# ST-200X
## Techno Strobe™ 200X

*USER MANUAL*

# TABLE OF CONTENT

# BEFORE YOU BEGIN

## What is included

➢ ST-200X
➢ Power cord with plug
➢ 200w Xenon lamp (Installed)
➢ 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.

## 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 Ta: 40°. 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.

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

# INTRODUCTION

## Features

- DMX control
- strobe speed control
- intensity control

- wall-mountable fixture
- LED control panel display
- Master/Slave mode

## DMX Channel Summary

| Channel | Function |
| --- | --- |
| 1 | Strobe speed |
| 2 | Intensity |

## Product Overview

**Product Overview**

**LED SEGMENT DISPLAY OVERVIEW**

| LED Indicators | Status | Function |
| --- | --- | --- |
| DMX | On | DMX input is present |
| MASTER | On | Unit is in the Master operating ode |
| Slave | On | Unit is in the Slave operating mode |
| Sound | Flashing | Sound Active mode is on |



Hanging bracket

Gel Holder

I/O Panel located on bottom of fixture

LED Segment Display
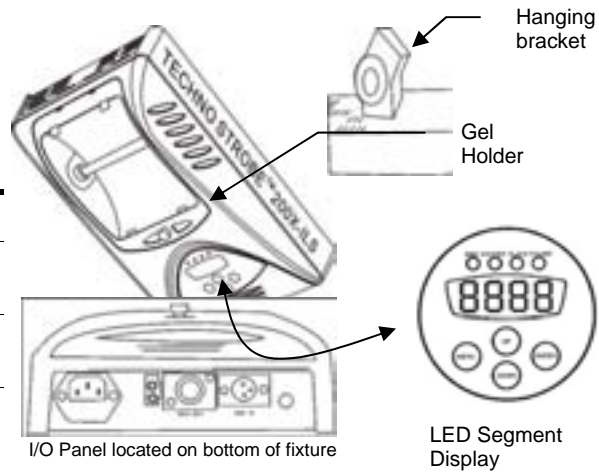
**SEGMENT BUTTONS**

| Buttons | |
| --- | --- |
| MENU | Toggles programming functions |
| DOWN | Steps backward through menu functions |
| UP | Steps forward through menu functions |
| ENTER | Confirms selected menu function |

**I/O PANEL OVERVIEW**

| I/O Panel | |
| --- | --- |
| DMX Out & In | DMX-512 connectors |
| MIC | Built in microphone |
| Sensitivity POT | Sets audio sensitivity |
| Remote control | Accepts ¼" connector from the "CA-8 Easy Controller" providing Stand By, Strobe/Next and Show1 1/Slow/Show 2 functions. |

# SETUP

## Lamp

The xenon 200 watt lamp comes pre-installed from the factory.

*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 three most left and right screws on the back of the ST-200X and lift the front cover carefully. The segment display can remain attached to the PCB during lamp replacement.

2) Unscrew the three lamp wires from their respective terminals on the PCB as illustrated in Figure 3. You may need to clip the tie-wraps that restrain the loose wires to the screw posts on the PCB in order to free the lamp.

3) Slide lamp socket out of the thin metal plate one end at a time.

4) Replace strobe with new lamp and re-fasten wires to the terminals. (CHAUVET lamp model # BL-200ST)

**ST-200X Lamp Installation**          Top view

Lamp side with 1 wire molded into ceramic base gets fastened to terminal labeled J3.

Lamp side with 2 wires;

1.  Wire molded into ceramic base is fastened to terminal labeled J4

2.  Wire coiled around the envelope of the bulb gets fastened to terminal labeled J5.

**J3**

**J4**          **J5**
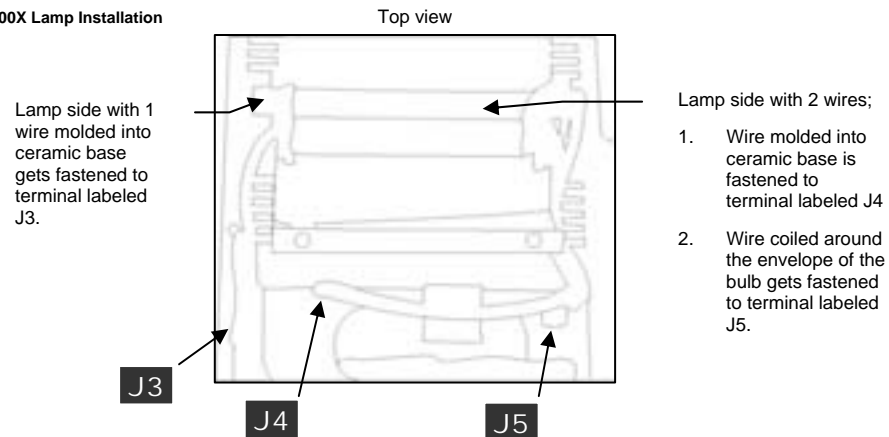
5) If you are replacing the lamp, you may want to log the fixture hours in order to track the lamps use. Navigate to the {FhrS} on the menu display to obtain this information.

6) Replace front cover and screws.

## Mounting

### ORIENTATION

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

### RIGGING

**Figure 1 - Hanging Bracket**

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.

Note!
Clamp is sold separately.

### WALL MOUNT

The ST-200X is light enough that it can be hung from a wall by its wall-mount hole located centered near the top of the back of the fixture. Side ventilation panels allow breathing room so it is important to allow at least 12 inches of unencumbered space on both sides.

## Using a Color Gel

The ST-200X is equipped with a detachable clear front cover that doubles as a gel holder as illustrated below.

1) Open the clear lamp cover by removing the thumbscrew.

2) Cut a piece of gel filter to match the size of the cover or slightly larger. The size of the gel used in the illustration was a 6.5" by 6.5".

3) Lay the gel over the opening, close cover and replace the thumbscrew securely.

# OPERATING INSTRUCTIONS

## Menu Navigation

To select any of the pre-set functions, press the **MENU** button until the desired function is shown on the display. Select the function by pressing the **ENTER** button and the display will blink. Use the **DOWN** and **UP** button to change the settings. Once the required setting has been selected, press the **ENTER** button to activate it. If you don not press the **ENTER** button, it will automatically return to the main functions without any change after idling 8 seconds. To go back to the functions without any change press the **MENU** button. The main functions are shown below:
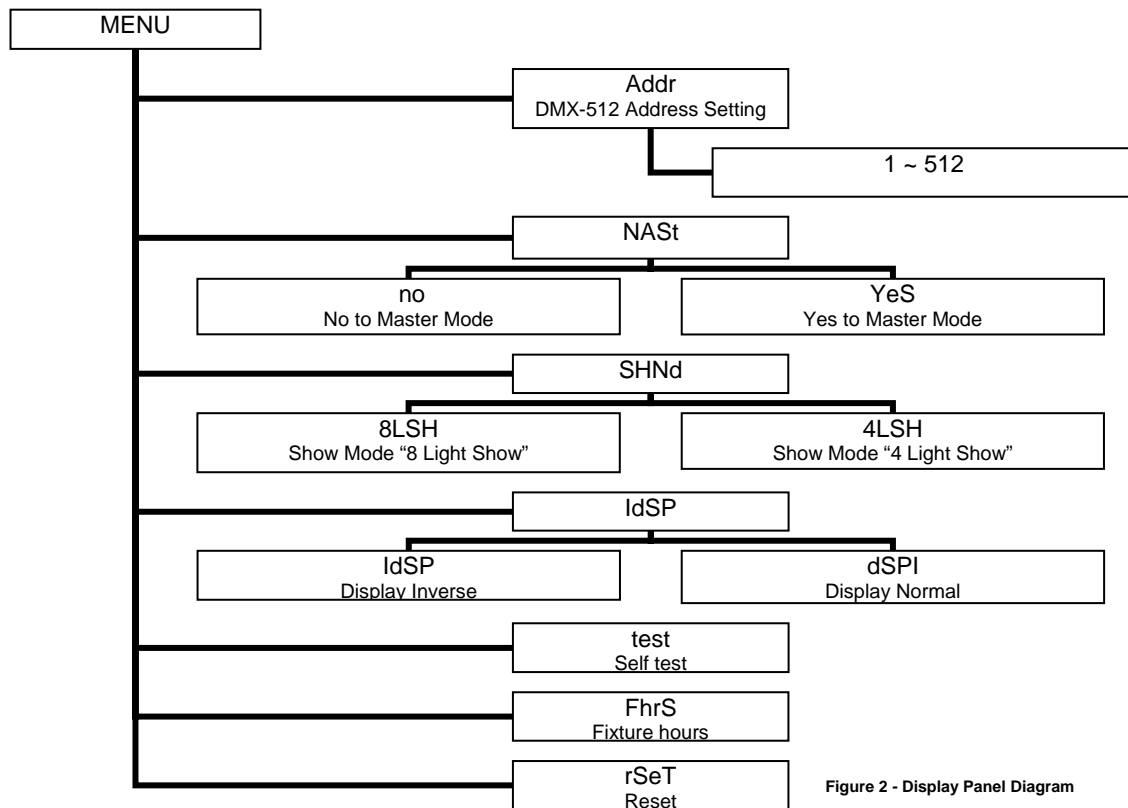
```
┌──────────────────┐
│      MENU        │
└──────────────────┘
        │
        │         ┌─────────────────────────────┐
        ├─────────│           Addr              │
        │         │   DMX-512 Address Setting   │
        │         └─────────────────────────────┘
        │                      │
        │                      │    ┌─────────────────────────┐
        │                      └────│        1 ~ 512          │
        │                           └─────────────────────────┘
        │         ┌─────────────────────────────┐
        ├─────────│           NASt              │
        │         └─────────────────────────────┘
        │          │                          │
        │  ┌──────────────────┐      ┌──────────────────┐
        │  │       no         │      │       YeS        │
        │  │  No to Master    │      │  Yes to Master   │
        │  │     Mode         │      │     Mode         │
        │  └──────────────────┘      └──────────────────┘
        │         ┌─────────────────────────────┐
        ├─────────│           SHNd              │
        │         └─────────────────────────────┘
        │          │                          │
        │  ┌──────────────────┐      ┌──────────────────┐
        │  │      8LSH         │      │      4LSH        │
        │  │ Show Mode "8      │      │ Show Mode "4     │
        │  │  Light Show"      │      │  Light Show"     │
        │  └──────────────────┘      └──────────────────┘
        │         ┌─────────────────────────────┐
        ├─────────│           IdSP              │
        │         └─────────────────────────────┘
        │          │                          │
        │  ┌──────────────────┐      ┌──────────────────┐
        │  │      IdSP         │      │      dSPI        │
        │  │ Display Inverse   │      │ Display Normal   │
        │  └──────────────────┘      └──────────────────┘
        │         ┌─────────────────────────────┐
        ├─────────│           test              │
        │         │        Self test            │
        │         └─────────────────────────────┘
        │         ┌─────────────────────────────┐
        ├─────────│           FhrS              │
        │         │       Fixture hours         │
        │         └─────────────────────────────┘
        │         ┌─────────────────────────────┐
        └─────────│           rSeT              │
                  │          Reset              │
                  └─────────────────────────────┘
```

**Figure 2 - Display Panel Diagram**

Upon powering up the unit, you will notice that it will display a fixture ID. After this initial power-up sequence, if the fixture receives no DMX signal, it will enter into a stand alone mode. Be sure to power up your DMX controller device before the lighting fixture to avoid unwanted auto mode operation.

## Operating Modes

- A stand-alone mode will listen to sound and run through its diverse range of built in programs.
- Master/Slave mode will allow the command of up to as many units you want in a synchronized light show to the sound.
- DMX control mode will provide the greatest flexibility and creativity. Each fixture trait can be controlled individually using any universal DMX-512 controller.

### STAND ALONE

The Stand Alone mode is activated automatically when the fixture is absent of DMX signal or a controller is not connected. All models will run through their built in programs as they listen to the sound.

### MASTER/SLAVE

The Master/Slave mode will allow you to link up to as many units you want in a daisy chain fashion. In this mode, the first unit in the daisy chain will automatically command all other units following. A CA-8 and CA-8F Easy controller connected to the first unit in the chain will allow enhanced simple control functions. Master/Slave operation does not require any menu or setting selections. Simply connect each fixture in a daisy like fashion using qualified 3 pin DMX cables as described below.

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

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

**Daisy Chain Connection**

Optional Controller
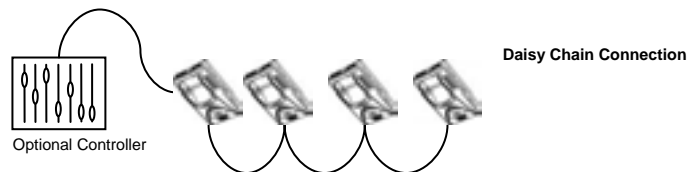
### DMX MODE

Operating in a DMX Control mode environment gives the user the greatest flexibility when it comes to customizing or creating a show.   In this mode you will be able to control each individual trait of the fixture independently.

## Menu Functions

### *DMX-512 addressing {Addr}*

This mode enables the use of a universal DMX controller device. Each fixture requires a "start address" from 1 to 511. 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.

**Table 1 - DMX Addressing**

| Fixture | DMX Channels | Notes |
|---------|--------------|-------|
| ST-200X | 2 | When calculating the next starting address for a particular fixture, simply add the number of channels used by the last fixture to the starting address of the last fixture. The result is the starting address of the next fixture.<br>Example:<br>ST-200X 2Channels,          set to Addr  001<br>    Add 2 to the previous start address  002 +<br>Next Fixture,               set to Addr  003 Total<br>    Add 2 to the previous start address  002 +<br>Next Fixture,               set to Addr  005 Total |

**Caution!** *Some controllers are factory configured to control a specific range of channels per fixture. For example, you may have a controller pre-set to control 10 channels per fixture for a total of 12 fixtures. In this case you would be required to separate all fixtures in 10 channel increments instead of the true number of channels your particular fixture utilizes.*

## SETTING THE STARTING ADDRESS

1) Press the **MENU** button until the display reads {Addr}.

2) Press the **ENTER** button to select DMX addressing. Once selected the display will read either a 1 or any other number that may have previously been set. You must make a selection within 6 seconds.

3) Press the **UP** and **DOWN** buttons to increase or decrease values until the desired value is achieved.

4) Press the **ENTER** button to activate selection.

## *Master/Slave settings {SHNd} ➢ {4LSH} ➢ {8LSH}*

By linking the units under a master/slave control mode, the first unit can direct additional units to create a sound activated, synchronized light show. This is very useful for mobile DJs who want to setup and run a show quickly.

In this mode the fixture is assigned a master status and is indicated by the **MASTER** LED. If the fixture is not connected to a controller then it will automatically enter a sound activated state. Any other units connected will automatically be assigned to Slave mode status and will operate in unison with the Master designated unit. To make the most of the 4 and 8-light show programs, it will be necessary to address the units according to the instructions below.

## SELECTING BETWEEN 4-LIGHT & 8-LIGHT SHOW

If you have 8 or more strobes and are currently running the strobes in the Master mode, then we recommend switching to the 8-light show playback.

1) On the first unit in the chain set to Master, tap the **MENU** button until the display reads {SHNd}.

2) Press the **ENTER** button to select this function. The display will immediately read the current show mode the device is set to. You must make a selection within 6 seconds.

3) Press the **UP** and **DOWN** buttons to toggle between the two shows available {4LSH} or {8LSH}.

4) Press the **ENTER** button to activate selection.

### ADDRESSING SLAVE UNITS

To make the most of the 4 and 8-light show programs, it will be necessary to address the units according to the table illustrated below. The process for addressing slave units is the same as DMX addressing.

1) Press the **MENU** button until the display reads {Addr}.

2) Press the **ENTER** button to select DMX addressing. Once selected the display will read either a 1 or any other number that may have previously been set. You must make a selection within 6 seconds.

3) Press the **UP** and **DOWN** buttons to increase or decrease values until the desired value is achieved.

4) Press the **ENTER** button to activate selection.

**Table 2 - 4-Light Show Addressing**

| 4-Pattern Show | Activity | Fixture Address {Addr} |
|---|---|---|
| SH-0 | 1234 Full On | Master  = 001 |
| SH-1 | 1-2-3-4 | Slave 1  = 003 |
| SH-2 | 4-3-2-1 | Slave 2  = 005 |
| SH-3 | 1-2-3-4-3-2 | Slave 3  = 007 |
| SH-4 | 12-34 | |
| SH-5 | 24-13 | |
| SH-6 | 23-14 | |
| SH-7 | 1-12-123-1234-123-12-1-stop | |
| SH-8 | 4-43-432-4321-432-43-4-stop | |
| SH-9 | 1-2-1-2-3-4-3-4 | |
| SH-A | 4-1-4-1-2-3-2-3 | |
| SH-B | 3-1-3-1-2-4-2-4 | |

**Table 3 - 8-Light Show Addressing**

| 8-Pattern Show | Activity | Fixture Address {Addr} |
|---|---|---|
| SH-0 | 12345678 Full On | Master  = 001 |
| SH-1 | 1-2-3-4-5-6-7-8 | Slave 1  = 003 |
| SH-2 | 8-7-6-5-4-3-2-1 | Slave 2  = 005 |
| SH-3 | 81-72-63-54-63-72-81 | Slave 3  = 007 |
| SH-4 | 15-26-37-48 | Slave 4  = 009 |
| SH-5 | 84-73-62-51 | Slave 5  = 011 |
| SH-6 | 1357-2468 | Slave 6  = 013 |
| SH-7 | 1234-5678 | Slave 7  = 015 |
| SH-8 | 1256-3478 | |
| SH-9 | 12-23-34-45-56-67-78-81 | |
| SH-A | 87-76-65-54-43-32-21-18 | |
| SH-B | 54-63-72-81 | |

## *Segment Display Configurations {IdSP}*

The display can be inverted making it easier to read the menu depending on the orientation of your fixture.

### DISPLAY INVERSE {IdSP}

1) Tap the **MENU** button until the display reads {IdSP}.

2) Unlike in other instructions, pressing the **ENTER** button will toggle between { IdSP} for normal and {dSPI} for reversed.

3) Press the **MENU** button to confirm or leave alone for 8 seconds.

## Fixture Test and Service Functions {teSt}, {FhrS}, {rSet}

### FIXTURE SELF-TEST {teSt}

The test sequence will run through all of the projection capabilities of each individual fixture, including gobo and color effects.

1) Tap the **MENU** button until the display reads {teSt}.

2) Press **ENTER** and the fixture will immediately begin to play back a test sequence. Observe tentatively for any abnormalities.

3) Press the **MENU** button to leave this mode.

### FIXTURE RESET {rSet}

This function will re-initialize the fixture by returning all motors to its startup positions or otherwise known as (home position).

1) Tap the **MENU** button until the display reads {rSet} and press **ENTER.**

### FIXTURE HOURS {FhrS}

The (fixture hours) readout displays the number of hours the fixture has been in use. It is not uncommon to find new fixtures with a few logged hours. This means the fixture was thoroughly tested prior to delivery.

1) Tap the **MENU** button until the display reads {FhrS}.

2) Press **ENTER** to view the total working hours.

3) You can leave alone and the display will return to the regular menu or press **MENU** button to return to main menu.

## CA-8 & CA-8F Easy Controller (Optional)

The CA-8 Easy Controller is used only in master/slave mode. Connect the controller to the 1/4" microphone plug in the first unit.  The table below describes the different preset shows the CA-8 Controller can command.

**CA-8 BUTTONS**

| Stand By | Mode Button | Function button | |
|---|---|---|---|
| | Mode Button | Function button | |
| **Blackout** | Audio (LED off) | Press function and all units will strobe quickly. (Audio triggered) | **Figure 3 - CA-8 Easy Controller & the CA-8F Foot Controller** |
| | Manual (LED on) | Steps to the next preset pattern. (Audio triggered) | |
| | Auto (LED blinks) | Tap to select from 12 patterns with preset speeds. Hold for 3 seconds to select 1 of 3 brightness levels. Note! You must reselect the desired pattern after setting a brightness level. Pressing the Function key in this mode will automatically step to the next pattern regardless of how long you hold the key. | |

# 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 channel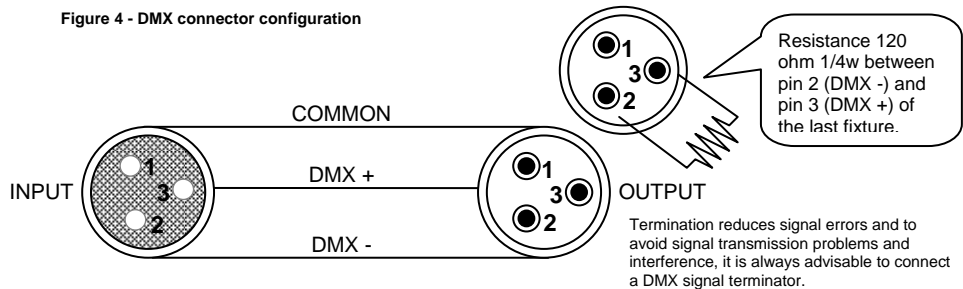s. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels 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

**Figure 4 - DMX connector configuration**



Resistance 120 ohm 1/4w between pin 2 (DMX -) and pin 3 (DMX +) of the last fixture.

COMMON

DMX +

INPUT

DMX -

OUTPUT

Termination reduces signal errors and to avoid signal transmission problems and interference, it is always advisable to connect a DMX signal terminator.

*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 |
|---------|-------|----------|
| | | **Strobe Speed** |
| | 000 ⇔ 015 | Stopped |
| | 016 ⇔ 031 | Speed 1 |
| | 032 ⇔ 047 | Speed 2 |
| | 048 ⇔ 063 | Speed 3 |
| | 064 ⇔ 079 | Speed 4 |
| | 080 ⇔ 095 | Speed 5 |
| | 096 ⇔ 110 | Speed 6 |
| 1 | 111 ⇔ 127 | Speed 7 |
| | 128 ⇔ 143 | Speed 8 |
| | 144 ⇔ 159 | Speed 9 |
| | 160 ⇔ 175 | Speed 10 |
| | 176 ⇔ 191 | Speed 11 |
| | 192 ⇔ 207 | Speed 12 |
| | 208 ⇔ 223 | Speed 13 |
| | 224 ⇔ 239 | Speed 14 |
| | 240 ⇔ 255 | Speed 15 |
| | | **Dimmer** |
| | 000 ⇔ 015 | Blackout |
| | 016 ⇔ 031 | Dimmer 1 |
| | 032 ⇔ 047 | Dimmer 2 |
| | 048 ⇔ 063 | Dimmer 3 |
| | 064 ⇔ 079 | Dimmer 4 |
| | 080 ⇔ 095 | Dimmer 5 |
| | 096 ⇔ 110 | Dimmer 6 |
| 2 | 111 ⇔ 127 | Dimmer 7 |
| | 128 ⇔ 143 | Dimmer 8 |
| | 144 ⇔ 159 | Dimmer 9 |
| | 160 ⇔ 175 | Dimmer 10 |
| | 176 ⇔ 191 | Dimmer 11 |
| | 192 ⇔ 207 | Dimmer 12 |
| | 208 ⇔ 223 | Dimmer 13 |
| | 224 ⇔ 239 | Dimmer 14 |
| | 240 ⇔ 255 | Dimmer 15 |

# 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. 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. Do not to touch the lamp glass when cleaning fixture. Oil and dirt can cause damage and premature aging of the lamp. In the event that the lamp is touched or becomes dirty, clean the lamps with an alcohol wipe.

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 (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<br><br>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.<br><br>Check device's fuse. (internal and/or external) | ✓ | | ✓ | ✓ |
| Fixture is not responding | Check DMX Dip switch settings for correct addressing<br>Check DMX cables<br>Check polarity switch settings | ✓ | | | |

**General Troubleshooting continued…**

| Symptom | Solution(s) | Applies to | | | |
|---|---|---|---|---|---|
| | | Lights | Foggers & Snow | Controllers | Dimmers & Chaser |
| 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<br><br>Adjust sound sensitivity knob | ✓ | | ✓ | ✓ |
| Fluid indicator not working | The filter tip on the end of the tube inserted into the fluid container must float freely in order to measure correctly, check to see if perhaps it is stuck | | ✓ | | |
| Fogger or Snow output has dropped | Clean with distilled water and vinegar<br><br>Replace hose | | ✓ | | |
| Lamps cuts off sporadically | Possible bad lamp or fixture is overheating.<br><br>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<br><br>Install terminator<br>Note: Keep DMX cables separated from power cables or black lights. | ✓ | ✓ | ✓ | ✓ |
| Motor movements are jerky or jumpy | Possible bad motor driver or sensors<br><br>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 fog | Check fluid tank if empty<br><br>Make sure green light is on (for power) | | ✓ | | |
| No laser output | Bounce mirror motor may have shifted during shipping, readjust | ✓ | | | |
| No light output | Check slip ring & brushes for contact<br><br>Install bulb<br><br>Call service technician | ✓ | | | |
| Relay will not work | Check reset switch<br><br>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................................................................................................................ 330 mm (13 in)
Width ................................................................................................................ 205 mm (8.1 in)
Height ...............................................................................................................100 mm (4 in)
Weight ............................................................................................................. 2.24 Kg (4.93 lbs)

**POWER**
Operating Range ....................................................................................115V 60 Hz or 240V 50 Hz
AC input.......................................................................................... 3 prongs IEC 60320 C14

**LAMPS**
Xenon (BL-200ST) ............................................................................................................ 200W

**THERMAL**
Maximum ambient temperature........................................................................................ 40° (104° F)

**FUSE**
Main.................................................................................................... 20mm Glass 3A Fast Blow

**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 Channel ...........................................................................................................................2
Remote Controller Input ..................................................................................... ¼" MONO phone plug

**ORDERING INFORMATION**
Techno Strobe™ 200X....................................................................................................ST-200X
Techno Strobe™ Replacement Bulb...................................................................................BL-200ST
Fuse 3A ....................................................................................................................P170FUSE003