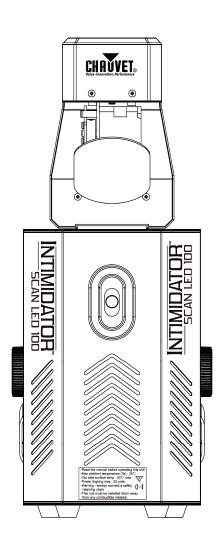


"Green Thinking

## User Manual





# TABLE OF CONTENTS

1. BEFORE YOU BEGIN	3
WHAT IS INCLUDED	
UNPACKING INSTRUCTIONS	
Manual Conventions	
ICONS	
SAFETY INSTRUCTIONS	
2. INTRODUCTION	5
Product Overview	5
3. SETUP	6
AC Power	6
Power Linking	
Mounting	7
Orientation	
Rigging	7
4. OPERATING INSTRUCTIONS	8
CONFIGURING THE STARTING ADDRESS	8
OPERATION	
DMX Operation	
Master/Slave Mode (Sound-Active, Auto Mode)	
Standalone	
Automatic-Slow	
Sound-Active	
DMX Channel Values	
5. APPENDIX	
General Troubleshooting	
DMX Primer	
Fixture Linking (Daisy Chain)	
Data Cabling	
DMX Data Cable	
CABLE CONNECTORS	
Setting the Starting Address	
3-Pin to 5-Pin Conversion Chart	
Setting up a DMX Daisy Chain	
General Maintenance	
Returns Procedure	
CLAIMS	
TECHNICAL SPECIFICATIONS	16
CONTACT US	17

## **1. BEFORE YOU BEGIN**

#### What is included

- 1 x Intimidator™ Scan LED 100
- 1 x Hanging bracket
- 1 x Power Cord
  - 1 x Warranty Card
  - 1 x User Manual

#### **Unpacking Instructions**

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Immediately upon receiving a fixture, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

### **Manual Conventions**

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

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

#### lcons

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

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

#### **Safety Instructions**

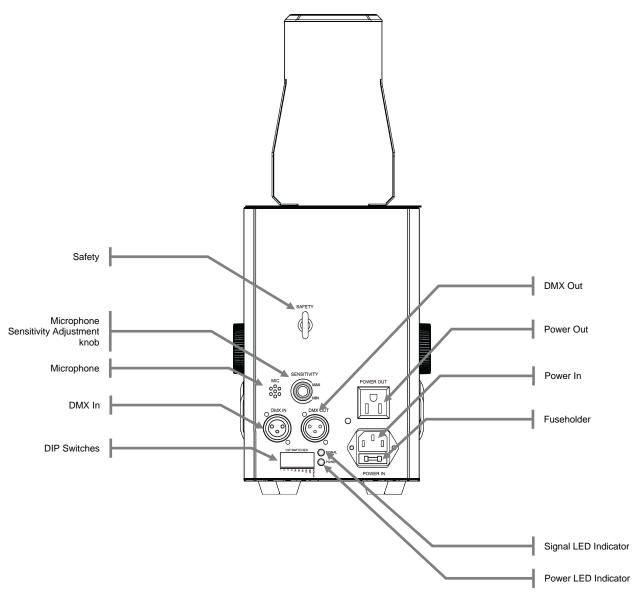


Please read these instructions carefully. It includes important information about the installation, usage and maintenance of this product.

- Please keep this User Manual for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.
- This product is intended for indoor use only! To prevent risk of fire or shock, do not expose fixture to rain or moisture.
- Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing fuse and be sure to replace with same fuse source.
- Secure fixture to fastening device using a safety chain.
- Maximum ambient temperature (Ta) is 104° F (40° C). Do not operate fixture at temperatures higher than this.
- In the event of a serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- Never connect the device to a dimmer pack.
- Make sure the power cord is never crimped or damaged.
- Never disconnect the power cord by pulling or tugging on the cord.
- Never carry the fixture directly from the cord. Always use the hanging/mounting bracket.
- Avoid direct eye exposure to the light source while it is on.

# **2.** INTRODUCTION

#### **Product Overview**



## 3. Setup

#### **AC Power**

This fixture is auto-ranging and runs on 100~240 VAC, 50/60 Hz power.

To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart. A fixture's listed current rating indicates its average current draw under normal conditions.



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



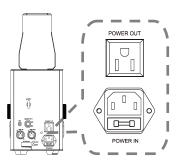
Always connect the fixture to a circuit with a suitable electrical ground.

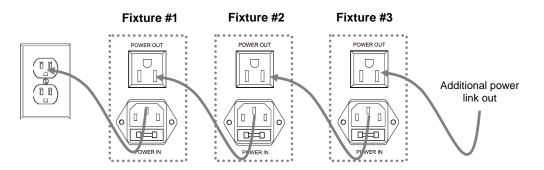
#### **Power Linking**

This fixture contains power linking via the Edison outlet located in front of the power input cable. Please see the diagram below for further explanation.



The maximum quantity of Intimidator™ Scan LED 100 that may be linked is 16.







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

#### Mounting

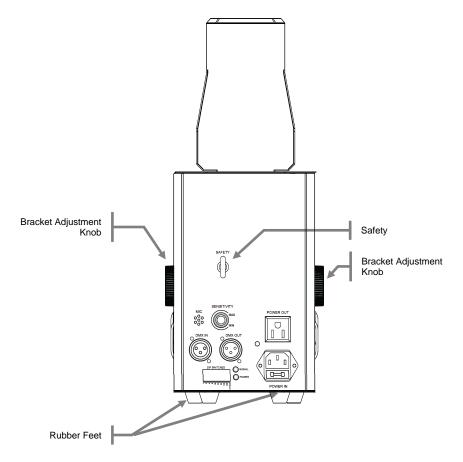
#### Orientation

The Intimidator<sup>™</sup> Scan LED 100 may be mounted in any position provided there is adequate room for ventilation.

#### Rigging

Be sure that the structure can support the weight of the fixture. Please see the "Technical Specifications" section of this manual for a detailed weight listing. Mount the fixture securely. This may be done with a screw, nut and bolt, or a hanging clamp. The hole in each bracket is 13 mm in size. When rigging, consider routine maintenance and control panel access. Please see the following notes on installation.

- If the power link out is intended to be used with multiple fixture, take into account the length of each power cable, and mount the fixtures close enough to one another to accommodate for this.
- When aiming the fixtures, you may use the bracket adjustment knob(s). Loosen the knob(s), adjust to the desired angle, and then tighten the knob(s) by turning clockwise. Do not use tools for this step, as it may cause damage.
- Use the rubber feet to support the fixture in a sitting position.
- Safety cables must always be used.



## 4. OPERATING INSTRUCTIONS

#### **Configuring the Starting Address**

The Intimidator<sup>™</sup> Scan LED 100 fixture uses **6** DMX channels. In this DMX configuration/personality, the highest channel that the fixture may be set to in order to function properly is **507**. Any address higher than this will prevent access to all of the channels, while in this mode; however, if you desire to use one of the other DMX channels configurations (personalities), please consider the total DMX channels when selecting a DMX address.

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

#### Operation

#### **DMX Operation**

This is the operating mode which will allow for control with an external DMX controller. You must set the starting address for this mode. If this is your first time using DMX, then it is recommended that you refer to the "DMX Primer" section in the "Appendix" of this manual.

- 1. Plug a DMX controller into the fixture in a daisy chain configuration.
- 2. Using the DIP switches, select the starting address (001~507).



Only connect 32 fixtures to a single DMX daisy chain!

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

This mode allows a single unit, the master, to operate in one of the standalone modes, while one or more fixtures, slaves, synchronize their responses to the master.

Master:

The master fixture may be set in any of the STANDALONE modes listed in this user manual. This must be placed **first** in the DMX daisy chain.

Slave:

1. Turn off all DIP switches and daisy chain from the output of the master.



Only connect 31 slave fixtures when operating in this mode!

#### Standalone

This fixture has several options for operating without a DMX controller. These options are accessed via the DIP switches on the back of the fixture.

Please see the chart below for further explanation.

DIP Switches							Function				
1	2	3	4	5	6	7	8	9	10		
										Dimmer	
											100%
✓											25%
	✓										50%
		~									75%
										Strobe Speed	No Strobe
			~								Speed 1
				✓							Speed 2
			✓	✓							Speed 3
										Pan/Tilt Speed	Speed 1
					~						Speed 2
						~					Speed 3
					✓	$\checkmark$					Speed 4
										Gobo Speed	Speed 1
							✓				Speed 2
								~			Speed 3
							✓	~			Speed 4
									$\checkmark$	Invert Pan/Tilt Movement	

#### Automatic

Access this mode via the DIP switches on the back of the fixture. The chart located above may be used to alter playback parameters.

Please see the instructions below for details on entering this mode.

- 1. Unplug any DMX controller.
- 2. Turn the microphone sensitivity adjustment knob fully counter-clockwise.

#### **Sound-Active**

Access this mode via the DIP switches on the back of the fixture. The chart on the previous page may be used to alter playback parameters.

Please see the instructions below for details on entering this mode.

- 1. Unplug any DMX controller.
- 2. Turn the microphone sensitivity adjustment knob fully clockwise.
- 3. If the sensitivity to music is too high, you may rotate the microphone sensitivity adjustment knob counter-clockwise until the desired level has been reached.



The unit will exit sound-active mode if you rotate the microphone sensitivity adjustment knob fully counter-clockwise!



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

#### **DMX Channel Values**

#### 6-CH Mode

CHANNEL	VALUE	FUNCTION			
1	000 ⇔ 005 006 ⇔ 255	Dimmer Blackout 1%~100%			
2	000 ⇔ 005 006 ⇔ 255	<b>Strobe</b> Open Strobe: slow~fast			
3	000 ⇔ 255	<b>Pan</b> 0°~180°			
4	000 ⇔ 255	<b>Tilt</b> 0°~90°			
5	090 ⇔ 119 120 ⇔ 149 150 ⇔ 179 180 ⇔ 209	Operating Mode Open (white) Gobo 1 Gobo 2 Gobo 3 Gobo 4 Gobo 5 Gobo 6 Gobo 7 Gobo Wheel Rotate ( <i>use C</i> Sound-Active	CH.6 to control the s	peed)	
6	000 ⇔ 009 010 ⇔ 255	<b>Gobo Wheel Rotate Spee</b> Stop Slow~fast	d (use when CH.5	is between 2	40 ⇔ 249)
1	2	3 4	5	6	7



# 5. Appendix

## **General Troubleshooting**

Symptom	POSSIBLE CAUSE(S)	POSSIBLE ACTION(S)
Breaker/Fuse	Excessive circuit load	Check total load placed on the electrical circuit.
keeps blowing	<ul> <li>Short circuit along the power wires</li> </ul>	<ul> <li>Check for a short in the electrical wiring (internal and/or external).</li> </ul>
Device does not	No power	Check for power on Mains.
power up	<ul> <li>Loose power cord</li> </ul>	Check power cord
	Wrong DMX addressing	<ul> <li>Check Control Panel and unit addressing</li> </ul>
	<ul> <li>Damaged DMX cables</li> </ul>	<ul> <li>Check DMX cables</li> </ul>
Fixture is not responding to DMX	<ul> <li>Wrong polarity settings on the controller</li> </ul>	<ul> <li>Check polarity switch settings on the controller</li> </ul>
	<ul> <li>Loose DMX cables</li> </ul>	<ul> <li>Check cable connections</li> </ul>
	<ul> <li>Faulty DMX interface</li> </ul>	<ul> <li>Replace DMX input</li> </ul>
	<ul> <li>Faulty Main PCB</li> </ul>	Replace Main PCB
	<ul> <li>Non DMX cables</li> </ul>	<ul> <li>Use only DMX compatible cables</li> </ul>
	<ul> <li>Bouncing signals</li> </ul>	<ul> <li>Install terminator as suggested.</li> </ul>
Loss of signal	<ul> <li>Long cable / Low level signal</li> </ul>	<ul> <li>Install amplifier right after fixture with strong signal.</li> </ul>
LUSS OF SIGNAL	<ul> <li>Too many fixtures</li> </ul>	<ul> <li>Install an optically coupled DMX splitter after unit #32.</li> </ul>
	Interference from AC wires	Keep DMX cables separated from power cables or black lights.



If you still have a problem after trying the above solutions, please contact CHAUVET  $\ensuremath{\mathbb{R}}$  Technical Support.

#### **DMX Primer**

There are 512 channels in a DMX connection. A fixture capable of receiving DMX will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will all respond exactly the same.

DMX fixtures are designed to receive data through a daisy chain. A daisy chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair DMX data cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+).

#### Fixture Linking (Daisy Chain)

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



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

Maximum recommended cable distance: 500 m (1640 ft) Maximum recommended number of fixtures on a daisy chain: 32

#### **Data Cabling**

To link fixtures together you must obtain data cables. You can purchase CHAUVET® certified DMX cables directly from a dealer/distributor or construct your own cable. If you choose to create your own cable please use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

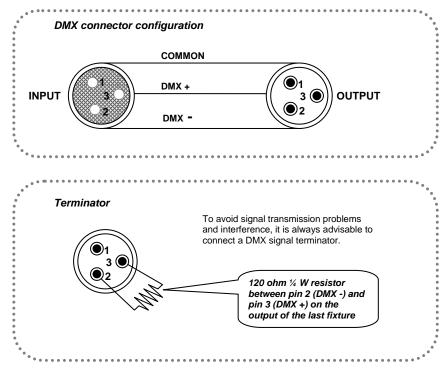
#### **DMX Data Cable**

Use a Belden© 9841 or equivalent cable which meets the specifications for EIA RS-485 applications. Standard microphone cables cannot transmit DMX data reliably over long distances. The cable must have the following characteristics:

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

#### **Cable Connectors**

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



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

## **Setting the Starting Address**

This DMX mode enables the use of a universal DMX controller device. Each fixture requires a start address from 1~512. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that uses six DMX channels and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, and 105. Choose start addresses so that the channels used do not overlap, and note the start address selected for future reference.

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

#### 3-Pin to 5-Pin Conversion Chart



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

	3-FIN TO 3-FIN CONVERSION CHART					
_	Conductor	3-Pin Female (Output)	5-Pin Male (Input)			
_	Ground/Shield	Pin 1	Pin 1			
_	Data ( - ) signal	Pin 2	Pin 2			
_	Data ( + ) signal	Pin 3	Pin 3			
_	Not used		Pin 4			
	Not used		Pin 5			

#### 3-PIN TO 5-PIN CONVERSION CHART

#### Setting up a DMX Daisy Chain

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

# Universal DMX Controller



Continue the link

#### **General Maintenance**

To maintain optimum performance and minimize wear, fixtures should be cleaned frequently. Usage and environment are contributing factors in determining 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.
- Clean all lenses when the fixture is cool with a mild solution of glass cleaner or Isopropyl Alcohol and a soft lint free cotton cloth or lens tissue.
- Apply solution to the cloth or tissue and drag dirt and grime to the outside of the lens.
- Gently polish optical surfaces until they are free of haze and lint.

The cleaning of 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 surroundings can cause greater accumulation of dirt on the unit's optics. Clean with soft cloth using normal glass cleaning fluid. Clean the external optics at least every 20 days. Clean the fixture at least every 30/60 days.



Always dry the parts carefully after cleaning them.

Never spin a fan using compressed air.

#### **Returns Procedure**

Returned merchandise must be sent prepaid and in the original packing; call tags will not be issued. Package must be clearly labeled with a Return Merchandize Authorization Number (RMA #). Products returned without the RMA # will be refused. Call CHAUVET® and request an RMA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to pack fixture properly; any shipping damage resulting from inadequate packaging is the customer's responsibility. As a suggestion, proper UPS packing or double-boxing is always a safe method to use. CHAUVET® reserves the right to use its own discretion to repair or replace product(s).



If you are given an RMA #, please include the following information on a piece of paper inside the box:

- 1) Your name
- 2) Your address
- 3) Your phone number
- 4) The RMA #
- 5) A brief description of the symptoms

#### Claims

Damage incurred in shipping is the responsibility of the shipper; therefore, the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

## **TECHNICAL SPECIFICATIONS**

#### WEIGHT & DIMENSIONS

Length         5.7 in (145 m           Width         6.8 in (172 m           Height         11.8 in (300 m           Weight         6.9 lbs (3.1	nm) nm)
MOVEMENT RANGE Pan1 Tilt	
POWER         100~240 VAC, 50/60           Power consumption @ 120 V         27 W (0.5 A) max, 0.2 A intra           Power consumption @ 230 V         25 W (0.2 A) max, 0.2 A intra           Power output         16 units n	ush ush
LIGHT SOURCE Type	ite)
PHOTO OPTIC Lux	
INDOOR/OUTDOOR Rating	only
THERMAL Maximum ambient temperature	, C)
CONTROL & PROGRAMMING Data inputlocking 3-pin XLR male soo Data outputlocking 3-pin XLR female soo Data pin configurationpin 1 shield, pin 2 (-), pin 3 ProtocolsDMX-512 US DMX Channels (user-configurable)	cket (+) ITT
ORDERING INFORMATION Intimidator™ Scan LED 100INTIMIDATORSCANLED	100
WARRANTY INFORMATION Warranty2-year limited warra	nty

## **CONTACT US**

World Wide

CHAUVET® **General Information** 5200 NW 108<sup>th</sup> Ave Sunrise, FL 33351 voice: 954.929.1115 fax: 954.929.5560 toll free: 800.762.1084 CHAUVET®

**Technical Support** 

5200 NW 108<sup>th</sup> Ave Sunrise, FL 33351 voice: 954.929.1115 (Press 4) fax: 954.929.5560 (Attention: Service)

World Wide Web

www.chauvetlighting.com