | **Iris** |
| | 000 → 127 | 100% → 0% |
| | 128 → 170 | Iris Macro (slow closed → fast open) (slow → fast) |
| | 171 → 212 | Iris Macro (fast closed → slow open) (slow → fast) |
| | 213 → 255 | Iris Macro (slow open → slow closed) (slow → fast) |
| **15** | | **Prism** |
| | 000 → 007 | No prism |
| | 008 → 015 | Prism-static |
| | 016 → 135 | Prism-rotate counterclockwise (fast → slow) |
| | 136 → 255 | Prism-rotate clockwise  (slow → fast) |
| **16** | | **Preset Color** |
| | 000 → 007 | Open (white) |
| | 008 → 049 | Color 1 |
| | 050 → 091 | Color 2 |
| | 092 → 133 | Color 3 |
| | 134 → 175 | Color 4 |
| | 176 → 217 | Color 5 |
| | 218 → 255 | Color 6 |
| **17** | | **Movement Macro** |
| | 000 → 063 | No Macro |
| | 064 → 071 | Macro 1 |
| | 072 → 079 | Macro 2 |
| | 080 → 087 | Macro 3 |
| | 088 → 095 | Macro 4 |
| | 096 → 103 | Macro 5 |
| | 104 → 111 | Macro 6 |
| | 112 → 119 | Macro 7 |
| | 120 → 127 | Macro 8 |
| | 128 → 135 | Macro 9 |
| | 136 → 143 | Macro 10 |
| | 144 → 151 | Macro 11 |
| | 152 → 159 | Macro 12 |
| | 160 → 167 | Macro 13 |
| | 168 → 175 | Macro 14 |
| | 176 → 183 | Macro 15 |
| | 184 → 191 | Macro 16 |
| | 192 → 199 | Macro 17 |
| | 200 → 207 | Macro 18 |
| | 208 → 215 | Macro 19 |
| | 216 → 223 | Macro 20 |
| | 224 → 231 | Macro 21 |
| | 232 → 239 | Macro 22 |
| | 240 → 247 | Macro 23 |
| | 248 → 255 | Macro 24 |
| **18** | | **Control** |
| | 000 → 069 | No function |
| | 070 → 079 | Pan/tilt move-in-black enable |
| | 080 → 089 | Pan/tilt move-in-black disable |
| | 090 → 099 | Color move-in-black enable |
| | 100 → 109 | Color move-in-black disable |
| | 110 → 119 | Gobo move-in-black enable |
| | 120 → 129 | Gobo move-in-black disable |
| | 130 → 139 | Lamp On |
| | 140 → 199 | No function |
| | 200 → 209 | Reset |
| | 210 → 229 | No function |
| | 230 → 239 | Lamp Off |
| | 240 → 255 | No function |

# Setting the DMX 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 6 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.

# Legend™ 550 Troubleshooting

| Symptom | Solution(s) |
|---|---|
| Auto shut off | Check fan thermal switch reset |
| Beam is very dim or not bright | Clean optical system or replace lamp<br>Check voltage switch for proper setting |
| Breaker/Fuse keeps blowing | Check total load placed on device |
| Device has no power | Check for power on Mains.<br>Check device's fuse. (internal and/or external) |
| Fixture is not responding | Check Display settings for correct addressing<br>Check DMX cables |
| Lamps cuts off sporadically | Possible bad lamp or fixture is overheating.<br>Lamp may be at end of its life. |
| Light will not come on after power failure | Discharge lamps require a cooling off period before the electronics in the fixture can kick start it again, wait 5 ~ 10 minutes before powering up. |
| Loss of signal | Use only DMX cables<br>Install terminator<br>Note: Keep DMX cables separated from power cables or black lights. |
| Moves slowly | Check FasTap™ |
| No light output | Check lamp |
| Stand alone mode | This fixture features stand-alone functions. See "Menu Map" for details. |

**If you still have a problem after trying the above solutions, please contact CHAUVET Technical Support at the location listed below.**

# Technical Support

Address: Service Dept.
3000 N 29th Ct, Hollywood, FL 33020 (U.S.A.)
Support (Email): tech@chauvetlighting.com
Telephone: (954) 929-1115 - (Press 4)
Fax: (954) 929-5560 - (Attention: Service)
Website: http://www.chauvetlighting.com

## Contact Us

**World Wide**

**General Information**  CHAUVET
3000 North 29<sup>th</sup> Court
Hollywood, FL 33020
voice: 954.929.1115
fax:  954.929.5560
toll free: 800.762.1084

**Technical Support**  CHAUVET
3000 North 29<sup>th</sup> Court
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 connection. Channels may be assigned in any manner. 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 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 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 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 and internal components. Do not let the fans free spool with an air compressor.  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 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 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.

**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 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................................................................................................17 in (439 mm)
Width.................................................................................................17 in (431 mm)
Height ...............................................................................................21 in (539 mm)
Weight....................................................................................... 72.15 lbs (32.8 kg)

**POWER**

FasTap™ user-selectable ................................................. 100/115/208/230 VAC, 50/60 Hz
Fuse........................................................................................F 15 A, 250 V 6 x 30 mm
Power Consumption max @ 120 V, 60 Hz ...................................................... 960 W, 8 A
Inrush Current @ 120 V, 60 Hz ...................................................................... 8.9 A
Power Factor @ 120 V, 60 Hz........................................................................0.71
Power Consumption max @ 230 V, 50 Hz .................................................. 943 W, 4.1 A
Inrush Current @ 230 V, 50 Hz ...................................................................... 4.5 A
Power Factor @ 230 V, 50 Hz........................................................................0.75

**LIGHT SOURCE**

Lamp................................................................. Philips® MSI 575W or GE CSR 575 DE, 1,000 hrs

**PHOTO OPTIC**

Luminance @ 2 m......................................................................... 17,527 lux
Beam Angle .................................................................................. 17°

**RANGE**

Pan .............................................................................................. 540°
Tilt................................................................................................ 270°

**GOBOS**

Outside diameter...............................................................................37.3 mm
Image diameter (maximum)...................................................................30 mm
Max thickness (Static gobo wheel) ..........................................................1 mm
Max thickness (Rotating gobo wheel)........................................................2.57 mm

**THERMAL**

Maximum ambient temperature.................................................... 104° F (40° C)
Cooling............................................................................................ Fan cooled

**CONTROL & PROGRAMMING**

Data input (3-pin) ............................................................. locking 3-pin XLR male socket
Data output (3-pin) .......................................................... locking 3-pin XLR female socket
Data pin configuration (3-pin) ...............................................pin 1 shield, pin 2 (-), pin 3 (+)
Data input (5-pin) ............................................................. locking 5-pin XLR male socket
Data output (5-pin) .......................................................... locking 5-pin XLR female socket
Data pin configuration (5-pin) ................................. pin 1 shield, pin 2 (-), pin 3 (+), pin 4+5 (not used)
Protocols.............................................................................. USITT DMX512-A
DMX Channels ........................................................... User configurable: 12, 18

**ORDERING INFORMATION**

Legend™ 550 Spot ...............................................................................LEGEND550SPOT

**WARRANTY INFORMATION**

Warranty ...........................................................................2-year limited warranty