

# INTIMIDATOR™

## spot

DMX-680

USER MANUAL



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Information and specifications in this User Manual are subject to change without notice. CHAUVET assumes no responsibility or liability for any errors or inaccuracies that may appear in this manual.

# 1. Before You Begin

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## Unpacking Instructions

Immediately upon receiving a product, 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.

**Note:** If you should require sending any items back to CHAUVET, call CHAUVET for a (RMA) Return Merchandise Authorization number. The factory will not allow any shipments without an RMA.

### Your shipment includes the following:

1 x Intimidator Spot™ DMX-680  
1 x ELC 24v 250w lamp  
1 x Power cable  
2 x brackets  
Warranty Card  
Users Manual

## Contact Us

### World Wide

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# Important Safety Information



This product is designed for professional use. It is not intended for use in a household environment. This product presents risks of lethal or severe injury due to fire and heat, electric shock, ultraviolet radiation, lamp explosion, and injury from falls. **Read this manual** before installing or powering the fixture, follow the safety precautions listed below and observe all warnings in this manual and on the fixture. If you have any questions about how to operate the fixture safely, please contact CHAUVET.

## Protection against Electric Shock

- Always disconnect from AC power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- All Class I fixtures must be connected to circuits with a suitable Earth Ground.
- 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.
- Do not operate the fixture if covers are open or if any internal component is missing or damaged: an unshielded discharge lamp emits dangerous UV radiation that can cause burns and eye damage.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.

## Protection against Fire & Burns

- This product is designed to be used with very specific lamp(s). Use of any other type of lamp not stated in this manual may create a fire hazard due to possible risk of lamp explosion. Using the wrong type of lamp in this product VOIDS the warranty.
- 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.
- 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.
- Maintain a minimum distance of 1 meter (3.28 feet) from combustible materials.
- Allow this product to cool for a minimum of 15 minutes before opening, handling or removing the lamp in this product.
- Maximum ambient temperature is Ta: 40°. Do not operate fixture at temperatures higher than this.

## Protection against exposure to (UV) Ultraviolet Radiation

- Avoid direct eye exposure to lamp while it is on.
- Do not operate the fixture if covers are open or if any internal component is missing or damaged.

## Protection against Injury to persons

- Secure fixture to fastening device using a safety chain.
- A hot lamp is an explosion hazard. Do not open fixture for a minimum of 15 minutes after switching off. Wear eye and hand protection when re-lamping.
- Fixture surface may reach temperatures of up to 160° C (320° F). Handle fixture after it cools.
- 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.

### **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.***

# 2. Introduction

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## Features

- 7-channel DMX-512 moving yoke
- Pan: 510° / tilt: 260°
- Pan/tilt speed & reset control channel
- Mechanical dimmer/shutter/strobe
- Color wheel:
  - 8 colors + white
  - Rainbow color spin effect
- Gobo wheel:
  - 7 gobos + open
  - Gobo wheel spin effect
- Blackout, reset, sound activation and built-in automatic programs via DMX
- Built-in automated programs via master/slave or DMX
- Built-in sound activated programs via master/slave or DMX

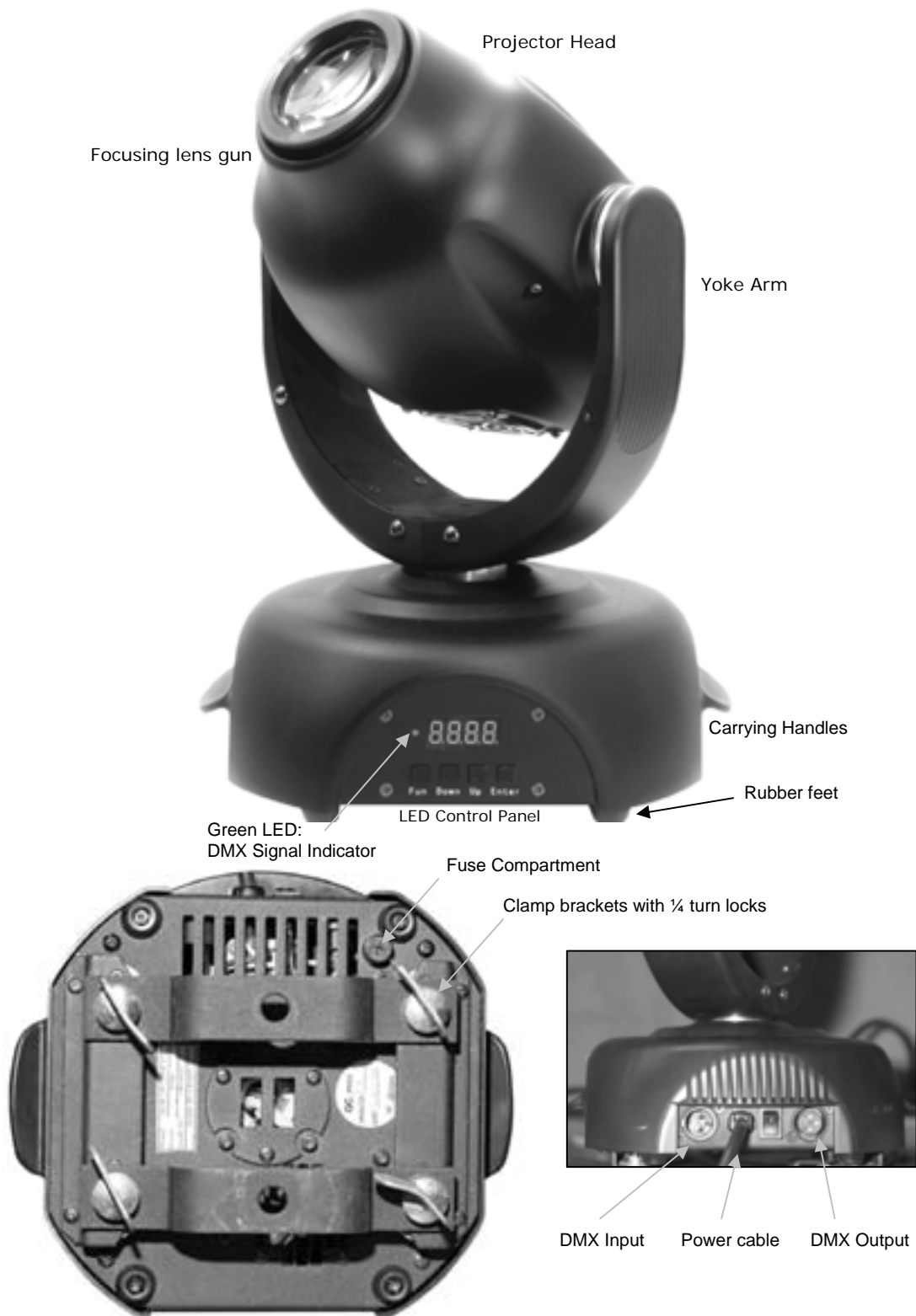
### Additional Features

- Dual hanging brackets with ¼-turn fasteners
- Compact and lightweight
- LED display menu with invert
- Pan/tilt invert option
- Micro-stepping motors
- Thermal switch & fan cooled

## DMX Channel Summary

Channel	Function
1	Auto-programs, Lamp ON/OFF
2	Dimmer
3	Color
4	Gobo
5	Vector Speed
6	Pan
7	Tilt

# Product Overview



# 3. Setup

## AC Power

**Warning!** *Verify that the power requirement label on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.*

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

### Power Cable Configuration

CABLE	Pin	International	Screw Color
BROWN	Live	L	Yellow or Brass
BLUE	Neutral	N	Silver
YELLOW/GREEN	Earth	EG (Ground)	Green

## Lamp Installation

You will need to install a lamp prior to the initial operation of the fixture.

**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.*

### Lamp Installation

1. Remove screws labeled (S1) and pull out lamp socket plate.
2. If replacing the lamp, remove old lamp first.
3. Release the retaining clips as shown on figure 1. Both the lamp along with the socket will be released.
4. Detach the lamp from the socket and replace the lamp.
5. Place the lamp back into the lamp cage and secure the clips back in place.
6. There is no lamp alignment since the lamp is already optimized inside a mirrored dichroic reflector.
7. Insert lamp socket plate back into the rear of the fixture and tighten screws to complete installation.



# Mounting

## Orientation

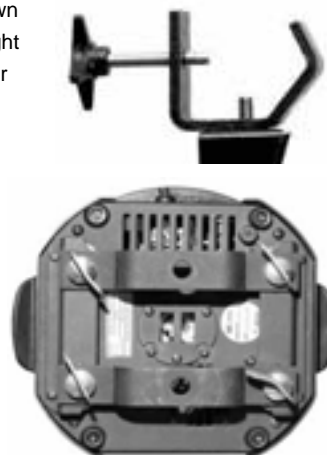
This fixture can be mounted on a truss using a clamp in any position or against a flat surface using the brackets provided.

## Rigging

The fixture includes two brackets with ¼ turn locks for attaching a standard truss mounting hanging clamp. You must supply your own clamp and make sure the clamp is capable of supporting the weight of this fixture. You can order C-clamps from any CHAUVET dealer or distributor.

1. Block access below the work area and use suitable and stable platform when installing or servicing fixture.
2. Align the clamp screw with the center hole on the yoke and tighten.
3. Verify the structure can hold 10 times the weight of all to-be installed fixtures.
4. Adjust the angle on the yoke arm as necessary.
5. Always use a safety cable or chain as a secondary source of attachment. The safety cable must hold 10 times the weight of the fixture. If safety cable attachment point is provided that is permanently affixed to the surface or body of the fixture, use that instead of looping through a hanging yoke/arm.

Hanging Clamp



# 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.

The DMX-680 fixtures use 7 channels of DMX control.

**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.



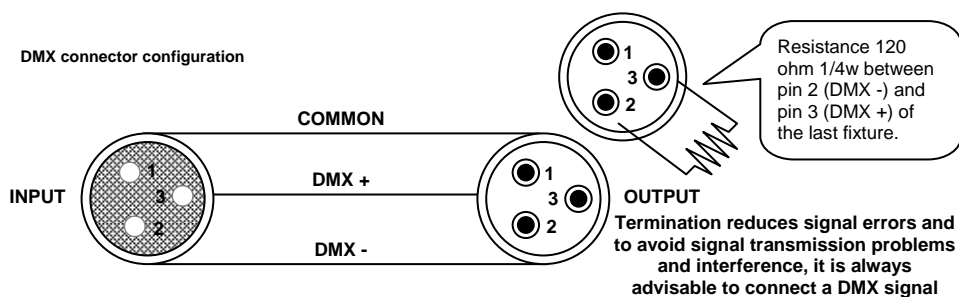
## DMX Data Cable

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 20Ω / 1000 ft.
- Nominal impedance 100 - 140Ω

## 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 to perform erratically. Test cables with 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.

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

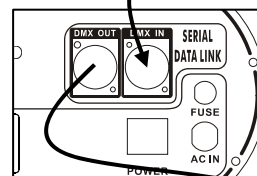
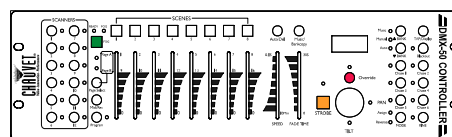
## Setting up a DMX Serial Data Link

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.

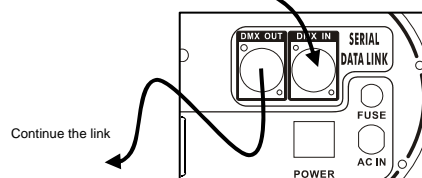
### CHAUVET Certified DMX Data Cables

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.

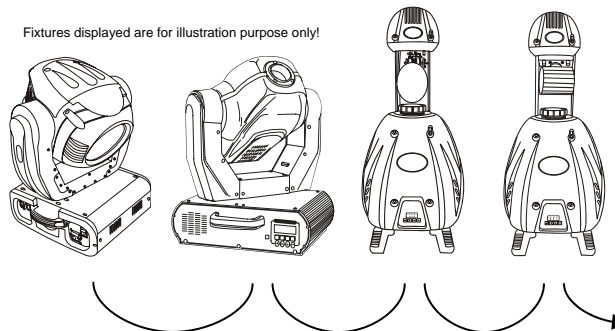


## Standalone/Master-Slave Fixture Linking

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.

Fixtures displayed are for illustration purpose only!



# 4. Operating Instructions

## Navigating the Control Panel

Access control panel functions using the four panel buttons

Button	Function
<Fun>	Used to access the menu or to return to a previous menu option
<Down>	Scrolls through menu options in descending order
<Up>	Scrolls through menu options in ascending order
<Enter>	Used to select and store the current menu or option within a menu



located directly underneath the LED Display.

The Control Panel LED Display shows the menu items you select from the menu map. To see a table of all menu functions please visit the "Menu Map Table" on page 16. When a menu function is selected, the display will show immediately the first available option for the selected menu function.

Press the <Fun> button until *Addr* appears on the display, this is the top of the menu map. Use the <Up>/<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 <Fun> button.

## Control & Operating Mode (N.o.d.E.)

**N.o.d.E.** The DMX-680 has four control or operating modes that must be defined in each fixture in order to work correctly under stand-alone, master-slave or manual DMX control. Please set the control mode according to your specific requirements.

### DMX Mode (N-dN)

MENU OPTION	DESCRIPTION
N-dN	DMX Mode: Sets the fixture to accept and operate in DMX control mode

## Stand-Alone, Master-Slave (N-So, N-SL, N-Au)

A master-slave mode setup consists of more than one fixture connected in a serial data link without the use of a controller. In a master-slave operation the slave fixtures will synchronize and will behave either identically or in a planned chase pattern to the master unit which must be the first in the serial daisy chain. A Master-Slave system can consist of an unlimited range of fixtures or at least the number stated to conform to EIA-485 standards.

MENU OPTION	DESCRIPTION
N-So.	<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.
N-SL.	<b>Sound Active – 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.
N-Au.	<b>Stand Alone – Automatic:</b> The built in programs will trigger automatically to a pre-programmed speed time.

## DMX Addressing (A.d.d.r.)

**Addr.** DMX 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.

**Note:** In order to operate in DMX control mode you must first set the fixture to operate in this mode by setting the *N-dN* option in the *Mode (NodE)* function.

### Setting the start address

1. Press the <Fun> button until *Addr* appears on the Display. Press the <Enter> button to select.
2. Use the <Down> and <Up> buttons to increase or decrease channel values until the desired start channel value is located. Four small LEDs dots will blink during the selection process.
3. Press the <Enter> button to accept the new start channel. The four small LED dots will cease to blink to confirm selection.



# User Configurations

## Individual Pan & Tilt Reverse (*r.P.A.n.*, *r.t.il.t.*)

*r.P.A.n.*  
*r.t.il.t.*

It is possible to invert the pan and tilt mirror movement from within the fixture itself. This could be helpful in situations where the positioning or rigging of a fixture led to a reverse orientation of the fixture in relation to all or most other fixtures installed. When choosing to command the pan or tilt of all fixtures at the same time you will notice that the fixtures whose orientation is different from the others will most likely move opposite of the rest. You can apply a pan and tilt Invert by following the settings in the table below.

MENU LEVEL 1	OPTION LEVEL 2	DESCRIPTION
<i>r.P.A.n.</i>	<i>Stnd.</i>	Standard Pan Movement: Normal left to right
	<i>r.E.v.</i>	Reverse Pan Movement: Inverted movement from right to left
<i>r.t.il.t.</i>	<i>Stnd.</i>	Standard Tilt Movement: Normal setting
	<i>r.E.v.</i>	Reverse Tilt Movement: Inverted setting

## Combined Pan & Tilt Reverse (*r.-.P.t.*)

MENU LEVEL 1	OPTION LEVEL 2	DESCRIPTION
<i>r.-.P.t.</i> Combi ned Setti ngs	<i>Stnd.</i>	Standard Pan/Tilt Movement: Normal setting
	<i>r.E.v.</i>	Reverse Pan/Tilt Movement: Inverted setting

## Service Functions

### Testing function (*t.E.S.t.*)

**t.E.S.t.** The TEST function provides the user a method for testing the fixtures mechanical components through the control panel. Press and hold the <Enter> button while on the specific menu option to test.

MENU OPTION	DESCRIPTION
<b>t.l.t.</b>	<b>Tilt:</b> Testing of the Tilt movement
<b>PAn.</b>	<b>Pan:</b> Testing of the Pan movement
<b>c.o.l.</b>	<b>Color:</b> Tests the color wheel
<b>Gobo.</b>	<b>Gobo:</b> Tests the gobo wheel
<b>Shut.</b>	<b>Shutter:</b> Tests the shutter

### Reverse the segment display (*d.S.P.L.*)

**d.S.P.L.** You can rotate the display 180° so that it becomes easier to read when the fixture is positioned upside down.

MENU OPTION	DESCRIPTION
<b>Stnd.</b>	<b>Standard:</b> Standard display orientation
<b>r.E.u.</b>	<b>Reverse:</b> Rotated display orientation

### Fixture reset (*r.E.S.t.*)

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

# 5. Appendix

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## 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')

## 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.

## 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 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.

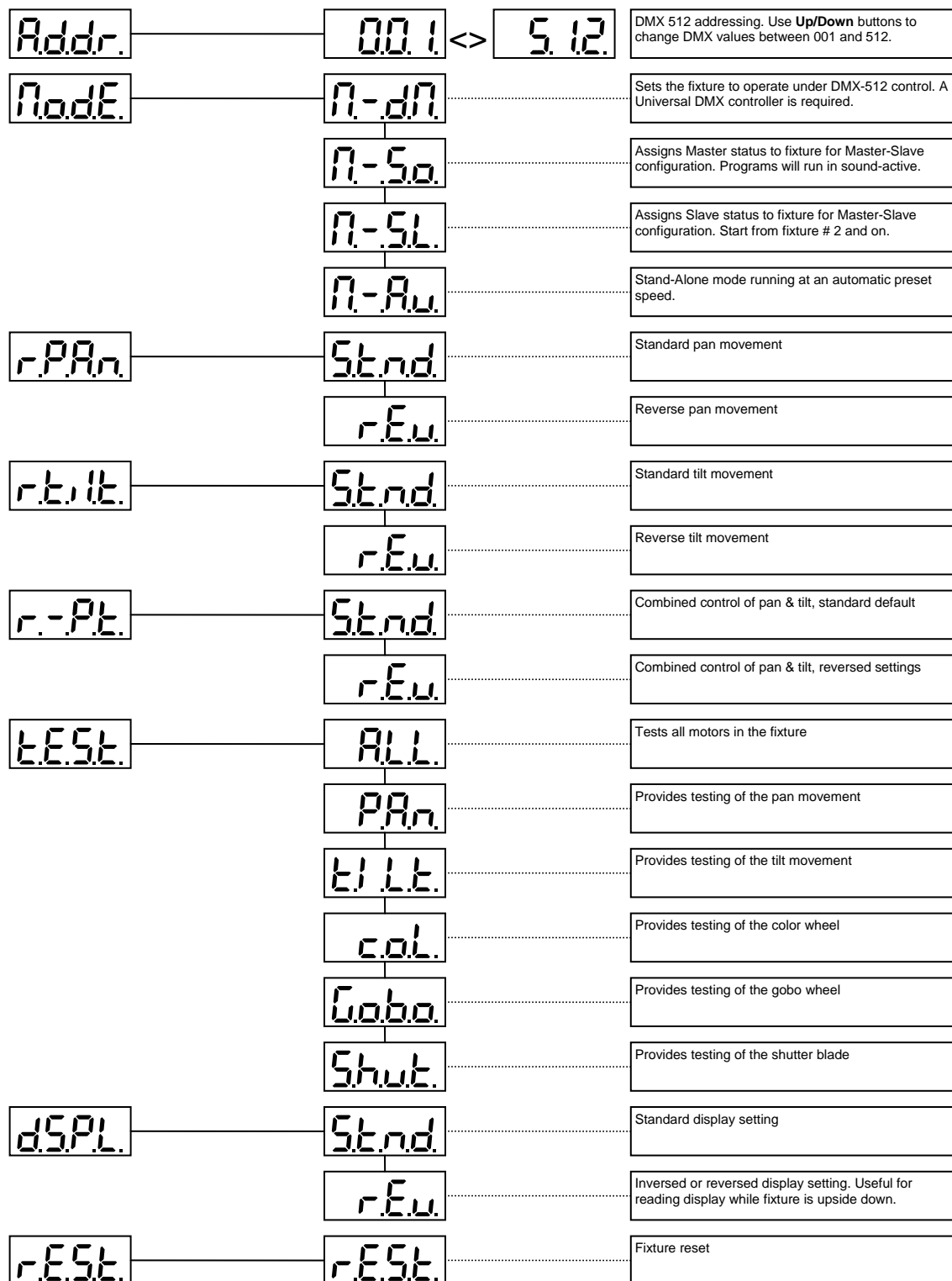
The cleaning of internal and external optical lenses and/or mirrors must be carried out periodically to optimize light output. Cleaning frequency depends on the environment in which the fixture operates: damp, smoky or particularly dirty surrounding can cause greater accumulation of dirt on the unit's 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.

## DMX Channel Values

CHANNEL	VALUE	FUNCTION
1	000 ⇔ 127	<b>Control/Operating Mode</b>
	128 ⇔ 179	DMX Mode
	180 ⇔ 223	Stand-alone (automatic)
	224 ⇔ 250	Stand-alone (sound active)
	251 ⇔ 255	Lamp turn on (after 10 seconds) Lamp shut off (after 10 seconds)
2	000 ⇔ 019	<b>Dimmer/Shutter</b>
	020 ⇔ 127	Blackout
	128 ⇔ 239	Dimmer: 0% <> 100%
	240 ⇔ 255	Strobe: Fast > Slow > Fast Open
3	000 ⇔ 015	<b>Color Wheel</b>
	016 ⇔ 031	White (Open)
	032 ⇔ 043	Pink
	044 ⇔ 055	Orange
	056 ⇔ 067	Light Blue
	068 ⇔ 079	Magenta
	080 ⇔ 091	Yellow
	092 ⇔ 107	Blue
	108 ⇔ 119	Green
	120 ⇔ 135	Red
	136 ⇔ 151	Red/green
	152 ⇔ 167	Green/blue
	168 ⇔ 183	Blue/yellow
	184 ⇔ 199	Yellow/magenta
200 ⇔ 215	Magenta/light blue	
216 ⇔ 227	Light blue/orange	
228 ⇔ 239	Orange/pink	
240 ⇔ 255	Pink/white Color scroll: Slow > Fast	
4	000 ⇔ 023	<b>Gobo Wheel</b>
	024 ⇔ 047	Open
	048 ⇔ 071	Leaves
	072 ⇔ 095	3D sphere
	096 ⇔ 119	Flowers
	120 ⇔ 143	Shapes
	144 ⇔ 167	Maze
	168 ⇔ 191	Mini triangles
192 ⇔ 255	Atomic Gobo scroll: Fast > Slow	
5	000 ⇔ 255	<b>Vector Speed:</b> (Normal > Slow)
6	000 ⇔ 255	<b>Pan:</b> 128 = halfway point
7	000 ⇔ 255	<b>Tilt:</b> 128 = halfway point



# Menu Map



## Technical Specifications

### WEIGHT & DIMENSIONS

Length.....	406.4 mm (16.0 in)
Width.....	254 mm (10.0 in)
Height.....	228.6 mm (9.0 in)
Weight.....	5.79 Kgs (12.76 lbs)

### POWER

Operating Voltage.....	110V 60 Hz or 230V 50 Hz
AC input.....	IEC 60320 C14
Current draw.....	(peak <312W @ 120V), (inrush <456W @ 120V)

### LAMPS

ELC3.....	24V 250W
Can also use ELC & ELC5.....	

### PHOTO OPTIC

Beam Angle.....	11°
Pan.....	510°
Tilt.....	260°
Illuminance.....	(2,330fc or 25,070lux) @ 1 meter

### FUSE

Main.....	20mm Glass 7A Fast Blow
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### 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.....	7

### ORDERING INFORMATION

Intimidator Spot™.....	DMX-680
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## Technical Support

Address: Service Dept.  
 3000 N 29th Ct, Hollywood, FL 33020 (U.S.A.)  
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 Telephone: (954) 929-1115 - (Press 4)  
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