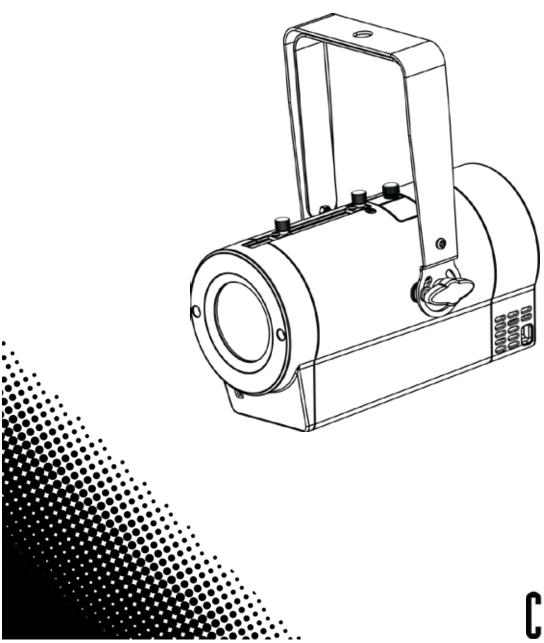
# Gobo • • •

**User Manual** 





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## 1. Before You Begin

What Is	Gobo Zoom USB	<ul> <li>Warranty</li> </ul>	Card		
Included	Power Cord	Quick Re	ference Guide		
Unpacking	Carefully unpack the product immedi	iately and check the	container to ma	ke sure a	all the
Instructions	parts are in the package and are in go	od condition.			

**Claims** If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier immediately, not Chauvet. Failure to report damage to the carrier immediately may invalidate your claim. In addition, keep the box and contents for inspection.

For other issues, such as missing components or parts, damage not related to shipping, or concealed damage, file a claim with Chauvet within 7 days of delivery.

Text	Convention	Meaning
Conventions	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
	Menu > Settings	A sequence of menu options to be followed
	<enter></enter>	A key to be pressed on the product's control panel
	ON	A value to be entered or selected
Symbols	Symbol	Meaning
-	Â	Electrical warning. Not following these instructions may cause electrical damage to the product, accessories, or the user.
	$\triangle$	Critical installation, configuration, or operation information. Not following these instructions may make the product not work, cause damage to the product, or cause harm to the operator.
	Í	Important installation or configuration information. The product may not function correctly if this information is not used.
		Useful information.

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Product at a	Use on Dimmer	×	Auto Programs	×
Glance	Outdoor Use	ж	Auto-ranging Power Supply	Р
	Sound-Active	×	Replaceable Fuse	Р
	DMX	Р	User-Serviceable	×
	Master/Slave	Ρ		

## **Safety Notes** Please read the following Safety Notes carefully before working with the product. The Notes include important safety information about installation, usage, and maintenance.

- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect the product from the power source before cleaning or replacing the fuse.



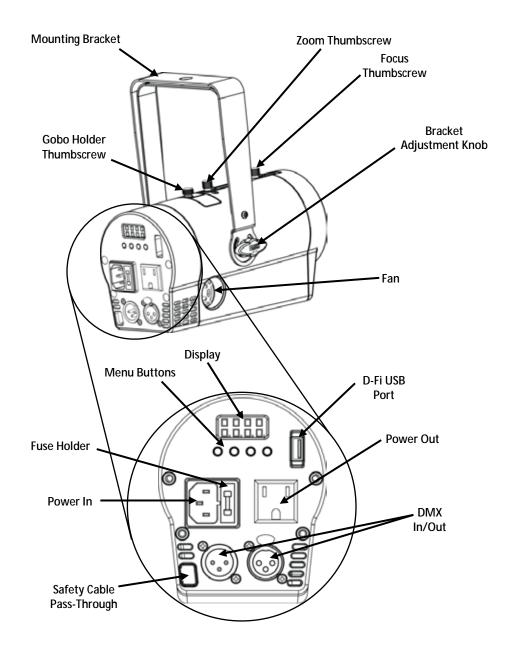
- Avoid direct eye exposure to the light source while the product is on. Make sure the power cord is not crimped or damaged.
- Never disconnect the product from power cord by pulling or tugging on the cord.
- If mounting the product overhead, always secure to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the product when operating.
- Do not touch the product's housing when operating because it may be very hot.
- The product is not intended for permanent installation.
- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- The product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose the product to rain or moisture.
- Always install the product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Be sure that no ventilation slots on the product's housing are blocked.
- Never connect the product to a dimmer.
- Make sure to replace the fuse with another of the same type and rating.
- Never carry the product from the power cord or any moving part. Always use the hanging/mounting bracket.
- The maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate the product at higher temperatures.
- In the event of a serious operating problem, stop using the product immediately.
- Never try to repair the product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.



Keep this User Manual for future use. If you sell the product to someone else, be sure that they also receive this document.

## 2. INTRODUCTION

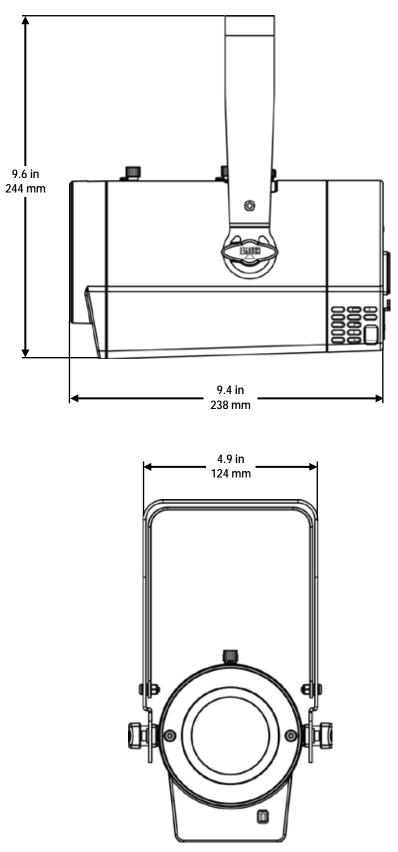
## **Product Overview**





WARNING! DO NOT plug anything other than a D-Fi USB into the USB port. Doing so may cause damage to the product.

## **Product Dimensions**



## 3. Setup

AC Power The Gobo Zoom USB has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz. To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.

Always connect the product to a protected circuit (circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.



To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.

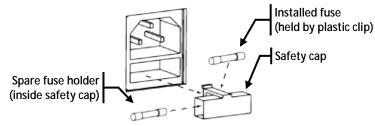


Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

1. use

**Replacement** 3.

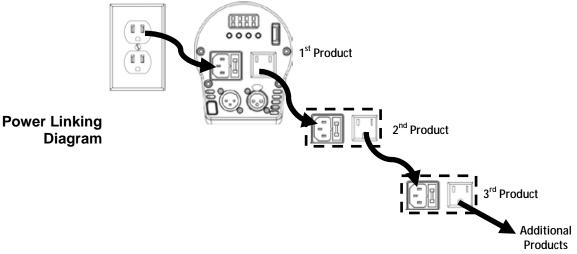
- Wedge the tip of a flat-head screwdriver into the slot of the fuse holder. Pry the fuse holder out of the housing. 2.
- Remove the blown fuse from the holder and replace with a fuse of the exact same type and rating.
- 4. Insert the fuse holder back in place and reconnect power.





#### Disconnect the product from the power outlet before replacing the fuse.

The product provides power linking via the Edison outlet located in the back of the product. Please see the diagram below for further explanation.





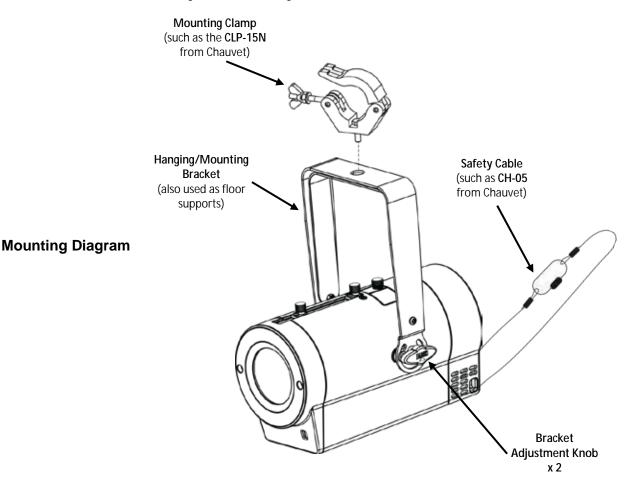
You can power link up to 13 Gobo Zoom USB products on 120 VAC or up to 24 Gobo Zoom USB products on 230 VAC.



The power linking diagram corresponds to the North American version of the product ONLY! If using the product in other markets, you must consult with the local Chauvet distributor as power linking connectors and requirements may differ in your country or region.

**Mounting** Before mounting the product, read and follow the safety recommendations indicated in the <u>Safety Notes</u>.

- **Orientation** The Gobo Zoom USB may be mounted in any position; however, make sure adequate ventilation is provided around the product.
  - **Rigging** · Before deciding on a location for the product, always make sure there is easy access to the product for maintenance and programming purposes.
    - Make sure that the structure onto which you are mounting the product can support the product's weight. See the <u>Technical Specifications</u> for weight information.
    - When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
    - When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.
    - When power linking multiple products, mount the products close enough for power linking cables to reach.
    - The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.



## 4. OPERATION

**Control Panel Operation Deration To access the control panel functions, use the four buttons located underneath the display. Please refer to the <u>Product Overview</u> to see the button locations on the control panel.** 

Button	Function
<menu></menu>	Press to find an operation mode or to back out of the current menu option
<up></up>	Press to scroll up the list of options or to find a higher value
<down></down>	Press to scroll down the list of options or to find a lower value
<enter></enter>	Press to activate a menu option or a selected value

Menu Map	Main Level	Programm	ing Levels	Description
	2-CH	d 1–d512		2-channel DMX mode
-		St	oP	No rotation
	Gobo	L-SP	L 0–L255	Left rotation speed
		r-SP	r 0–r255	Right rotation speed
	U	U 0-	U255	Dimmer
	SEr	0	N	IR function on or off
	JEI	0	FF	

DMX Linking	The Gobo Zoom USB works with a DMX controller. Information about DMX is in the CHAUVET DMX Primer, which is available from the Chauvet website <u>http://www.chauvetlighting.com/downloads/DMX Primer rev05 WO.pdf</u> .
Configuration (DMX)	<ul> <li>Set the product in DMX mode to control with a DMX controller.</li> <li>Connect the product to a suitable power outlet.</li> <li>Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.</li> </ul>
DMX Starting Address	<ul> <li>When selecting a starting DMX address, always consider the number of DMX channels the DMX mode uses. If you choose a starting address that is too high, you could restrict the access to some of the product's channels.</li> <li>The Gobo Zoom USB uses 2 DMX channels in a 2-CH DMX mode, which defines the highest configurable address to 511.</li> <li>If you are not familiar with the DMX protocol, download the DMX Primer from www.chauvetlighting.com.</li> <li>To select the starting address, do the following:</li> <li>Press <menu> repeatedly until 2-CH shows on the display.</menu></li> <li>Use <up> or <down> to select the starting address.</down></up></li> <li>Press <enter>.</enter></li> </ul>

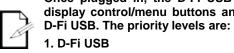
## **DMX Channel Assignments and Values**

2-CH	Channel	Function	Value	Percent/Setting
	1	Dimmer	000 <b>6</b> 255	0–100%
-			000	Stop
•	2	Gobo Rotation	001 <b>ó</b> 122	Right rotation (fast to slow)
	2	GODO ROLALION	123 <b>6</b> 133	Stop
			134 <b>6</b> 255	Left rotation (slow to fast)

D-Fi USB The Gobo Zoom USB is able to become a D-Fi wireless receiver/transmitter with the use of the D-Fi USB from CHAUVET DJ. Simply set the product's DMX Personality and DMX **Connectivity** Address, set the DIP switch D-Fi receiving/transmitting channel, then plug it into the D-Fi USB port.

WARNING! DO NOT plug anything other than a D-Fi USB into the USB port. Doing

Once plugged in, the D-Fi USB will take over the product. Wired DMX, manual display control/menu buttons and IRC-6 will be unavailable until you unplug the



1. D-Fi USB 2. Wired DMX 3. IRC-6 Remote Control

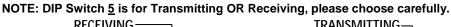
4. Manual Digital Display/Menu Buttons

Configuration (D-Fi USB)

- 1. Set the DMX Personality and DMX address on your product.
- 2. Use the Chart provided to set BOTH:
  - the Channel, and then

so may cause damage to the product.

the Receiving or Transmitting option. .



**D-Fi USB DIP Switch** Channels

	RECEIVING —		
Channel 1		Channel 1	
Channel 2	88886	Channel 2	
Channel 3		Channel 3	82852
Channel 4		Channel 4	99999
Channel 5	<u> </u>	Channel 5	88982
Channel 6		Channel 6	999992
Channel 7		Channel 7	89696
Channel 8		Channel 8	밑밑믭밑
Channel 9		Channel 9	888
Channel 10	28826	Channel 10	286222
Channel 11		Channel 11	89966
Channel 12	밑밑ㅁ밑릅	Channel 12	
Channel 13		Channel 13	
Channel 14		Channel 14	민준민민님
Channel 15		Channel 15	
Channel 16	밑밑밑묻물	Channel 16	

# (Standalone)

**Configuration** Set the product in one of the standalone modes to control without a DMX controller.

Connect the product to a suitable power outlet.

Never connect a product that is operating in any standalone mode to a DMX string connected to a DMX controller. Products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

Rotation To set the rotation direction and speed for the Gobo Zoom USB, follow the instructions below:

- 1. Press <MENU> repeatedly until Gobo shows on the display.
- 2. Press <ENTER>.
- Use <UP> and <DOWN> to select one of the following: 3
  - StoP (for no rotation)
  - L-SP (for left rotation)
    - or
  - r-SP (for right rotation)
- 4. Press <ENTER>.
- 5. For L-SP or r-SP, use <UP> and <DOWN> to increase or decrease the rotation speed.
- 6. Press <ENTER>.

To set the dimmer value, do the following: Dimmer

- 1. Press <MENU> repeatedly until U-- shows on the display.
- 2. Press <ENTER> and Uxxx will show on the display:
- 3. Use <UP> and <DOWN> to increase or decrease the dimmer value.
- 4. Press <ENTER>.

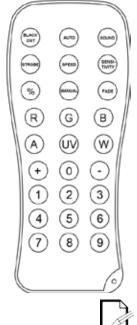
IRC-6 Infrared The Gobo Zoom USB is compatible with the IRC-6 infrared remote control from Chauvet. To activate IR mode, follow the instructions below:

Remote 1. Press <MENU> repeatedly until SEr shows on the display.

**Control** 2. Press **<ENTER>** to accept.

- 3. Press <UP> or <DOWN> to select ON or OFF.
- 4. Press <ENTER>.

## **IRC-6** Operation



#### Rotation

To set the rotation direction:

- 1. Press <AUTO> on the IRC-6.
- 2. Press <+> or <-> to choose between L-SP, r-SP, or StoP.

To adjust the speed of the rotation:

1. Press <SPEED> on the IRC-6.

2. Press <+> or <-> to either increase or decrease the rotation speed.

#### Dimmer

To adjust the dimmer level:

1. Press <MANUAL> on the IRC-6.

2. Press <+> or <-> to increase or decrease the dimmer level.

#### Black Out

To black out the light:

Press <BLACK OUT> on the IRC-6.

This will turn off the light until the button is pressed again.

NOTE: The IRC will not respond to any inputs when Black Out is activated. If the remote does not respond when a button is pressed, try pressing **<BLACK OUT>**. You may have inadvertently activated Black Out.

All other buttons on the IRC-6 have no function with this product.

#### Master/Slave The Master/Slave mode allows a single Gobo Zoom USB product (the master) to control the actions of one or more Gobo Zoom USB products (the slaves) without the need of a Mode DMX controller. The master product will be set to operate in either Stand-Alone mode or (wired) with the IRC-6, while the slave products will be set to operate in Slave mode. Once set and connected, the slave products will operate in unison with the master product. Configure the products as indicated below. Slave products:

- 1. Press <MENU> repeatedly until 2-CH shows on the display.
- 2. Press <ENTER> to accept.
- 3. Set the DMX address to d 1.
- 4 Connect the DMX input of the first slave product to the DMX output of the master product.
- 5. Connect the DMX input of the subsequent slave products to the DMX output of the previous slave product.
- 6. Finish setting and connecting all the slave products.

Master product:

- 1. Set the rotation direction and speed on the master product.
- 2. Make the master product the first product in the DMX daisy chain.
- Configure all the slave products before connecting the master to the daisy chain.



- Never connect a DMX controller to a DMX string configured for Master/Slave operation because the controller may interfere with the signals from the master.
- Do not connect more than 31 slaves to the master.

Master/Slave The D-Fi USB allows a single Gobo Zoom USB product (the master) to control the actions of one or more Gobo Zoom USB products (the slaves) without the need of a DMX Mode controller or DMX cables. The master (transmitter) product will be set to operate in either (D-Fi USB) Stand-Alone mode or with the IRC-6, while the slave (receiver) products will be set to operate in Slave mode. Once set and connected, the slave products will operate in unison with the master product.

Configure the products as indicated below.

#### Slave products:

- 1. Press <MENU> repeatedly until 2-CH shows on the display.
- Press <ENTER> to accept.
- 3. Set the DMX address to d 1.
- 4. Set the D-Fi USB to receive on a specific channel, 1–16.
- 5. Plug in the D-Fi USB.
- 6. Finish setting and connecting all the slave products.

#### Master product:

- 1. Press <MENU> repeatedly until 2-CH shows on the display.
- 2. Press <ENTER> to accept.
- Set the DMX address to d 1.
- 4. Set the rotation direction and speed on the master product.
- 5. Set the D-Fi USB to transmit on the D-Fi channel the slaves are receiving on.
- 6. Plug in the D-Fi USB.

All products must be set to the same DMX personality, DMX address, and D-Fi channel.

- Configure all the slave products before configuring the master to transmit.
- Never connect a DMX controller to a D-Fi channel configured for Master/Slave operation because the controller may interfere with the signals from the master.

## **5. MAINTENANCE**

## Maintenance

Product Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life and/or mechanical wear. To maintain optimum performance and minimize wear, clean your lighting products at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

- Unplug the product from power. 1.
- 2. Wait until the product is at room temperature.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on 3. the external surface/vents.
- 4. Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
- Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue. 5.
- Softly drag any dirt or grime to the outside of the transparent surface. 6.
- 7. Gently polish the transparent surfaces until they are free of haze and lint.



Always dry the transparent surfaces carefully after cleaning them.

Dimensions and	Length	Width	Height	Weight
Weight	9.4 in (238 mm)	4.9 in (124 mm)	9.6 in (244 mm)	4.4 lb (12.1 kg)
	Note: Dimensions in inches	rounded to the near	est decimal digit.	
Power	Power Supply Type	R	ange	Voltage Selection
	Switching (internal)	100 to 240	VAC, 50/60 Hz	Auto-ranging
	Parameter	120 \	/, 60 Hz	230 V, 50 Hz
	Consumption	4	1 W	39 W
	Operating Current	0	.7 A	0.3 A
	Power linking current (products)	8 A (13	products)	8 A (24 products)
	Fuse	T 1 A	A, 250 V	T 1 A, 250 V
	Power I/O	U.S./W	/orldwide	UK/Europe
	Power input connector	r IEC		IEC
	Power output connector	ector Edison		IEC
	Power Cord plug	Edisc	on (U.S.)	Local plug
Light Source	Type Power		ower	Lifespan
U	LED	25 W		50,000 hours
	Color	Color Quantity		Current
	Cool white		1	6 A
Photometrics	Parameter			
	Zoom Angle (manual)	17°	to 28°	
	Illuminance @ 2 m (17°)	3,0	75 lux	
	Illuminance @ 2 m (28°)	1,1	21 lux	
Thermal	Maximum External Tem	p. Coolin	g System	
	104 °F (40 °C)	Fan-assiste	ed Convection	
DMX	I/O Connectors	Chann	el Range	
	3-pin XLR		2	
Ordering	Product Name	Iten	n Code	UPC Number
3	Gobo Zoom USB	000	51058	781462214067

## 6. TECHNICAL SPECIFICATIONS



## Returns

To get support or return a product:

- If you are located in the U.S., contact Chauvet World Headquarters.
- If you are located in the UK or Ireland, contact Chauvet Europe Ltd.
- · If you are located in Mexico, contact Chauvet Mexico.
- If you are located in Benelux, contact Chauvet Europe BVBA.
- If you are located in any other country, DO NOT contact Chauvet. Instead, contact your local distributor. See <u>www.chauvetlighting.com</u> for distributors outside the U.S., UK, Ireland, Mexico, or Benelux.



If you are located outside the U.S., UK, Ireland, Mexico, or Benelux, contact your distributor of record and follow their instructions on how to return Chauvet products to them. Visit our website www.chauvetlighting.com for contact details. Call the corresponding Chauvet Technical Support office and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

Send the merchandise prepaid, in its original box, and with its original packing and accessories. Chauvet will not issue call tags.

Clearly label the package with the RMA number. Chauvet will refuse any product returned without an RMA number.



## Write the RMA number on a properly affixed label. DO NOT write the RMA number directly on the box.

Before sending the product, clearly write the following information on a piece of paper and place it inside the box:

- Your name
- Your address
- Your phone number
- RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be your responsibility. FedEx packing or double-boxing are recommended.



Chauvet reserves the right to use its own discretion to repair or replace returned product(s).

## Contact Us

### USA WORLD HEADQUARTERS

General Information – Chauvet Address: 5200 NW 108th Avenue Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll free: (800) 762-1084

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General Information - Chauvet Europe Ltd. Address: Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT Voice: +44 (0)1773 511115 Fax: +44 (0)1773 511110

#### MEXICO

General Information - Chauvet Mexico Address: Av. Santa Ana 30 Parque Industrial Lerma Lerma, Mexico C.P. 52000 Voice: +52 (728) 285-5000

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World Wide Web www.chauvetlighting.co.uk

#### Technical Support Email: servicio@chauvet.com.mx

World Wide Web www.chauvet.com.mx

Outside the U.S., United Kingdom, Ireland, Mexico, or Benelux contact the dealer of record. Follow their instructions to request support or to return a product. Visit our website for contact details.