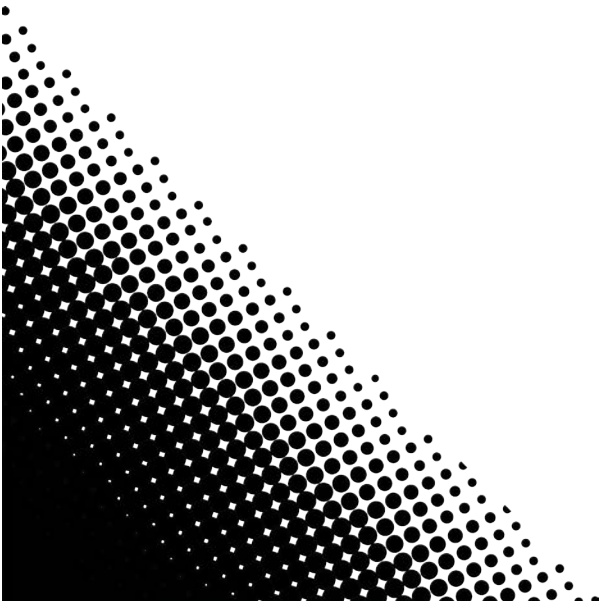
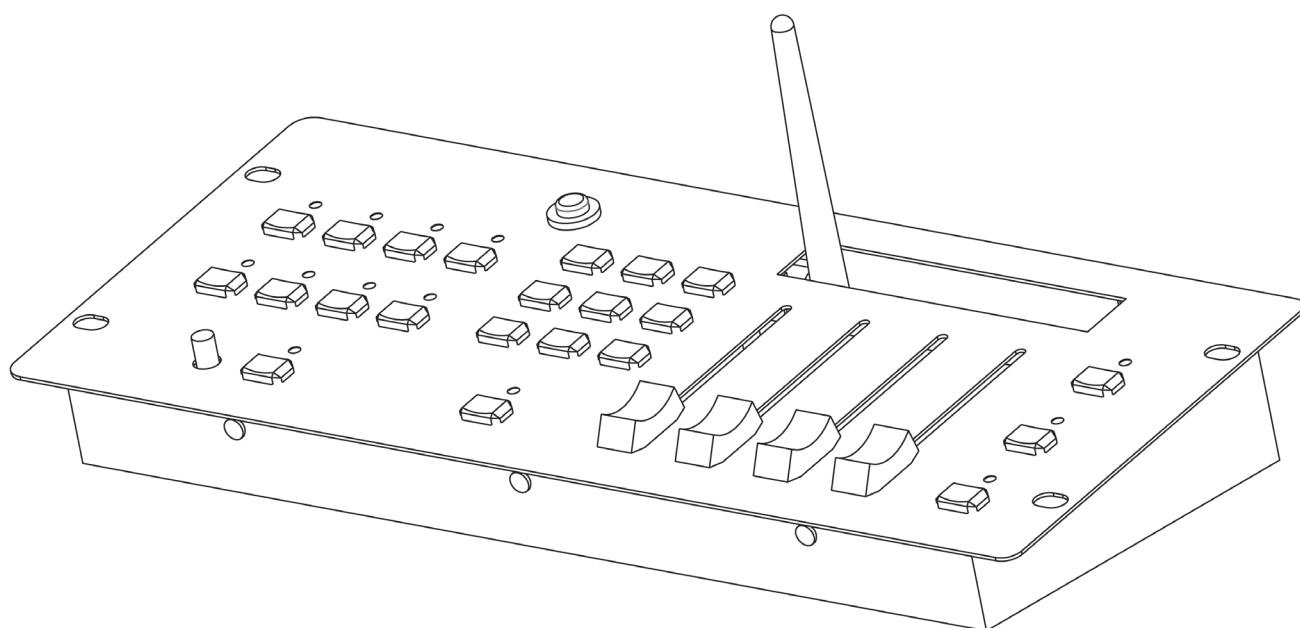


obey™ 4

D-Fi 2.4

User Manual



CHAUVET®
Value • Innovation • Performance
It's **Green** Thinking.™

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1. BEFORE YOU BEGIN

What Is Included

- Obey™ 4 D-Fi 2.4GHz
- Power Supply
- Warranty Card
- Quick Reference Guide

Unpacking Instructions

Carefully unpack the product immediately and check the container to make sure all the parts are in the package and are in good 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 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>	A key to be pressed
ON	A value to be entered or selected

Symbols

Symbol	Meaning
	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.
	Important installation or configuration information. The product may not function correctly if this information is not used.
	Useful information.

Disclaimer

The information and specifications contained in this User Manual are subject to change without notice. CHAUVET® assumes no responsibility or liability for any errors or omissions, and reserves the right to revise or recreate this manual at any time. Download the latest version from www.chauvetlighting.com.

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Author	Date
S. Diaz	10/15/12

Safety Notes

These notes include important information about the mounting, usage, and maintenance of this product; read before using the product.



- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect the product from the power source before cleaning.
- Make sure the power cord is not crimped or damaged.
- Never disconnect the product from power 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.



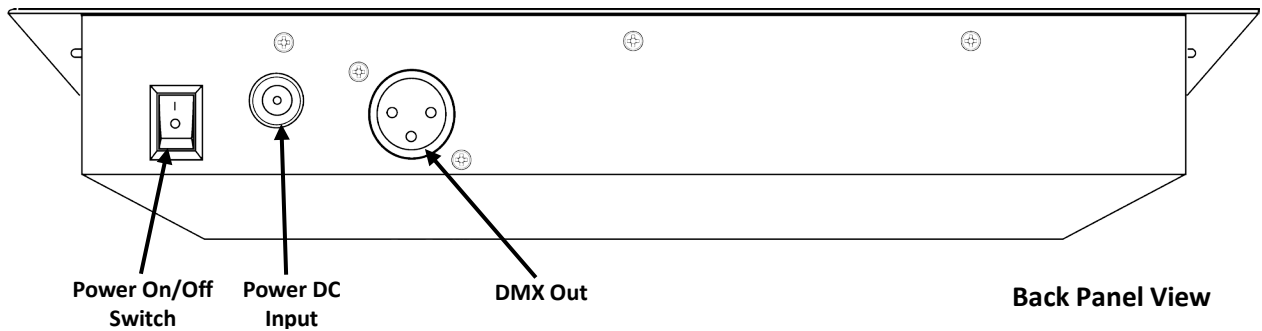
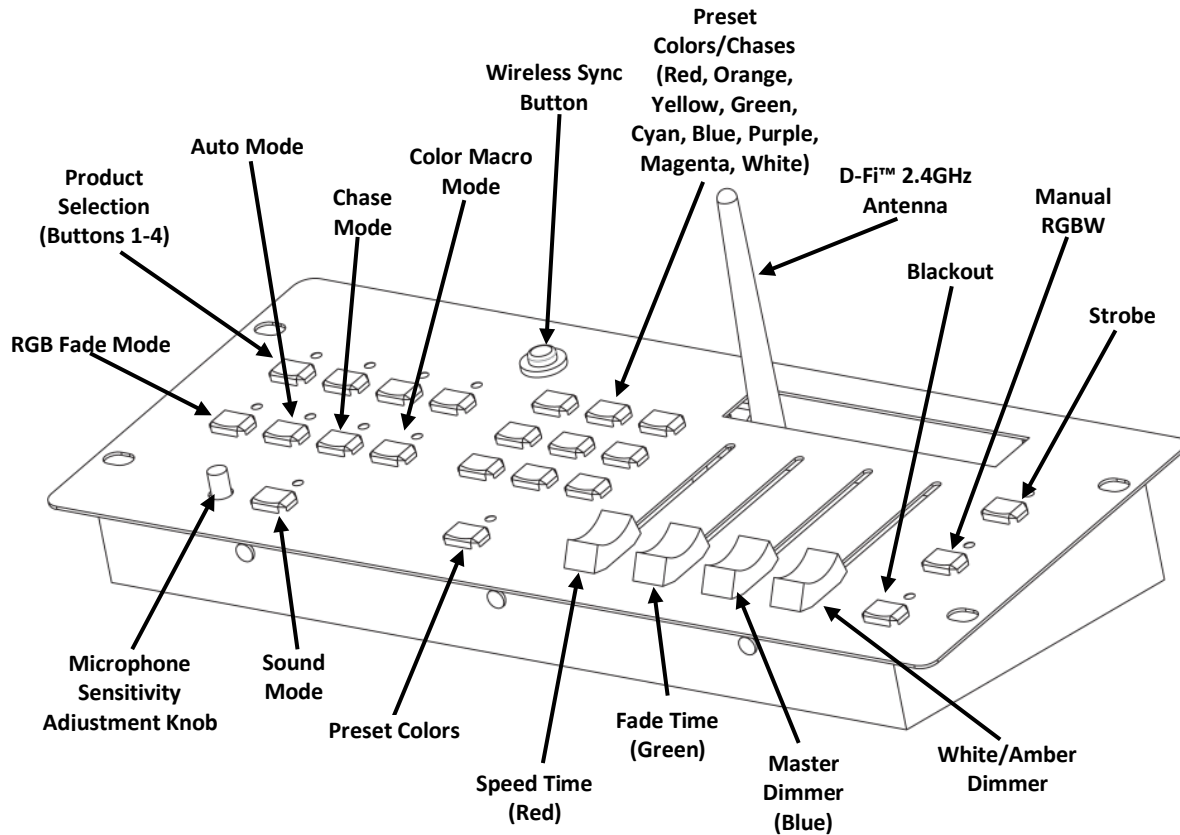
- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- The product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose the product to rain or moisture.
- Always install 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 carry the product from the power cord.
- 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. Contact the nearest authorized technical assistance center.
- This product is not intended for permanent installation.



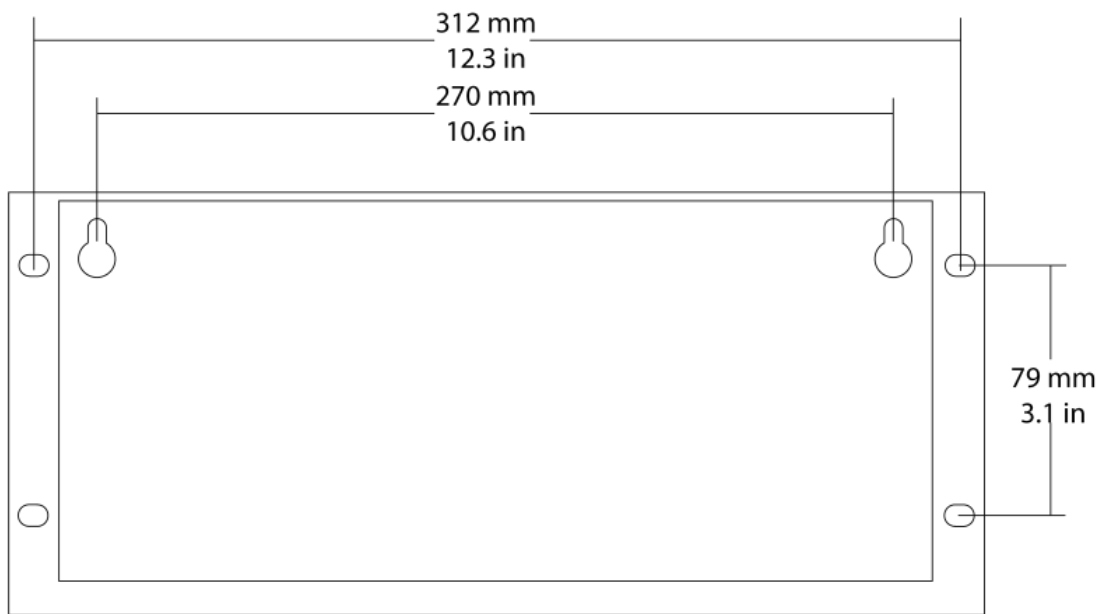
- Keep this User Manual for future use. If you sell the product to another user, be sure to give this document to the next owner.

2. INTRODUCTION

Overview



Dimensions



3. SETUP

AC Power The Obey™ 4 D-Fi™ 2.4 has an auto-ranging, external power supply that can work with an input voltage range of 100~240 VAC, 50/60 Hz; it runs on 12 VDC, 500 mA.

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.



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

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

Orientation The Obey™ 4 D-Fi™ 2.4 may be mounted in any position; however, make sure adequate ventilation is provided around the product.

Rigging Before deciding on a location, always make sure there is easy access to the product. Make sure that the surface onto which you are mounting the product can support the product's weight (see the [Technical Specifications](#)). See the [Dimensions](#) drawing for mounting-hole distances.

4. OPERATION

The Obey™ 4 D-Fi 2.4GHz adds wireless functionality to the original Obey™ 4. In addition to controlling products with DIP switches, an unlimited number of Freedom™-series products and other D-Fi™ 2.4GHz products can be commanded from this single, compact board.

Configuration

To operate the control board:

1. Connect this product to a suitable power outlet.
2. Connect a DMX cable from the DMX output of this product to the DMX input of the first lighting product in the daisy chain (if using), or
3. Press the Wireless Sync button for 15 seconds or until the receiving product(s') signal light blinks rapidly.

DIP Switch Addressing

To use without wireless control, assign DMX channels on each product (or series of products) to channels 1, 5, 9, or 13, respectively, to coincide with the Products #1-4 button on the board. For products with DIP switches, configure with the following DIP switches:

1. Product #1: DIP switch assignment 1 [1].
2. Product #2: DIP switch assignment 5 [1, 3].
3. Product #3: DIP switch assignment 9 [1, 4].
4. Product #4: DIP switch assignment 13 [1, 3, 4].

If you are unfamiliar with DMX and DIP-switch addressing, download the DMX Primer from www.chauvetlighting.com.



Receiving products should be 3~10 ft (1~3 m) away from the Obey™ 4 D-Fi 2.4GHz while syncing.

Using the Wireless Controller Modes

The integrated D-Fi™ 2.4GHz is a wireless transmitter with a range of up to 200 m (656 ft). To use the wireless, press the Wireless Sync button for 15 seconds or until the receiving product(s') signal light blinks rapidly.

The Obey™ D-Fi™ 2.4GHz has 11 operating modes, accessible through the buttons.



Never connect a product that is operating in any standalone mode (either Static, Automatic, or Sound) 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.



The Strobe-Override and Blackout modes will override all other modes and controls. Make sure these are not selected before trying to operate the board in any other mode.



The <White Dimmer> will not be affected in any mode except Color Macros. It operates independently from other operating modes.



Products with amber LEDs will show amber when the <White Dimmer> is on, regardless of mode. For example, when selecting the <Purple> button for Chase mode (see below), amber LEDs will stay on during blackout. Be sure to set the <White Dimmer> to the off position to avoid showing amber when blackout is desired.

Preset Colors

The 9 preset color buttons can be used to assign a color to each addressed product.

1. Select one or more products with the Product Selection (**Fixture**) buttons <1> through <4>.
2. Press <**Preset**> until the LED for the desired product(s) lights up.
3. Use the <**Fade Time**> fader to set the fade time.
4. Use the <**Master Dimmer**> to set the desired intensity of the light.
5. Select one of the 9 <**Preset Color**> buttons.



Sound-Active mode will not function in Preset mode.

RGB Fade This mode will fade all connected products in unison as the colors change.

1. Select one or more products with the Product Selection (**Fixture**) buttons <1> through <4>.
2. Press <RGB Fade> until the LED for the desired product lights.
3. Use the <Speed Time> fader to set the speed of color change cycle
4. Use the <Fade Time> fader to set the transition time between colors.
5. Use the <Master Dimmer> to set the desired intensity of the light.



Sound-Active mode will function in RGB Fade mode.

Auto

This mode uses built-in programs to change each product independently among random colors.

1. Select one or more products with the Product Selection (**Fixture**) buttons <1> through <4>.
2. Press <AUTO> so the LED indicator lights up.
3. Use the <Speed Time> fader to set the speed of the program.
4. Use the <Master Dimmer> to set the desired intensity of the light.
5. Select one of the 9 <Preset Color> buttons.



Each product (1~4) will show a different, random color in this mode.



Sound-Active mode will function in Auto mode.

Chase

These preset chases provides several color combinations and cycle the LEDs on and off so that the lights appear to move along a string.

1. Select one or more products with the Product Selection (**Fixture**) buttons <1> through <4>.
2. Press the <Chases> button until the LED indicator lights.
3. Use the Preset Colors/Chases buttons to select a chase:

Color/Chase Button	Chase Function
Red	Red/Green
Orange	Green/Blue
Yellow	Red/Blue
Green	Red/Cyan
Cyan	Green/Magenta
Blue	Yellow/Blue
Purple	White/Blackout
Magenta	Color Cycle
White	Yellow/Magenta

4. Use the <Speed Time> fader to set the speed of chase.
5. Use the <Fade Time> fader to set the speed of the fade between colors.
6. Use the <Master Dimmer> to set the desired intensity of the light.



Sound-Active mode will function in Auto mode.

RGB Offset RGB Offset is a built-in color-fade program that will create a serial chase through products 1~4.

1. Press <RGB Fade> and <Auto> at the same time.
2. Use the <Speed Time> fader to set the speed of chase.
3. Use the <Fade Time> fader to set the speed of the fade between colors.
4. Use the <Master Dimmer> to set the desired intensity of the light.



Sound-Active mode will function in RGB Offset mode.

Color Macros

These preset color macros have varying intensities.

1. Select one or more products with the Product Selection (**Fixture**) buttons <1> through <4>.
2. Use the <Speed Time> fader to select the color combination desired.
3. Use the <Fade Time> fader to set the speed of the fade between colors.
4. Use the <Master Dimmer> to set the desired intensity of the light.
5. Use the <White Dimmer> to set the desired intensity of the white/amber LEDs.



Color Macros will apply the same color to each product.



Sound-Active mode will not function while Color Macros are operating.

Sound-Override

This feature will work in **RGB Fade**, **Auto**, **Chase**, and **RGB Offset** modes and creates a sound-activated show using the selected auto mode. Sound-Override can be triggered using the microphone instead of the <Speed Time> fader used for other multi-step modes:

1. Press <Sound> until the LED indicator lights.
2. Adjust the sound sensitivity using the Microphone Sensitivity Adjustment Knob (<Sensitivity>).



The product will only respond to low frequencies of music (bass and drums).



Sound-Override will not function when the unit is in Preset Mode.

White or Amber

This all-white or all-amber operating mode can create a stable wash or spot for varying lighting needs. The only functions that will affect these modes are **Strobe-Override** and **Blackout**.

1. Press the <Manual RGBW> button until the LED indicator lights.
2. Use the <White Dimmer> fader independently to get amber, use all faders to create white.

Strobe-Override

This mode will produce flashes of light at regular intervals. These intervals are determined by moving the dimmer fader.

1. Select one or more products with the Product Selection (<Fixture>) buttons <1> through <4>. **NOTE: Strobe-Override will only affect products that are selected.**
2. Make sure the color faders are at positions above 1% for the strobe to function.
3. Press <Strobe> until the LED indicator lights.
4. Use <Speed Time> to select the speed of the strobe.
5. To cancel this mode for all products at once, double-tap <Strobe> until the LED indicator turns off.
6. To cancel this mode for a single product, make sure <Strobe> is activated and <Fade Time> is set to fully down. Then press <Strobe> until the LED indicator is off.



When in Strobe-Override, the Obey™ D-Fi™ 2.4GHz's other operating modes will not function.

Blackout Darkens all products. The **<Blackout>** button works in conjunction with the **<Fade Time>** fader or alone.

To use fading blackout:

1. Select one or more products with the Product Selection (**Fixture**) buttons **<1>** through **<4>**.
2. Adjust the **<Fade Time>** fader to the desired value to select how quickly the lights will fade out.
3. Press **<Blackout>** until the LED indicator lights.
4. To cancel this mode for a single product (series), make sure **<Blackout>** is activated and **<Fade Time>** is set to 0.1 m (the highest position). Then press **<Blackout>** until the LED indicator is off.

To achieve instant blackout:

1. Double-tap **<Blackout>** to instantly blackout all products.



When in Blackout, the Obey™ D-Fi™ 2.4GHz's other operating modes will not function.



Fading Blackout will not work when the controller is in Manual RGBW/RGBA mode. Pressing Blackout will cause all selected products to blackout immediately.

Manual RGBW/RGBA

Set this mode to use a manually selected custom color combination determined by the positions of the Red, Green, Blue, and White faders.

1. Select one or more products with the Product Selection (**Fixture**) buttons **<1>** through **<4>**.
2. Press **<Manual RGBW>** until the LED indicator lights.
3. Adjust the red, green, blue, and white/amber faders to the desired level.



When in Manual RGBW mode, pressing <Blackout> will immediately blackout the products. Fading blackout operation does not function in Manual RGBW.



Speed/Fade Time functions do not operate in Manual RGBW mode.

5. MAINTENANCE

Product Maintenance

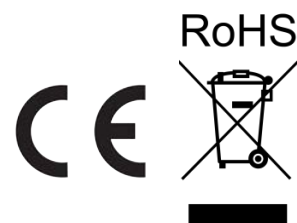
Dust build-up can cause overheating. This can lead to mechanical wear. To maintain optimum performance, clean the product at least twice a month. However, usage and environmental conditions can contribute to increased cleaning frequency.

To clean the product, follow the instructions below:

- Unplug the product from power.
- Wait until the product is room temperature.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight	Length	Width	Height	Weight
	12.8 in (325 mm)	5.5 in (140 mm)	2.1 in (55 mm)	3 lbs (1.4 kg)
	Note: Dimensions in inches rounded to the nearest decimal digit.			
Power and Wireless Connectivity	Power Supply Type	Range		Voltage Selection
	Switching (internal)	100~240 V, 50/60 Hz		Auto-ranging
	Input Voltage			
	12 VDC 500 mA			
	TX Refresh Rate		DMX Refresh Rate	Max Unobstructed Distance
	15 Hz		40 Hz	656 ft (200 m)
	Operating Frequency		RF Output	Antenna Connection
Thermal	2.433-2.481 GHz		18.5 dBm	RP-SMA
	Maximum External Temp.	Cooling System		
	104° F (40° C)	Convection		
DMX	I/O Connectors		Connector Type	
	3-pin XLR		Socket	
Ordering	Product Name		Item Code	UPC Number
	Obey 4 D-Fi 2.4		09080460	781462208127



To return a product or request support:

- In the U.S., contact CHAUVET® World Headquarters (see below).
- In the UK or Ireland, contact CHAUVET® Europe Ltd. (see below).
- In any other country, DO NOT contact CHAUVET®. Contact your distributor. 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.

Returns

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.

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. 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

World Headquarters CHAUVET®

General Information

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Sunrise, FL 33351
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Fax: (954) 929-5560
Toll free: (800) 762-1084

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World Wide Web

www.chauvetlighting.com

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