COLORband[™] 3 IRC

User Manual





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1. Before You Begin

Included

What Is · COLORband™ 3 IRC

Hanging Bracket with Mounting

Hardware

Power Cord Warranty Card

Quick Reference Guide

Instructions

Unpacking Immediately upon receipt, carefully unpack the product and check the container to make sure you have received all the parts indicated above in good condition.

Claims If the container or the material inside the container (the product and included accessories) appear damaged from shipping, or show signs of mishandling, upon receipt notify the carrier immediately, not Chauvet. Failure to do so in a timely manner may invalidate your claim with the carrier. In addition, keep the container and all the packing material 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 receiving the merchandise.

Text Conventions

Convention	Meaning		
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		

Icons

s	Icon	Meaning
	\triangle	Critical installation, configuration, or operation information. Failure to comply with this information may render the product partially or completely inoperative, cause damage to the product, or cause harm to the user.
	\mathbf{i}	Important installation or configuration information. Failure to comply with this information may prevent the product from functioning correctly.
•		Useful information.

Disclaimer The information and specifications contained in this document are subject to change without notice. Chauvet assumes no responsibility or liability for any errors or omissions that may appear in this manual. Chauvet reserves the right to update the existing document or to create a new document to correct any errors or omissions.

You can download the latest version of this document from www.chauvetlighting.com.

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Product at a **Glance**

Use on Dimmer	×	Auto Programs	Р
Outdoor Use	×	Auto-ranging Power Supply	Ρ
Sound-Activated	Р	Replaceable Fuse	Р
DMX	Р	User Serviceable	×
Master/Slave	Р		

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.
- Avoid direct eye exposure to the light source while the product is on.



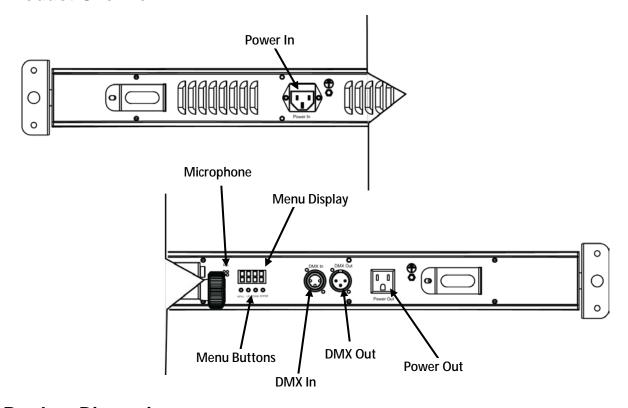
- Make sure the power cord is not crimped or damaged.
- Never disconnect the product from power cord by pulling or tugging on the cord.
- If mounting the product overhead, always secure to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the product when operating.
- Do not touch the product's housing when operating because it may be very hot.
- 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).
- 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 or the handles.
- 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.



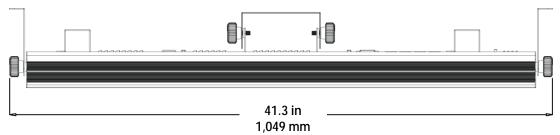
Keep this User Manual for future consultation. If you sell the product to another user, be sure that they also receive this document.

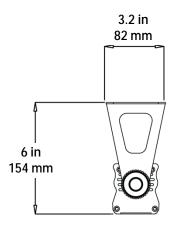
2. Introduction

Product Overview



Product Dimensions





3. SETUP

AC Power The COLORband™ 3 IRC has an auto-ranging power supply and it can work with an input voltage range of 100-240 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.



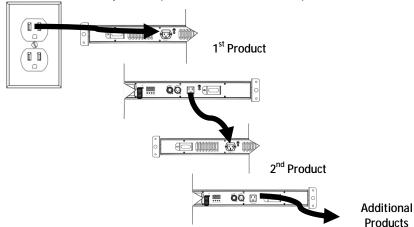
To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.



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.

Power Linking

The product provides a power linking option via the power in and out located on the back of the unit. You can daisy chain up to 12 units on 120 V or up to 23 units on 230 V.

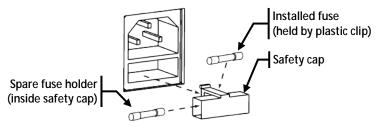


Power Linking Diagram



The power linking information above 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.

- Fuse 1. Wedge the tip of a flat-head screwdriver into the slot of the fuse holder. Pry the fuse holder out of the housing.
- Replacement ².
 - Remove the blown fuse from the holder and replace with a fuse of the exact same type and rating.
 - Insert the fuse holder back in place and reconnect power.

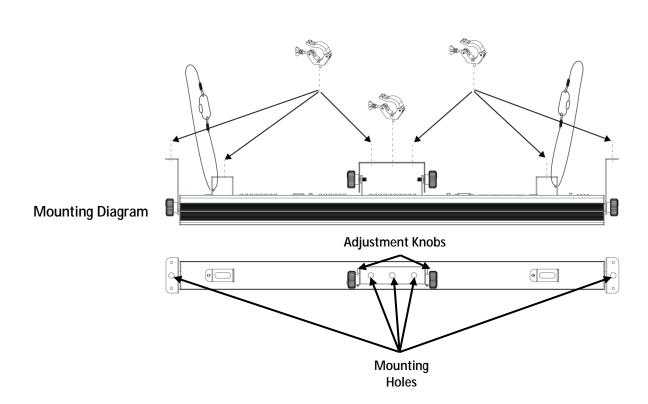


Mounting Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes.

Orientation The COLORband™ 3 IRC 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. Please see the Technical Specifications section of this manual 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, you should use a mounting clamp of appropriate weight capacity. The bracket has a 13 mm hole, which is appropriate for this purpose.
- When power linking multiple products, you must always consider the length of the power linking cable and mount the products close enough for the cable to reach.



4. OPERATION

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

Button	Function		
<menu> Press to find an operation mode or to back out of the current men option</menu>			
VP> 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 Function	Programming Levels		Description
	3-CH	d1–d512	Sets 3-channel DMX personality and DMX address
DMX	6-CH		Sets 6-channel DMX personality and DMX address
Personalities and Starting	8-CH		Sets 8-channel DMX personality and DMX address
Address	9-CH		Sets 9-channel DMX personality and DMX address
	14CH		Sets 14-channel DMX personality and DMX address
Static Colors	C	C 1-C 7	Selects a preset color
Auto Programs	P	P 1-P 14	Selects auto program
Auto Program Speed	S	S 1-S100	Selects auto program speed
Sound-Active Mode	Sı	nd	Selects Sound-Active mode
Sound Sensitivity	SenS	u 0–u100	Sets the sensitivity of the microphone
	U	r 0–r255	Red (0-100%)
Custom Color Mixing		g 0–g255	Green (0-100%)
		b -b255	Blue (0-100%)
		OFF	Dimmer speed off
Dimming	diM	diM1	Dimmer speed fast
Profiles	Ulivi	diM2	Dimmer speed medium
		diM3	Dimmer speed slow
Infrared	SET	ON	Turns infrared on or off
IIIIIaieu	illiared SET	OFF	Turns initared on or off

DMX Linking The

 $\mathsf{COLOR}\mathsf{band}^{\mathsf{TM}}$ **IRC** 3 works with DMX controllers. For more information about DMX, download the DMX **CHAUVET®** Chauvet Primer, from the website: http://www.chauvetlighting.com/downloads/DMX_Primer_rev05_WO.pdf.

(DMX)

Configuration Set the product in DMX mode to control with a DMX controller.

- Connect the product to a suitable power outlet.
- Turn the product on.
- Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.

Personalities and Starting Address

DMX The COLORband™ 3 IRC uses up to 14 DMX channels in its 14-channel DMX mode, which defines the highest configurable address to 499.

When selecting a starting DMX address, always consider the number of DMX channels the selected 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.

If you are not familiar with the DMX protocol, you may refer to the DMX Primer at www.chauvetlighting.com.

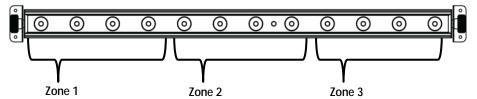
To select the DMX personality, do the following:

- Press <MENU> repeatedly until 3-CH, 6-CH, 8-CH, 9-CH, or 14CH shows on the display.
- Press **<ENTER>** to choose your DMX personality when it appears on the display. 2.

To then choose your starting address:

- 1. The display should show d 1 once you've selected your DMX personality using the steps above.
- Use **<UP>** or **<DOWN>** to select the starting address.
- 3. Press <ENTER>.

ZONES FOR DMX CONTROL



DMX Channel Assignments and Values

14CH

4	Channel	Function	Value	Setting
-	1	Red, Zone 1	000 6 255	0–100%
_	2	Green, Zone 1	000 6 255	0–100%
-	3	Blue, Zone 1	000 ර 255	0–100%
	4	Red, Zone 2	000 ó 255	0–100%
	5	Green, Zone 2	000 ó 255	0–100%
	6	Blue, Zone 2	000 ó 255	0–100%
	7	Red, Zone 3	000 ó 255	0–100%
_	8	Green, Zone 3	000 ර 255	0–100%
	9	Blue, Zone 3	000 ó 255	0–100%
	10	Color Macros	000 🝎 015	No function
_	10	Color Macros	016 ර 255	Color Macros
_	11	RGB/Auto Program Speed (when Ch12 is at 032–226) Sound Sensitivity (when Ch12 is at 227–255)	000 6 255	Speed (slow to fast)
		Strobe	000 6 015	No function
_		(when Ch1-10 is above 000)	016 ර 255	Strobe (slow to fast)
			000 🍎 031	No function
			032 6 063	Pulse effect 0–100%
			064 6 095	Pulse effect 100–0%
			096 ó 114	Pulse effect 100–0–100%
			115 ó 122	Auto Program 1
			123 6 130	Auto Program 2
			131 ó 138	Auto Program 3
			139 ó 146	Auto Program 4
			147 ó 154	Auto Program 5
	12	RGB/Auto Mode	155 ó 162	Auto Program 6
			163 ó 170	Auto Program 7
			171 ó 178	Auto Program 8
			179 ó 186	Auto Program 9
			187 ó 194	Auto Program 10
			195 ර 202	Auto Program 11
			203 6 210	Auto Program 12
			211 ó 218	Auto Program 13
			219 ó 226	Auto Program 14
_			227 6 255	Sound Active Program
_	13	Dimmer	000 6 255	0–100%
			000 6 051	Preset dimmer speed from display menu
			052 ó 101	Dimmer speed mode off
	14	Dimming Profiles	102 ó 152	Dimmer speed mode1 (fast speed)
			153 ó 203	Dimmer speed mode2 (middle speed)
			204 ó 255	Dimmer speed mode3 (slow speed)

9-CH

4	Channel	Function	Value	Setting	Zone
-	1	Red	000 ර 255	0–100%	
-	2	Green	000 ර 255	0–100%	1
-	3	Blue	000 ර 255	0–100%	
	4	Red	000 á 255	0–100%	
	5	Green	000 ó 255	0–100%	2
	6	Blue	000 ó 255	0–100%	
_	7	Red	000 ර 255	0–100%	
	8	Green	000 ó 255	0–100%	3
	9	Blue	000 ර 255	0–100%	

8-CH

Channel	Function	Value	Setting
1	Red, All Zones	000 ර 255	0–100%
2	Green, All Zones	000 ó 255	0–100%
3	Blue, All Zones	000 ර 255	0–100%
4	Color Macros	000 ර 015	No function
4	COIOI Macios	016 ර 255	Color Macros
5	RGB/ Auto Program Speed (When Ch6 is at 032–226) Sound Sensitivity (When CH6 is at 227–255)	000 6 255	Speed (slow to fast)
		000 6 031	No function
		032 6 063	Pulse effect 0–100%
		064 6 095	Pulse effect 100–0%
		096 6 114	Pulse effect 100–0–100%
		115 ó 122	Auto Program 1
	RGB/ Auto Mode	123 ó 130	Auto Program 2
		131 6 138	Auto Program 3
		139 ó 146	Auto Program 4
		147 ó 154	Auto Program 5
6		155 ó 162	Auto Program 6
		163 ó 170	Auto Program 7
		171 ó 178	Auto Program 8
		179 ó 186	Auto Program 9
		187 ó 194	Auto Program 10
		195 ó 202	Auto Program 11
		203 6 210	Auto Program 12
		211 ó 218	Auto Program 13
		219 ó 226	Auto Program 14
		227 ó 255	Sound Active Program
7	Dimmer	000 ó 255	0–100%
		000 ó 051	Preset dimmer speed from display menu
		052 ó 101	Dimmer speed mode off
8	Dimmer Profiles	102 ó 152	Dimmer speed mode1 (fast speed)
	}	153 6 203	Dimmer speed mode2 (middle speed)
		204 ó 255	Dimmer speed mode3 (slow speed)

6-CH

4	Channel	Function	Value	Setting
	1	Red	000 ර 255	0–100%
	2	Green	000 ර 255	0–100%
	3	Blue	000 ර 255	0–100%
	4	Dimmer	000 ර 255	0–100%
	5	Strobe	000 ර 015	No function
			016 ර 255	Strobe (slow to fast)
			000 ර 051	Preset dimmer speed from display menu
		052 ó 101	Dimmer speed mode off	
	6	Dimming Profiles	102 ó 152	Dimmer speed mode1 (fast speed)
			153 ó 203	Dimmer speed mode2 (middle speed)
			204 ó 255	Dimmer speed mode3 (slow speed)

3-CH

Н	Channel	Function	Value	Setting
	1	Red	000 ó 255	0–100%
	2	Green	000 ර 255	0–100%
	3	Blue	000 ó 255	0–100%

(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.
- Turn the product on.



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.

Static Color Mode To enable the Static Color Mode, do the following:

- 1. Press <MENU> repeatedly until C-- shows on the display.
- Press < ENTER >.
- 3. Use **<UP>** or **<DOWN>** to choose a color **(C1-C7)**.
- 4. Press **<ENTER>**.

Auto Program To enable the Auto Program Mode, follow the instructions below:

- Mode 1. Press <MENU> repeatedly until P-- shows on the display.
 - 2. Press <ENTER>.
 - 3. Use **<UP>** or **<DOWN>** to choose your auto program (**P1-P14**).
 - 4. Press <ENTER>.

You can adjust the speed of the automatic program as well.

- 1. Press <MENU> repeatedly until S-- shows on the display.
- 2. Press <ENTER>.
- 3. Use **<UP>** or **<DOWN>** to adjust the duration of each step of the automatic program from S001 (slow) to S100 (fast).
- 4. Press <ENTER>.

Custom Static To enable the Custom Static Color Mode, follow the instructions below:

- Color Mode 1. Press <MENU> repeatedly until U-- shows on the display.
 - 2. Press **<ENTER>** to choose between colors (**r--**, **g--**, **b--**).
 - 3. Press **<UP>** or **<DOWN>** to choose the intensity of the color (**r000-100**).
 - 4. Repeat the steps to mix additional colors to create the color you need.
 - Press <ENTER>.

(Infrared Remote Control)

IRC-6 The is COLORband™ 3 IRC compatible with the IRC-6 from Chauvet.

IRC-6 Operation Make sure to point the IRC-6 directly at the receiver on the product



Automatic Mode

Automatic mode will enable you to run the automatic programs on the product.

To turn on Automatic mode:

- Press <AUTO> on the IRC-6.
- Press <+> or <-> to switch between preprogrammed auto programs.

To adjust the speed of the automatic program:

- 1. Press **<SPEED>** on the IRC-6.
- 2. Press <+> or <-> to either increase or decrease the speed of the program.

Sound-Active Mode

Sound-Active mode will enable the product to respond to the music.

To turn on Sound-Active mode:

Press <SOUND> on the IRC-6.

To adjust sound sensitivity in Sound-Active mode:

- Press **<SENSITIVITY>** on the IRC-6.
- Press <+> or <-> to either increase or decrease sound sensitivity.

Preprogrammed Colors

To choose a specific color with the IRC-6:

Press any number between <0> and <9> to choose your color.

Master/Slave The Master/Slave mode allows a single COLORband™ 3 IRC unit (the "master") to Mode control the actions of one or more COLORband™ 3 IRC units (the "slaves") without the need of a DMX controller. The master unit will be set to operate in a standalone mode while the slave units will be set to operate in Slave Mode. Once set and connected, the slave units will operate in unison with the master unit.

Configure the units as indicated below.

Slave units:

- 1. Set the DMX address to 001.
- 2. Connect the DMX input of the first slave unit to the DMX output of the master unit.
- Connect the DMX input of the subsequent slave units to the DMX output of the previous slave unit.
- 4. Finish setting and connecting all the slave units.

Master unit:

- 1. Set the master unit to operate in a standalone mode.
- 2. Make the master unit the first unit in the daisy chain.
- Configure all the slave units before connecting the master unit to the daisy



- 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 unit.
- Do not connect more than 31 slave units to the master unit.

5. TECHNICAL INFORMATION

Maintenance

Product Dust build up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life. To maintain optimum performance and minimize wear, you should 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:

- 1. Unplug the product from power.
- 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 the external surface/vents.
- 4. Clean all external optics/lenses and glass/transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
- 5. Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
- 6. Softly drag any dirt or grime to the outside of the external optics or glass/transparent surface.
- Gently polish the external optics and glass/transparent surfaces until they are free of haze and lint.



Always dry the external optics and glass/transparent surfaces carefully after cleaning them.

6. TECHNICAL SPECIFICATIONS

imensions and	Length	Width	Height	Weight
Weight	41.3 in (1,049 mm)	3.2 in (82 mm)	6 in (154 mm)	8.6 lb (3.9 kg)
	Note: Dimensions in inches rounded to the nearest decimal digit.			
Power	Power Supply Type	R	ange	Voltage Selection
	Switching (internal)	100–240	V, 50/60 Hz	Auto-ranging
	Parameter	120	V, 60 Hz	230 V, 50 Hz
	Consumption	4	15 W	44 W
	Operating	C	0.6 A	0.3 A
	Power linking current (units) 8 A (12 units)	8 A (23 units)
	Fuse	T 1 /	A, 250 V	T 1 A, 250 V
	Power I/O US/Worldwide		UK/Europe	
	Power input connector	Pro	prietary	Proprietary
	Power output connector	Pro	prietary	Proprietary
	Power Cord plug	Edis	on (US)	Local plug
Light Source	Туре	P	ower	Lifespan
	LED	;	3 W	50,000 hours
	Color	Quantity		Current
	Tri-color RGB		12	1 A
Photo Optic	Parameter			
	Illuminance @ 2 m	2,969 lux		
	Beam angle		270	
	Field angle		45°	
	Strobe rate	0–	20 Hz	
Thermal	Maximum Ambient Temp	•		Cooling System
	104 °F (40 °C)			Convection
DMX	I/O Connectors	Conne	ctor Type	Channel Range
	3-pin XLR	Sc	ockets	3, 6, 8, 9, 14
Ordering	Product Name	Iten	n Code	UPC Number
	COLORband™ 3 IRC	030	030869	781462212179



In case you need to return a product or request support, follow the procedure below:

- If you live in the U.S., contact Chauvet World Headquarters (see Contact Us).
- If you live in the UK or Ireland, contact Chauvet Europe Ltd. (see Contact Us).
- If you live in Mexico, contact Chauvet Mexico. (see Contact Us).
- If you live in Benelux, contact Chauvet Europe BVBA. (see Contact Us).
- If you live in any other country, DO NOT contact Chauvet. Instead, contact your distributor of record. See www.chauvetlighting.com for distributors outside the U.S., United Kingdom, Ireland, Mexico, or Benelux.



If you live outside the U.S., United Kingdom, Ireland, Mexico, or Benelux contact your distributor of record and follow their instructions on how to return CHAUVET® products to them. Visit our website for contact details.

Returns Call the corresponding Chauvet Tech 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.

> You must 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
- The 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. As a suggestion, proper UPS packing or doubleboxing is always a safe method to use.



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

Contact WORLD HEADQUARTERS - Chauvet

Us General Information

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(954) 756-8015 Fax:

Voice: (954) 577-4455 Email: tech@chauvetlighting.com Fax: (954) 929-5560

Toll free: (800) 762-1084 World Wide Web www.chauvetlighting.com

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Chauvet Europe - Chauvet Europe BVBA

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9770 Kruishoutem

Belgium World Wide Web www.chauvetlighting.eu Voice: +32 9 388 93 97

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.