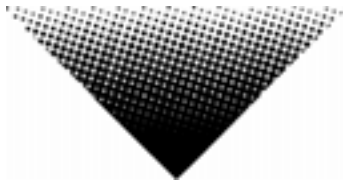


# DMX-685 Intimidator Spot 2.0™

## Snapshot

Ok on Dimmer	⊘
Outdoor OK	⊘
Sound Activated	✓
DMX512	✓
Master/Slave	✓
115V/230V Switch	✓
Replaceable Fuse	✓
User Serviceable	⊘
Duty Cycle	⊘

## USER MANUAL



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# 1. BEFORE YOU BEGIN

## What is included

- 1 x Intimidator Spot 2.0™
- 250W EHJ Lamp
- Power Cord
- Warranty Card
- 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.

Figure 1 - AC Voltage Switch



Not all fixtures have a voltage select switch. Please be sure to connect to the proper voltage.

### **Warning!**

**Verify that the voltage select switch on your unit matches 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.**

## Contact Us

### World Wide

#### General Information

Chauvet Lighting  
3000 North 29<sup>th</sup> Court  
Hollywood, FL 33020  
voice: 954.929.1115  
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fax: 954.929.5560 **(Attention: Service)**

#### World Wide Web

[www.chauvetlighting.com](http://www.chauvetlighting.com)

## 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 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by 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.
- Don't 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

- 6 to 8-channel DMX-512 moving yoke
- Pan: 540° / tilt: 270°
- Variable strobe/shutter
- Color wheel:
  - 7 colors + white
  - Rainbow color spin effect
- Rotating gobo wheel:
  - 7 interchangeable, rotating gobos + open
  - 5 metal, 2 dichroic gobos
  - Gobo wheel spin effect
- Variable motorized dimmer (0 – 100%)

### Additional Features

- Gobo size: 23.5mm outside, 17.5mm image, 0.2mm max thickness
- Round base design for flush mounting
- User-selectable pan/tilt ranges
  - Pan: 540°, 360°, 180°
  - Tilt: 270°, 180°, 90°
- Built-in automatic programs via master/slave
- Built-in sound activated programs via master/slave
- User-selectable 16bit or 8bit pan/tilt resolution
- Compact and lightweight
- Electronic transformer
- LED display menu with invert
- Display auto on/off
- Pan/tilt invert option
- Thermal switch
- Fan cooled

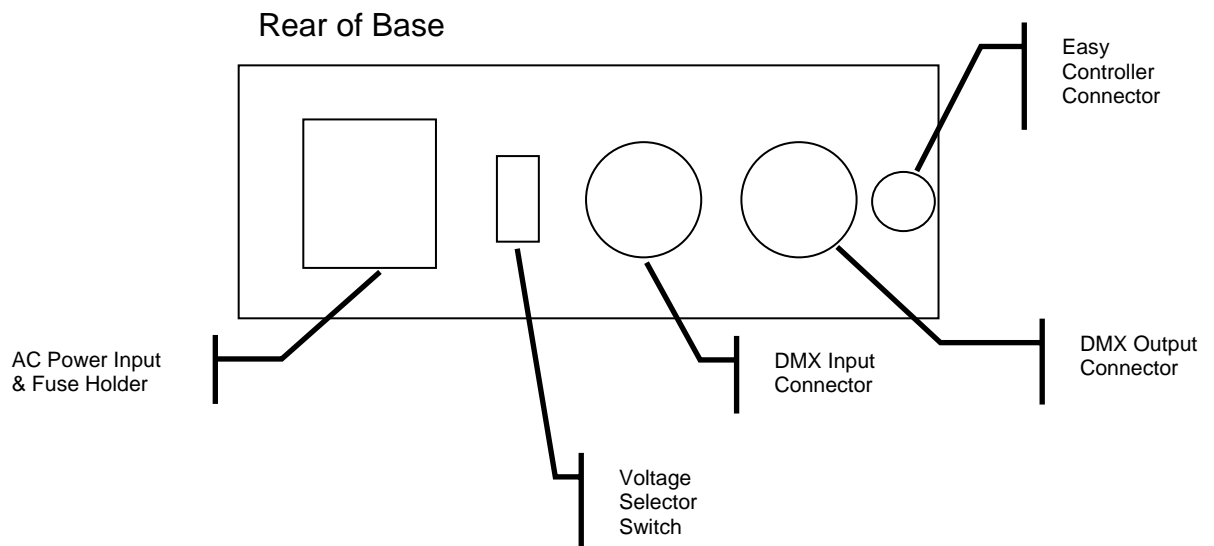
### Optional Controllers

- CA-9 Easy Controller

## DMX Channel Summary

CHANNEL	FUNCTION (16-BIT MODE)	CHANNEL	FUNCTION (8-BIT MODE)
1	Pan	1	Pan
2	Pan Fine	2	Tilt
3	Tilt	3	Shutter
4	Tilt Fine	4	Color
5	Shutter	5	Gobo
6	Color	6	Gobo Rotation
7	Gobo		
8	Gobo Rotation		

## Product Overview



# 3. SETUP

## Lamp

You will need to install a lamp prior to the initial operation of the fixture. A 250W EHJ 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 Replacement

- 1) Remove the four screws indicated in Figure A to access the lamp.
- 2) Hold the lamp with a lint-free cloth, and pull the lamp directly out of the socket as shown in Figure B.
- 3) Hold the new lamp with a lint-free cloth, and insert directly into the socket.
- 4) Reinsert the lamp housing into the fixture, and tighten the four screws removed in step 1.

**Note:** The lamp may need to be aligned. If so, follow the lamp alignment procedures on the following page.

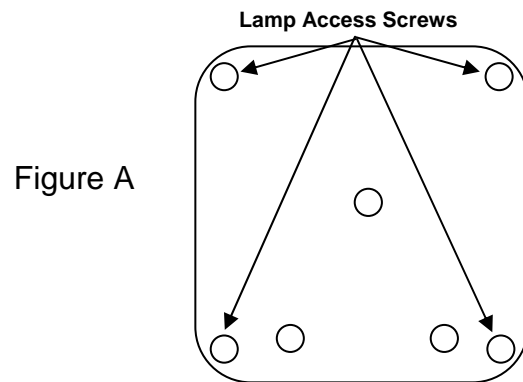
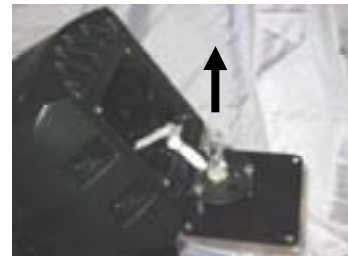


Figure B



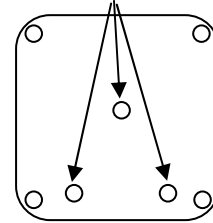
## Lamp Alignment How-To

Often, after a new installation of a lamp, you will find that there is an uneven field of light or what is referred to as a hot spot. This is due to the most intense point of the lamp source not being positioned optimally within the reflector.

There are three lamp alignment screws provided at the base of the fixture. Turning these screws allow you to optimize the projection quality of the spot as well as the overall intensity of the beam.

- 1) Project a white spot against any flat surface. Preferably the surface should be white or pastel in color.
- 2) Turning the lamp alignment screws, try to position the hot spot in the center of the beam as best as possible. This could require many attempts on your part. It is advisable to even out the screws prior to lamp alignment as described in the illustration.
- 3) Once the hot spot is in the center of the spot, do your best to turn all screws equally as to affect movement up or down within the reflector.
- 4) As you move in and out of optimum lamp focus, you will see the hot spot either get wider or narrower. The goal is to either totally diminish the hot spot by having it widen and spread across the entire spot or moving the hot spot so that it covers as much of the beam spot area as possible.

Lamp alignment screws



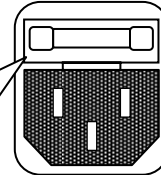
Disconnect the power cord before replacing a fuse and always replace with the same type fuse.



## Fuse Replacement

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

The fuse is located inside this compartment. Remove using a flat head screwdriver.





## Replacing Gobos

- 1) Remove the four screws indicated in figure 1 to remove the back of the head.
- 2) Remove the four screws indicated in figure 2 to remove the front of the head.
- 3) Orient the fixture so that it looks like the fixture in figure 3.
- 4) Remove the glue from the gobo (figure 4) using tweezers.
- 5) Remove the retaining spring from the gobos.
- 6) Remove the existing gobo, and replace with a new gobo.
- 7) Replace the retaining spring.
- 8) If desired, add three small dabs of high-temperature silicone glue to the retaining spring.
- 9) Repeat steps 4-8 as many times as necessary to replace all desired gobos.
- 10) Replace the front cover and retighten the four screws removed in step 2.
- 11) Replace the back cover and retighten the four screws removed in step 1.

Figure A



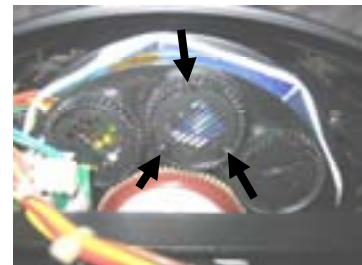
Figure B



Figure C



Figure D



## Fixture Linking

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

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

Maximum recommended serial data link distance: 500 meters (1640 ft.)

Maximum recommended number of fixtures on a serial data link: 32 fixtures

## 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.

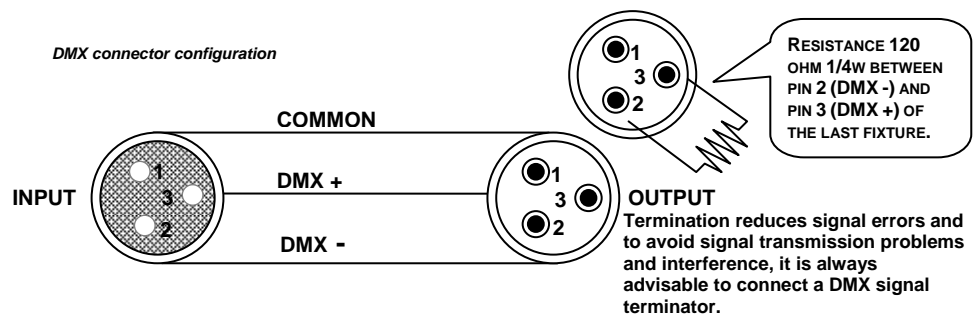
### DMX DATA CABLE

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 will have the following characteristics:

*2-conductor twisted pair plus a shield*  
*Maximum capacitance between conductors – 30 pF/ft.*  
*Maximum capacitance between conductor and shield – 55 pF/ft.*  
*Maximum resistance of 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 ohm meter to verify correct polarity and to make sure the pins are not grounded or shorted to the shield or each other.

## 3-PIN TO 5-PIN CONVERSION CHART

**Note!** If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. 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
Do not use		Do not use
Do not use		Do not use

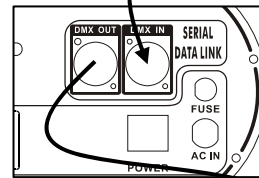
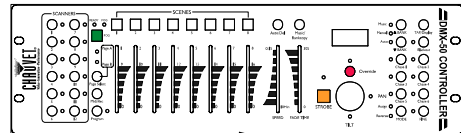
## Setting up a DMX Serial Data Link

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

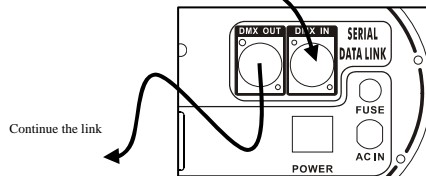
### CHAUVET Certified DMX Data Cables

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

Universal DMX Controller



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



## Stand-Alone/Master/Slave Fixture Linking

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.

Often, the setup for Master-Slave and Standalone operation requires that the first fixture in the chain be initialized for this purpose via either settings in the control panel or DIP-switches. Secondly, 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.



## Mounting

### ORIENTATION

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

### RIGGING

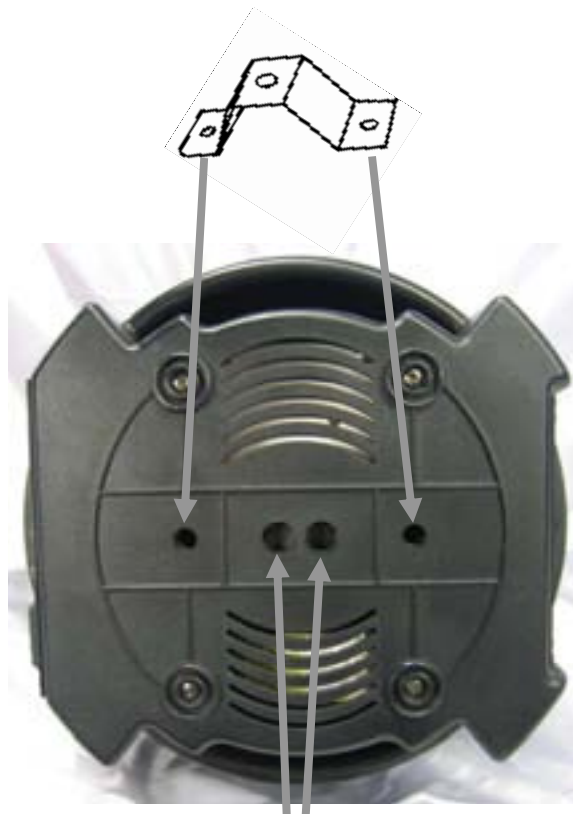
It is important never to obstruct the fan or vents pathway. Mount the fixture using a suitable "C" or "O" type clamp. Adjust the angle of the fixture by loosening both knobs and tilting the fixture. After finding the desired position, retighten both knobs.

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

*Hanging Clamp*



**NOTE!**  
CLAMP IS SOLD SEPARATELY.



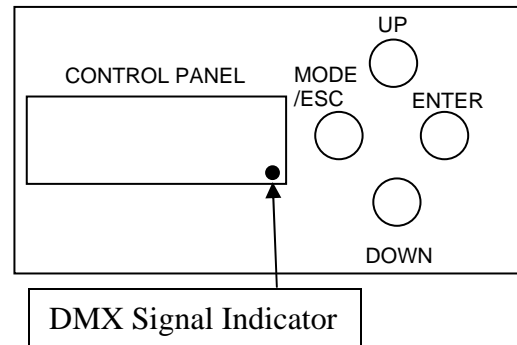
Safety Cable  
Attachment Points

# 4. OPERATING INSTRUCTIONS

## Navigating the Control Panel

Access control panel functions using the four panel buttons located directly underneath the LCD Display. **NOTE:** The display will turn off after 30 seconds if no buttons are pushed.

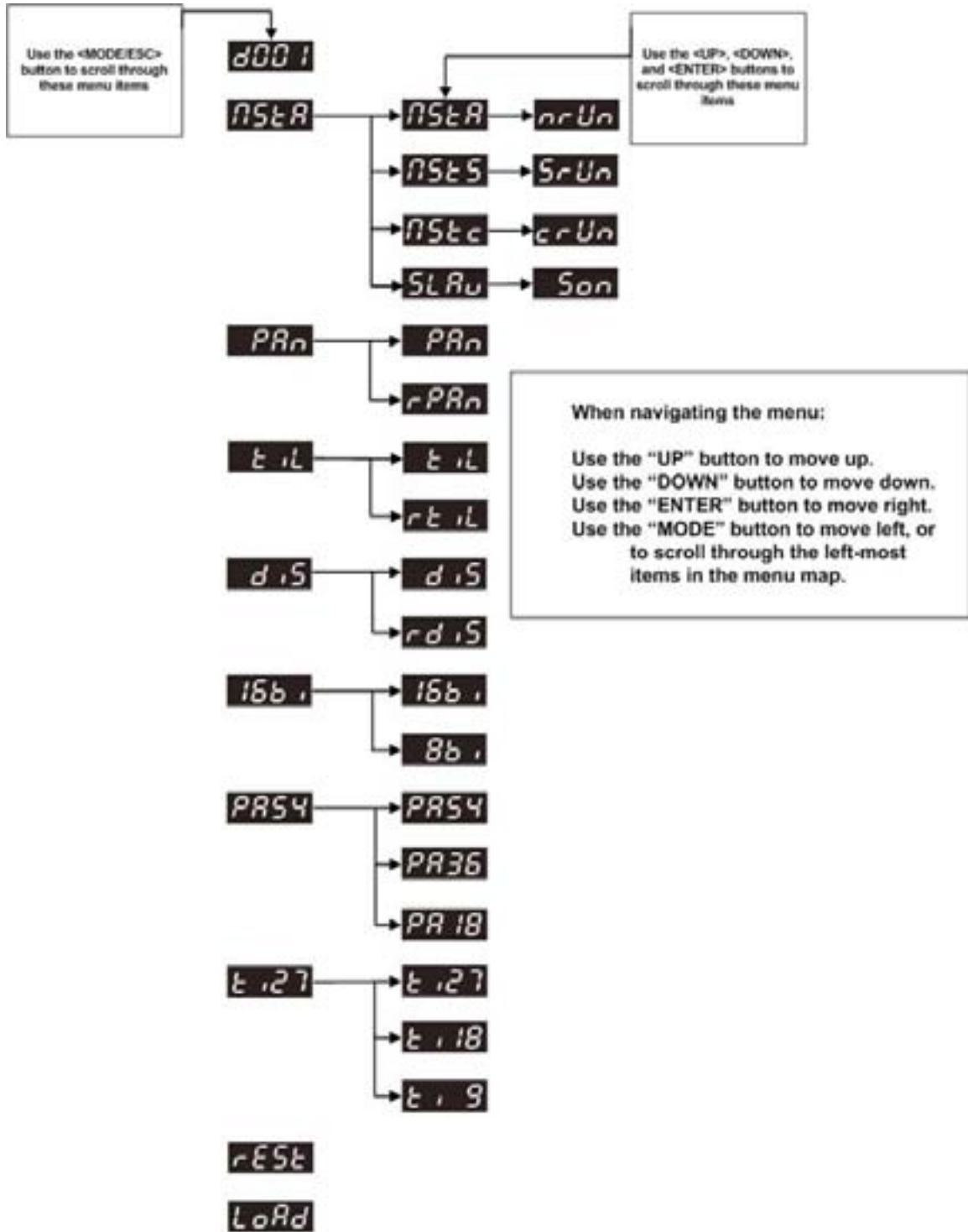
Button	Function
<MODE/ESC>	Used to access the menu or to scroll through top-level menu items.
<UP>	Scrolls through menu options in ascending order
<DOWN>	Scrolls through menu options in descending order
<ENTER>	Used to select and store the current menu or option within a menu








The Control Panel LED Display shows the menu items you select from the menu map on page 13. 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>.

Press the <MODE/ESC> button once to activate the control panel. Pressing the <MODE/ESC> button again will scroll through the different top-level menu options available. Use the <UP> and <DOWN> buttons to navigate the 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 <MODE/ESC> button.

# Menu Map






## Menu Functions



MENU OPTION	DESCRIPTION
	<b>DMX:</b> The fixture will be controlled by a DMX signal coming from a DMX controller. The starting address must be selected, and can be set using the up and down buttons.
	<b>Automatic – Master Unit:</b> Sets the fixture to Master status for Master-Slave operation and the built in programs will be triggered automatically. No data link is required; all fixtures can be set to this mode for Stand-alone operation.
	<b>Sound Active – Master Unit:</b> Sets the fixture to Master status for Master-Slave operation and the built in programs will be triggered by the sound. No data link is required; all fixtures can be set to this mode for Stand-alone operation.
	<b>Easy Controller – Master Unit:</b> Sets the fixture to Master status for Master-Slave operation and the built in programs will be triggered by the setting on the easy controller.
	<b>Slave Unit:</b> Sets the fixture to run in sync with the Master. You must set the first fixture in the data link to “Master” otherwise nothing will happen.

## User Configurations





### TO SET THE PAN TO INVERTING OR NON-INVERTING:

- 1) Press <MODE/ESC> until  is displayed. Use the <UP> and <DOWN> buttons to scroll through the two options.  is non-inverting;  is inverting.





### TO SET THE TILT TO INVERTING OR NON-INVERTING:

- 1) Press <MODE/ESC> until  is displayed.
- 2) Use the <UP> and <DOWN> buttons to scroll through the two options.  is non-inverting;  is inverting.

### TO REVERSE THE DISPLAY:

- 1) Press <MODE/ESC> until  or  is displayed.
- 2) Use the <UP> and <DOWN> buttons to scroll through the two options.  is normal;  is reversed.

### TO SET THE FIXTURE TO 16-BIT OR 8-BIT MODE:

- 1) Press <MODE/ESC> until  or  is displayed. Use the <UP> and <DOWN> buttons to scroll through the two options.  is 16-bit;  is 8-bit.

## TO CHANGE THE PAN RANGE:

- 1) Press <MODE/ESC> until **PA54**, **PA36**, or **PA18** is displayed..
- 2) Use the <UP> and <DOWN> buttons to scroll through the three options. **PA54** is 540°;  
**PA36** is 360°; **PA18** is 180°

**Note:** These settings only apply if the fixture is in master/slave or stand-alone modes. These settings will not affect a fixture operating in DMX mode.

## TO CHANGE THE TILT RANGE:

- 1) Press <MODE/ESC> until **t.27**, **t.18**, or **t.9** is displayed..
- 2) Use the <UP> and <DOWN> buttons to scroll through the three options. **t.27** is 270°;  
**t.18** is 180°; **t.9** is 90°

**Note:** These settings only apply if the fixture is in master/slave or stand-alone modes. These settings will not affect a fixture operating in DMX mode.

## Service Functions

### TO RESET THE FIXTURE:

- 1) Press the <MODE/ESC> button until **REST** is displayed, and then press the <ENTER> button. The fixture will now reset itself.

### TO RESTORE ALL SETTINGS TO THEIR FACTORY DEFAULTS:

- 1) Press the <MODE/ESC> button until **LoAd** is displayed, and then press the <ENTER> button. The fixture will now load all factory default settings.



## Operation

### Stand-Alone Mode (Sound-Active, Auto Mode, Easy Controller):

This mode allows a single unit to run to the beat of the music, or the unit will auto change in Auto Mode.

- 1) Press <MODE/ESC> until **AStA**, **AStS**, **AStC**, or **SLA<sub>U</sub>** is displayed.
- 2) Use the <UP> and <DOWN> buttons to scroll through until the desired mode is displayed and press the <ENTER> button. **AStA** is auto mode; **AStS** is sound-active, **AStC** is easy controller mode.
- 3) **nrUn** will be displayed when auto mode is selected; **srUn** will be displayed when sound-active mode is selected; **erUn** will be displayed when easy controller mode is selected.
- 4) The unit will react to the low frequencies of music via the internal microphone in Sound Active mode, or the unit will auto change in Auto Mode.

### Master/Slave Mode (Master Sound, Master Auto, Easy Controller):

This mode will allow you to link up to 32 units together without a controller.


- 1) Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units. For longer cable runs we suggest a terminator at the last fixture. For more information about terminators, see page 10.
- 2) Choose a unit to function as the master. Press <MODE/ESC> until **AStA**, **AStS**, **AStC**, or **SLA<sub>U</sub>** is displayed on the master unit.
- 3) Use the <UP> and <DOWN> buttons to scroll through until the desired mode is displayed and press the <ENTER> button. **AStA** is auto mode; **AStS** is sound-active, **AStC** is easy controller mode.
- 4) **nrUn** will be displayed when auto mode is selected; **srUn** will be displayed when sound-active mode is selected, **erUn** will be displayed when easy controller mode is selected.
- 4) Press <MODE/ESC> until **AStA**, **AStS**, **AStC**, or **SLA<sub>U</sub>** is displayed on the slave units. Use the <UP> and <DOWN> buttons to scroll through until **SLA<sub>U</sub>** is displayed and press the <ENTER> button.
- 5) **son** will be displayed when slave mode is selected.

### Easy Controller Settings

BUTTON	DESCRIPTION
Stand By	Blacks out the unit.
Function	First click: strobe on. Second click: strobe off.
Mode	First click: sound-active mode (LED will be on). Second click: auto mode (LED will be off).

## DMX Mode

This mode allows the unit to be controlled by any universal DMX controller. If you are unfamiliar with DMX, please read the DMX Primer on page 21.

- 1) Press **<MODE/ESC>** until  is displayed.
- 2) Use the **<UP>** and **<DOWN>** buttons to select the desired address and press the **<ENTER>** button.

## DMX Channel Values (16-bit mode)

CHANNEL	VALUE	FUNCTION
1	000 ⇔ 255	<b>Pan</b> 0 – 540 (128 = halfway point)
	000 ⇔ 255	<b>Pan Fine</b>
3	000 ⇔ 255	<b>Tilt</b> 0 – 270 (128 = halfway point)
	000 ⇔ 255	<b>Tilt Fine</b>
5	000 ⇔ 108	<b>Shutter and Dimmer</b> Closed > Open (0 – 100%)
	109 ⇔ 133	Open
	134 ⇔ 249	Strobe (Fast > Slow)
	250 ⇔ 255	Open
6	000 ⇔ 015	<b>Color Wheel</b> White (Open)
	016 ⇔ 031	UV
	032 ⇔ 047	Pink
	048 ⇔ 063	Green
	064 ⇔ 079	Red
	080 ⇔ 095	Blue
	096 ⇔ 111	Yellow
	112 ⇔ 127	Magenta
	128 ⇔ 191	Scroll counter-clockwise (Slow > Fast)
	192 ⇔ 255	Scroll clockwise (Slow > Fast)
7	000 ⇔ 015	<b>Gobo Wheel</b> Open
	016 ⇔ 031	Gobo 1
	032 ⇔ 047	Gobo 2
	048 ⇔ 063	Gobo 3
	064 ⇔ 079	Gobo 4
	080 ⇔ 095	Gobo 5
	096 ⇔ 111	Gobo 6
	112 ⇔ 127	Gobo 7
	128 ⇔ 191	Scroll counter-clockwise (Slow > Fast)
	192 ⇔ 255	Scroll clockwise (Slow > Fast)
8	000 ⇔ 009	<b>Gobo Rotation</b> Stop
	010 ⇔ 116	Rotate counter-clockwise (Slow > Fast)
	117 ⇔ 244	Rotate clockwise (Slow > Fast)
	245 ⇔ 255	Boomerang gobo rotation* (Fast > Slow)

\*Boomerang gobo rotation automatically rotates the gobo in one direction, and then automatically rotates it in the opposite direction an equal number of times.

## DMX Channel Values (8-bit mode)

CHANNEL	VALUE	FUNCTION
1	000 ⇔ 255	<b>Pan</b> 0 – 540 (128 = halfway point)
2	000 ⇔ 255	<b>Tilt</b> 0 – 270 (128 = halfway point)
3	000 ⇔ 108 109 ⇔ 133 134 ⇔ 249 250 ⇔ 255	<b>Shutter and Dimmer</b> Closed > Open Open Strobe (Fast > Slow) Open
4	000 ⇔ 015 016 ⇔ 031 032 ⇔ 047 048 ⇔ 063 064 ⇔ 079 080 ⇔ 095 096 ⇔ 111 112 ⇔ 127 128 ⇔ 191 192 ⇔ 255	<b>Color Wheel</b> White (Open) UV Pink Green Red Blue Yellow Magenta Scroll counter-clockwise (Slow > Fast) Scroll clockwise (Slow > Fast)
5	000 ⇔ 015 016 ⇔ 031 032 ⇔ 047 048 ⇔ 063 064 ⇔ 079 080 ⇔ 095 096 ⇔ 111 112 ⇔ 127 128 ⇔ 191 192 ⇔ 255	<b>Gobo Wheel</b> Open Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Scroll counter-clockwise (Slow > Fast) Scroll clockwise (Slow > Fast)
6	000 ⇔ 009 010 ⇔ 116 117 ⇔ 244 245 ⇔ 255	<b>Gobo Rotation</b> Stop Rotate counter-clockwise (Slow > Fast) Rotate clockwise (Slow > Fast) Boomerang gobo rotation* (Fast > Slow)

\*Boomerang gobo rotation automatically rotates the gobo in one direction, and then automatically rotates it in the opposite direction an equal number of times.

## General Troubleshooting

Symptom	Solution(s)	Applies to			
		Lights	Foggers & Snow	Controllers	Dimmers & Chaser
Auto shut off	Check fan thermal switch reset	✓			
Beam is very dim or not bright	Clean optical system or replace lamp Check 220/110v switch for proper setting	✓			
Breaker/Fuse keeps blowing	Check total load placed on device				✓
Chase is too slow	Check users manual for speed adjustment	✓		✓	✓
Device has no power	Check for power on Mains. Check device's fuse. (internal and/or external)	✓		✓	✓
Fixture is not responding	Check DMX Dip switch settings for correct addressing Check DMX cables Check polarity switch settings	✓			
Fixture is on but there is no movement to the audio	Make sure you have the correct audio mode on the control switches. If audio provided via ¼" jack, make sure a live audio signal exists Adjust sound sensitivity knob	✓		✓	✓
Lamps cuts off sporadically	Possible bad lamp or fixture is overheating. Lamp may be at end of its life.	✓			
Light will not come on after power failure	Some discharge lamps require a cooling off period before the electronics in the fixture can kick start it again, wait 5 to 10 minutes before powering up	✓			
Loss of signal	Use only DMX cables Install terminator Note: Keep DMX cables separated from power cables or black lights.	✓	✓	✓	✓
Moves slow	Check 220/110v switch for proper setting	✓			
No flash	Re-install bulb, may have shifted in shipping	✓			
No laser output	Bounce mirror motor may have shifted during shipping, readjust	✓			
No light output	Check slip ring & brushes for contact Install bulb Call service technician	✓			
Relay will not work	Check reset switch Check cable connections				✓
Remote does not work	Make sure connector is firmly connected to device	✓	✓		
Stand alone mode	All Chauvet lighting fixtures featuring stand-alone functions do not require additional settings, simply power the fixture and it will automatically enter into this mode	✓			

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

## 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>

# 5. APPENDIX

## DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX 512 will require one or 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 can cause overheating. This can lead to 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.

Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt in the unit. Clean with soft cloth using normal glass cleaning fluid. Always dry the parts carefully.

## 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.

**Note:** If you are given an RA #, 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 RA #
- 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..... 16 in (406 mm)  
Width ..... 10 in (254 mm)  
Height ..... 9 in (229 mm)  
Weight ..... 22 lbs (10 kg)

## POWER

Switch-selectable power settings ..... 120V 50/60Hz AC or 230V 50/60Hz  
Fuse..... 20mm Glass 10A 250V Fast Blow  
Power Consumption ..... 420W at 120V Max  
Inrush Power ..... 564W at 120V

## LIGHT SOURCE

Lamp..... EHJ 250W

## PHOTO OPTIC

Beam Angle ..... 14.5°  
Pan ..... 540°  
Tilt..... 270°  
Illuminance at 1m ..... 931 fc (10,018 lux)

## GOBOS

Outside diameter ..... 23.5 mm  
Image diameter (maximum) ..... 17.5 mm  
Thickness ..... 0.2 mm

## 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 ..... 6-8

## ORDERING INFORMATION

Intimidator Spot 2.0 ..... DMX-685

## WARRANTY INFORMATION

Warranty..... 2-year limited warranty