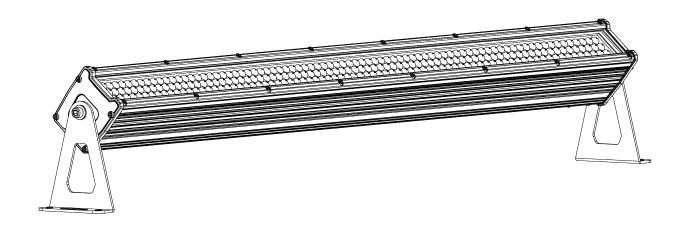
COLOR rail[™] IRC IP

User Manual



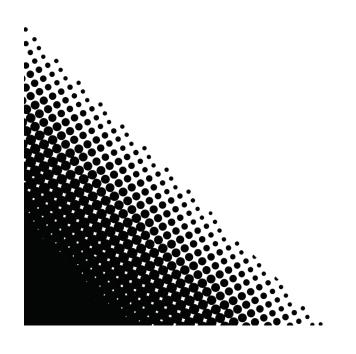




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1. Before You Begin

- What Is COLORrail™ IRC IP
- Included
- DMX In Adapter
- **DMX Out Adapter**

- Power Cord
- Warranty Card
- Quick Reference Guide

Instructions

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

Claims If the box or the contents (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
	<u>^</u>	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.
	\bigcirc	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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Author	Date	Editor	Date
A. Diaz	6/19/12	S. Diaz	12/17/12

Product at a **Glance**

Use on Dimmer	0	Auto Programs	✓
Outdoor Use	✓	Auto-ranging Power Supply	✓
Sound Activated	0	Replaceable Fuse	0
DMX	✓	User Serviceable	0
Master/Slave	✓	Duty Cycle	0

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 GFI (ground fault interrupter) 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.

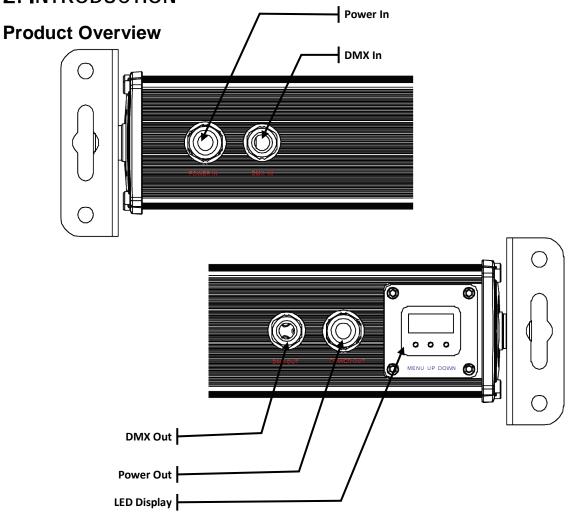


- Make sure the power cord is not crimped or damaged.
- Never disconnect the product from power cord by pulling or tugging on the cord.
- If mounting the product overhead, always secure to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the product when 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 or outdoor use (IP65). Do not submerge the product.
- Always install the product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Never connect the product to a dimmer.
- 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.

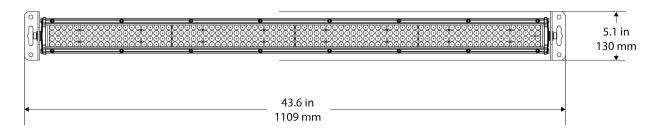


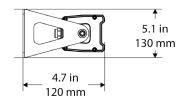
Keep this User Manual for future consultation. If you sell the product to another user, be sure that they also receive this document.

2. Introduction



Product Dimensions





3. SETUP

AC Power The COLORrail™ IRC IP 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 GFI protected circuit (circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.



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 pigtails located on the back of the

You can daisy chain up to 15 units on 120 VAC or up to 28 units on 230 VAC.

If you choose not to use the power linking feature, be sure to use the included screw on cap to prevent any water from getting into the power cords.



The power linking diagram shown 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.

Mounting

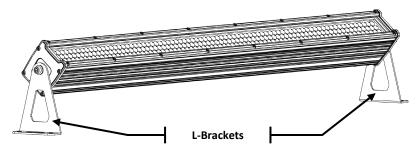
Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes.

Orientation The COLORrail™ IRC IP 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 or surface 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.
- 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

Operation panel.

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

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

Configuration (DMX)

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.

DMX **Personalities** and Starting **Address**

The COLORrail™ IRC IP has six DMX personalities, a 2-channel mode for basic control and a 26-channel mode with more advanced control over the lights.

The COLORrail™ IRC IP uses up to 26 DMX channels in its 26-channel DMX mode, which defines the highest configurable address to 487.

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:

- 1. Press **<MENU>** repeatedly until **__c** shows on the display.
- 2. Press <ENTER>.
- Press <MENU> repeatedly until 2-c, 3-c, 4-c, 7-c, 14c or 26c shows on the display
- Press **<ENTER>** to choose your DMX personality when it appears on the display.

To then choose your starting address:

- 1. Press **<MENU>** repeatedly until **001** shows on the display.
- 2. Press <ENTER>.
- 3. Use **<UP>** or **<DOWN>** to select the starting address.
- 5. Press **<ENTER>**.

Menu Map

Auto Run n		
F 00-99 Strobe speed (slow to fast)		
001 001-512 Sets DMX address 2-c 3-c and 4-c		
DMX Channels and 4-c		
DMX Channels 3-c 4-c		
and 4-c		
and 4-c		
Coto DMV managed the	Sets DMX personality	
Personalities — C 7-c Sets DIVIX personality		
14c		
26c		
Slave Mode SLA Sets Slave functionality		
IR Controller ir- IRC functionality		
1r Red		
2.r9 Yellow		
39 Green		
4.9b Cyan		
P.01 5b Blue		
6.rb Magenta		
7.FL White		
8.OF Off		
F.01-F.99 Strobe speed (slow to fast)		
P.02- P.20 S.FL Run speed (slow to fast)		
F.20 F.00-F.99 Strobe speed (slow to fast)		
S.01-S.99, S.FL Run speed (slow to fast)		
F.00-F.99 Strobe speed (slow to fast)		
Auto Programs P 1r Red		
1.r9 Yellow		
19 Green		
1.9b Cyan Foreground	Color	
1b Blue	00101	
1.rb Magenta		
P.21- P.22 1.FL White		
1.FF Off		
2r Red		
2.r9 Yellow		
29 Green		
2.9b Cyan Background	Color	
2b Blue	Background Color	
2.rb Magenta		
2.FL White		
2.FF Off		

DMX Channel Assignments and Values

Channel	Function	Value	Setting
	Color Macros	000 ⇔ 008	No function
		009 ⇔ 017	Red
		018 ⇔ 026	Yellow
1		027 ⇔ 035	Green
		036 ⇔ 044	Cyan
		045 ⇔ 053	Blue
		054 ⇔ 062	Magenta
		063 ⇔ 071	White
		072 ⇔ 242	Auto Programs
		243 ⇔ 255	Reserved
2	Auto Program Speed	000 ⇔ 255	Slow to fast (when Ch. 1 is 072-255)
	·		1 Color Macros 009 ⇔ 017

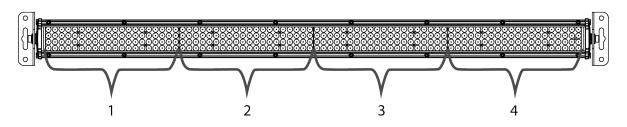
3-CH	Channel	Function	Value	Setting
	1	Red	000 ⇔ 255	0–100%
	2	Green	000 ⇔ 255	0–100%
	3	Blue	000 ⇔ 255	0–100%

4-CH	Channel	Function	Value	Setting
	1	Master Dimmer	000 ⇔ 255	0–100%
	2	Red	000 ⇔ 255	0–100%
	3	Green	000 ⇔ 255	0–100%
	4	Blue	000 ⇔ 255	0–100%

7-CH	Channel	Function	Value	Setting
	1	Master Dimmer	000 ⇔ 255	0–100%
	2	Red	000 ⇔ 255	0–100%
	3	Green	000 ⇔ 255	0–100%
	4	Blue	000 ⇔ 255	0–100%
			000 ⇔ 008	No function
			009 ⇔ 017	Red
			018 😂 026	Yellow
			027 ⇔ 035	Green
	5	Color Macros	036 ⇔ 044	Cyan
			045 ⇔ 053	Blue
			054 ⇔ 062	Magenta
			063 ⇔ 071	White
			072 ⇔ 255	Auto Programs
	6	Auto Program Speed	000 255	Program speed slow to fast (when Ch. 5 is 072–255)
	7	Strobe	000 ⇔ 255	Slow to fast

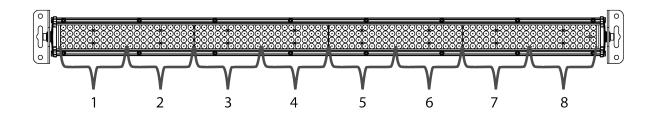
14-CH

Channel	Function	Value	Setting	
1	Master Dimmer	000 ⇔ 255	0–100%	
2	Red	000 ⇔ 255	0–100%	
3	Green	000 ⇔ 255	0–100%	Section 1
4	Blue	000 ⇔ 255	0–100%	
5	Red	000 ⇔ 255	0–100%	
6	Green	000 ⇔ 255	0–100%	Section 2
7	Blue	000 ⇔ 255	0–100%	
8	Red	000 ⇔ 255	0–100%	
9	Green	000 ⇔ 255	0–100%	Section 3
10	Blue	000 ⇔ 255	0–100%	
11	Red	000 ⇔ 255	0–100%	
12	Green	000 ⇔ 255	0–100%	Section 4
13	Blue	000 ⇔ 255	0–100%	
14	Strobe	000 ⇔ 255	Slow to fast	



26-CH

Channel	Function	Value	Setting	
1	Master Dimmer	000 ⇔ 255	0–100%	
2	Red	000 ⇔ 255	0–100%	
3	Green	000 ⇔ 255	0–100%	Section 1
4	Blue	000 ⇔ 255	0–100%	
5	Red	000 ⇔ 255	0-100%	
6	Green	000 ⇔ 255	0–100%	Section 2
7	Blue	000 ⇔ 255	0–100%	
8	Red	000 🜣 255	0–100%	
9	Green	000 ⇔ 255	0–100%	Section 3
10	Blue	000 ⇔ 255	0–100%	
11	Red	000 ⇔ 255	0–100%	
12	Green	000 ⇔ 255	0–100%	Section 4
13	Blue	000 ⇔ 255	0–100%	
14	Red	000 ⇔ 255	0–100%	
15	Green	000 ⇔ 255	0–100%	Section 5
16	Blue	000 ⇔ 255	0–100%	
17	Red	000 ⇔ 255	0–100%	
18	Green	000 ⇔ 255	0–100%	Section 6
19	Blue	000 ⇔ 255	0–100%	
20	Red	000 ⇔ 255	0–100%	
21	Green	000 ⇔ 255	0–100%	Section 7
22	Blue	000 ⇔ 255	0–100%	
23	Red	000 ⇔ 255	0–100%	
24	Green	000 ⇔ 255	0–100%	Section 8
25	Blue	000 ⇔ 255	0–100%	
26	Strobe	000 ⇔ 255	Slow to fast	



(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.

Auto Run Mode To enable the Automatic Mode, follow the instructions below:

- Press <MENU> repeatedly until AUR shows on the display.
- 2. Press <ENTER>.
- 3. Use **<UP>** or **<DOWN>** to choose between programming levels.
 - a. To adjust the number of loops in the program, press **<MENU>** until **n** shows, press <ENTER>, then <UP> or <DOWN> to adjust the loop numbers (01-99, FL).
 - To adjust the run speed in the program, press **<MENU>** until **S.** shows, press <ENTER>, then <UP> or <DOWN> to adjust the run speed from slow to fast (01-
 - To adjust the strobe speed in the program, press <MENU> until F.__ shows, press <ENTER>, then <UP> or <DOWN> to adjust the strobe speed from slow to fast (01-99, FL).

Auto Programs To enable the Automatic Mode, follow the instructions below:

- 1. Press <MENU> repeatedly until P.__ shows on the display.
- Press < ENTER>.
- 3. Use **<UP>** or **<DOWN>** to choose between auto programs (**P.01-P.22**).
- 4. Press **<ENTER>**.

Mode

Master/Slave The Master/Slave mode allows a single COLORrail™ IRC IP unit (the "master") to control the actions of one or more COLORrail™ IRC IP units (the "slaves") without the need of a DMX controller. The master unit will be set to operate in any 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. Press <MENU> repeatedly until SLA shows on the display.
- 2. Press <ENTER> to accept.
- 3. Set the DMX address to 001.
- 4. 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.
- 6. Finish setting and connecting all the slave units.

Master unit:

- 1. Set the master unit to operate in any 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 chain.



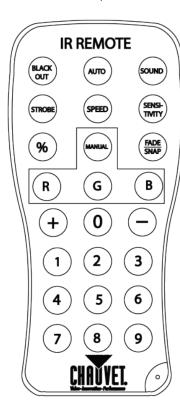
- Never connect a DMX controller to a DMX string configured for Master/Slave operation because the controller may interfere with the signals from the master unit.
- Do not connect more than 31 slave units to the master unit.

Infrared Control The COLORrail™ IRC IP is fully compatible with the Infrared Remote Control from CHAUVET® (sold separately). To enable the IRC, follow the instructions below:

- 1. Press **<MENU>** repeatedly until **ir-** shows on the display.
- 2. Press <ENTER>.

IRC (Infrared Remote Control) Operation

Note: Make sure to point the IRC 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:

- 1. Press AUTO on the IRC.
- 2. Press + or to choose between the different auto programs.

To adjust the speed of the automatic program:

- 1. Press SPEED on the IRC.
- 2. Press %.
- 3. Press + or to either increase or decrease the speed of the program.

Sound Active Mode (if available)

Sound Active Mode will enable the product to respond to the music.

To turn on Sound Active mode:

1. Press SOUND on the IRC.

To adjust sound sensitivity in Sound Active mode:

- 1. Press SENSITIVITY on the IRC.
- 2. Press %.
- Press + or to either increase or decrease sound sensitivity.

Manual Color Control

To choose a specific color with the IRC:

- 1. Press MANUAL on the IRC.
- 2. Press any number between 0-9 to choose your color.

To manually control the RGB percentage:

- 1. Press MANUAL on the IRC.
- 2. Press R, G, or B to choose your color.
- 3. Press + or to increase or decrease the percentage of each color.

Miscellaneous Operation

To adjust the strobe rate of the program:

- 1. Press STROBE on the IRC.
- 2. Press + or to increase or decrease the strobe rate.
- 3. Press STROBE again to turn off the strobe.

To change the switching effect of the program:

Press FADE/SNAP on the IRC.

Fade will slowly switch the effect. Snap will rapidly switch the effect.

To black out the lights:

Press BLACK OUT on the IRC.

This will turn off all the lights 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.

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:

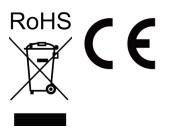
- Unplug the product from power.
- Wait until the product is cold.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
- Clean all external optics and glass/transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
- Apply the solution directly to a soft, lint free cotton cloth or a lens cleaning tissue.
- 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

Dimensions and	Length	Width	Height	Weight		
Weight	4.7 in (120 mm)	43.6 in (1109 mm)	5.1 in (130 mm)	12.4 lbs (5.6 kg)		
	Note: Dimensions in inches rounded to the nearest decimal digit.					
Power	Power Supply Type	Pa	nge	Voltage Selection		
rowei	Switching (internal)		/, 50/60 Hz	Auto-ranging		
			·			
	Parameter		, 60 Hz	230 V, 50 Hz		
	Consumption) W	65 W		
	Operating	_	5 A	0.3 A		
	Power linking current (un	its) 8 A (1	5 units)	8 A (28 units)		
	Fuse	Inte	ernal	Internal		
	Power I/O	US/Wo	rldwide	UK/Europe		
	Power input connector	r Propi	rietary	Proprietary		
	Power output connector	or Propi	rietary	Proprietary		
	Power Cord plug	Ediso	n (US)	Local plug		
Light Source	Туре	Life	span			
	LED	50,000) hours			
	Color	Qua	intity			
	Red	1:	28			
	Green	ę	96			
	Blue	Ş	96			
Photo Optic	Parameter					
	Illuminance @ 2 m	418	3 lux			
	Beam angle	1	40			
	Field angle	2	2°			
Thermal	Maximum External Ten	np. Minimum S	tartup Temp.	Cooling System		
	113° F (45° C)	-4° F (-20° C)	Convection		
DMX	I/O Connectors	Connec	tor Type	Channel Range		
	3-pin XLR	Propi	rietary	2, 3, 4, 7, 14, 26		
Ordering	Product Name	Item	Code	Item Number		
-	COLORrail™ IRC IP	0303	30121	COLORRAILIRCIP		



Procedure *

Contact 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 below).
- If you live in the UK or Ireland, contact CHAUVET® Europe Ltd. (see below).
- 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, or Ireland.



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

Returning **Products to CHAUVET®**

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).

CHAUVET® World Headquarters Contact General Information Information

CHAUVET®

Address: 5200 NW 108th Avenue Sunrise, FL 33351 Voice: (954) 929-1115 Fax: (954) 929-5560 Toll free: (800) 762-1084

Technical Support

(954) 929-1115 (Press 4) Voice: Fax: (954) 756-8015 Fmail: tech@chauvetlighting.com

World Wide Web

www.chauvetlighting.com

United Kingdom & Ireland

CHAUVET® Europe Ltd.

General Information

Address Unit 1C Brookhill Road Industrial Estate Pinxton, Nottingham, UK NG16 6NT

Voice: +44 (0)1773 511115 +44 (0)1773 511110 Fax:

Technical Support

Email: uktech@chauvetlighting.com

World Wide Web

www.chauvetlighting.co.uk