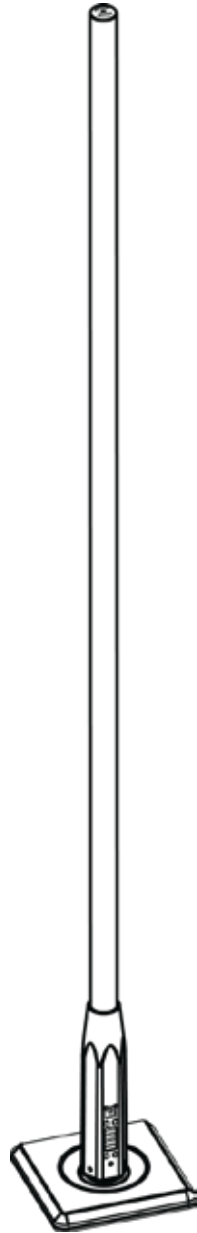


# FREEDOM STICK<sup>®</sup>

## User Manual



  
**CHAUVET<sup>®</sup>3**

---

# TABLE OF CONTENTS

|   |           |
|---|-----------|
| <b>1. Before You Begin</b> .....          | <b>3</b>  |
| What Is Included .....                    | 3         |
| Unpacking Instructions .....              | 3         |
| Claims.....                               | 3         |
| Text Conventions .....                    | 3         |
| Symbols .....                             | 3         |
| Disclaimer .....                          | 3         |
| Product at a Glance .....                 | 4         |
| Safety Notes.....                         | 4         |
| <b>2. Introduction</b> .....              | <b>5</b>  |
| Product Overview .....                    | 5         |
| Product Dimensions .....                  | 5         |
| <b>3. Setup</b> .....                     | <b>6</b>  |
| AC Power .....                            | 6         |
| Battery Power.....                        | 6         |
| Charging the Battery.....                 | 6         |
| Battery Life Indicator.....               | 6         |
| Battery Run Time.....                     | 6         |
| Mounting .....                            | 7         |
| Orientation .....                         | 7         |
| Rigging .....                             | 7         |
| <b>4. Operation</b> .....                 | <b>8</b>  |
| Control Panel Operation.....              | 8         |
| Menu Map .....                            | 8         |
| Wireless DMX Linking.....                 | 9         |
| DMX Personality and Starting Address..... | 9         |
| Wireless DMX Configuration.....           | 9         |
| DMX Channel Assignments and Values .....  | 10        |
| 50CH .....                                | 10        |
| 50CH (cont.) .....                        | 11        |
| 48CH .....                                | 11        |
| 48CH (cont.) .....                        | 12        |
| 8-CH .....                                | 13        |
| 8-CH (cont.) .....                        | 14        |
| 3-CH .....                                | 14        |
| Configuration (Standalone) .....          | 15        |
| Automatic Programs .....                  | 15        |
| Auto-Program Speed .....                  | 15        |
| Sound-Active Mode .....                   | 15        |
| Sound Sensitivity .....                   | 15        |
| Preset Color Mode.....                    | 15        |
| Custom Color Mixing .....                 | 15        |
| IRC-6 Infrared Remote Control .....       | 16        |
| IRC-6 Operation.....                      | 16        |
| Master/Slave Mode .....                   | 17        |
| <b>5. Maintenance</b> .....               | <b>18</b> |
| Product Maintenance .....                 | 18        |
| <b>6. Technical Specifications</b> .....  | <b>19</b> |
| <b>Returns</b> .....                      | <b>20</b> |
| <b>Contact Us</b> .....                   | <b>21</b> |

# 1. BEFORE YOU BEGIN

## What Is Included

- Freedom Stick
- External Power Supply
- Base Plate
- 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 the product's control panel |
| ON              | A value to be entered or selected                  |

## Symbols

| Symbol  | Meaning   |
|---|---|
|   | Electrical warning. Not following these instructions may cause electrical damage to the product, accessories, or the user.  |
|  | 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

Chauvet believes that the information contained in this manual is accurate in all respects. However, Chauvet assumes no responsibility and specifically disclaims any and all liability to any party for any loss, damage or disruption caused by any errors or omissions in this document, whether such errors or omissions result from negligence, accident or any other cause. Chauvet reserves the right to revise the content of this document without any obligation to notify any person or company of such revision, however, Chauvet has no obligation to make, and does not commit to make, any such revisions. Download the latest version from [www.chauvetlighting.com](http://www.chauvetlighting.com).

The works of authorship contained in this manual, including, but not limited to, all design, text and images are owned by Chauvet.

© Copyright 2016 Chauvet & Sons, Inc. All rights reserved.

Electronically published by Chauvet in the United States of America.

CHAUVET, the Chauvet logo, Freedom Stick, and D-Fi are registered trademarks or trademarks of Chauvet & Sons Inc. (d/b/a Chauvet and Chauvet Lighting) in the United States and other countries. Other company and product names and logos referred to herein may be trademarks of their respective companies.

## Product at a Glance

|               |   |                           |   |
|---------------|---|---------------------------|---|
| Use on Dimmer | X | Auto Programs             | P |
| Outdoor Use   | X | Auto-ranging Power Supply | P |
| Sound-Active  | P | Replaceable Fuse          | X |
| DMX           | P | User-Serviceable          | X |
| Master/Slave  | P |                           |   |

## 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.



- This product is not intended for permanent installation.
- 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.



- 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.
- This product is neither a toy nor a weapon.
- 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.

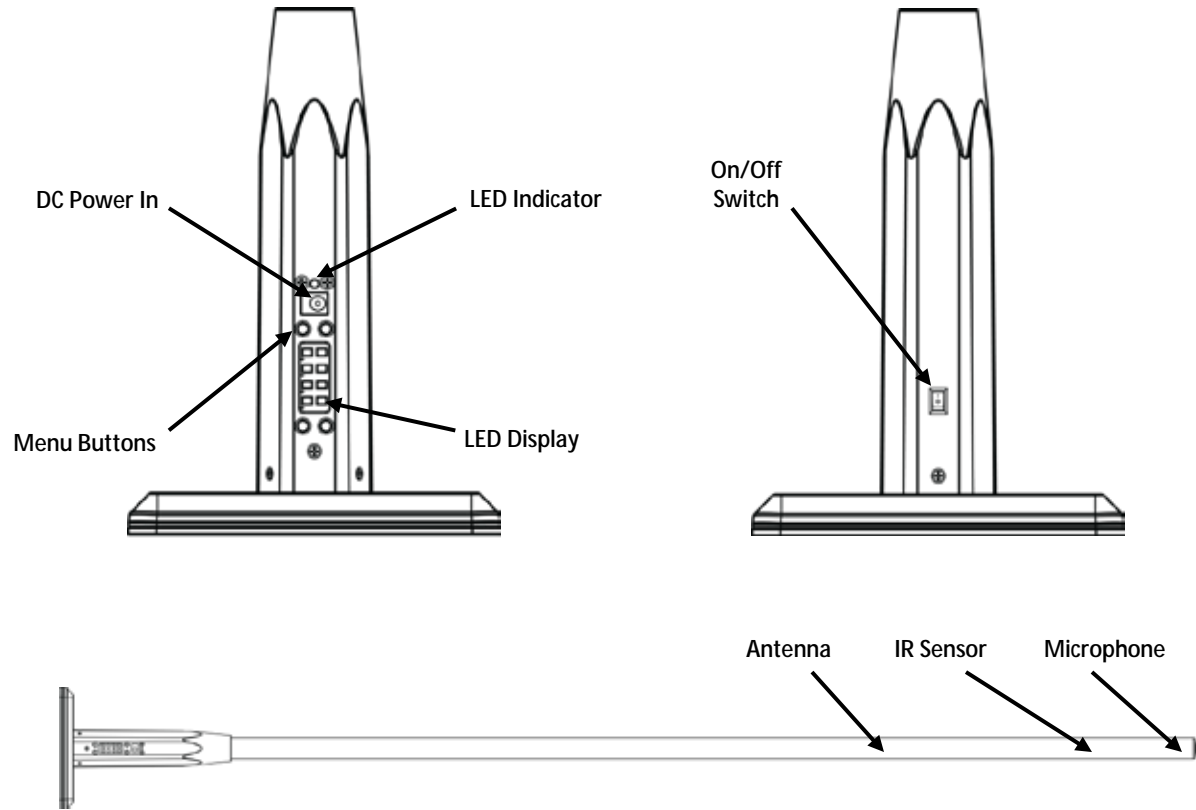


Keep this User Manual for future use. If you sell the product to someone else, be sure that they also receive this document.

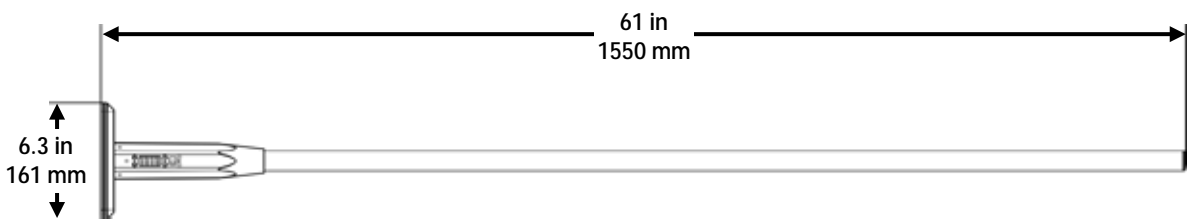
---

## 2. INTRODUCTION

### Product Overview



### Product Dimensions



### 3. SETUP

#### AC Power

The Freedom Stick has an external auto-ranging power supply that 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.**

#### Battery Power

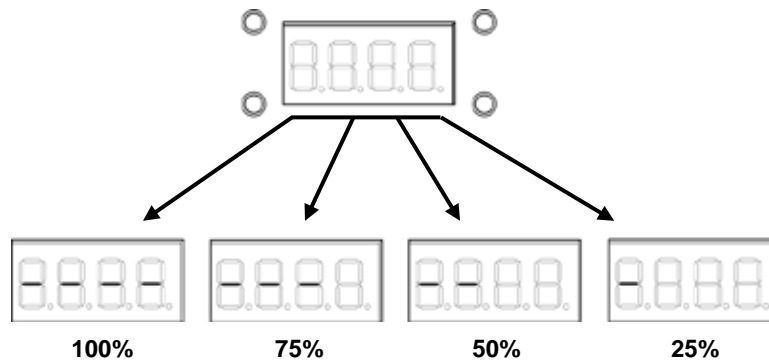
The Freedom Stick comes with a rechargeable lithium battery for cable-free operation.

#### Charging the Battery

The battery charges whenever the product is plugged into a power source. If the product is plugged in and not in operation, make sure the On/Off switch is in the **Off** position.

#### Battery Life Indicator

The indicators on the LED Menu Display show how much battery life remains available. The drawing below provides a key to reading the battery life indicators.



#### Battery Run Time

| Maximum Run Time<br>(all colors on) | Recharge Time |
|-------------------------------------|---------------|
| Up to 6.5 hours                     | 4.5 hours     |

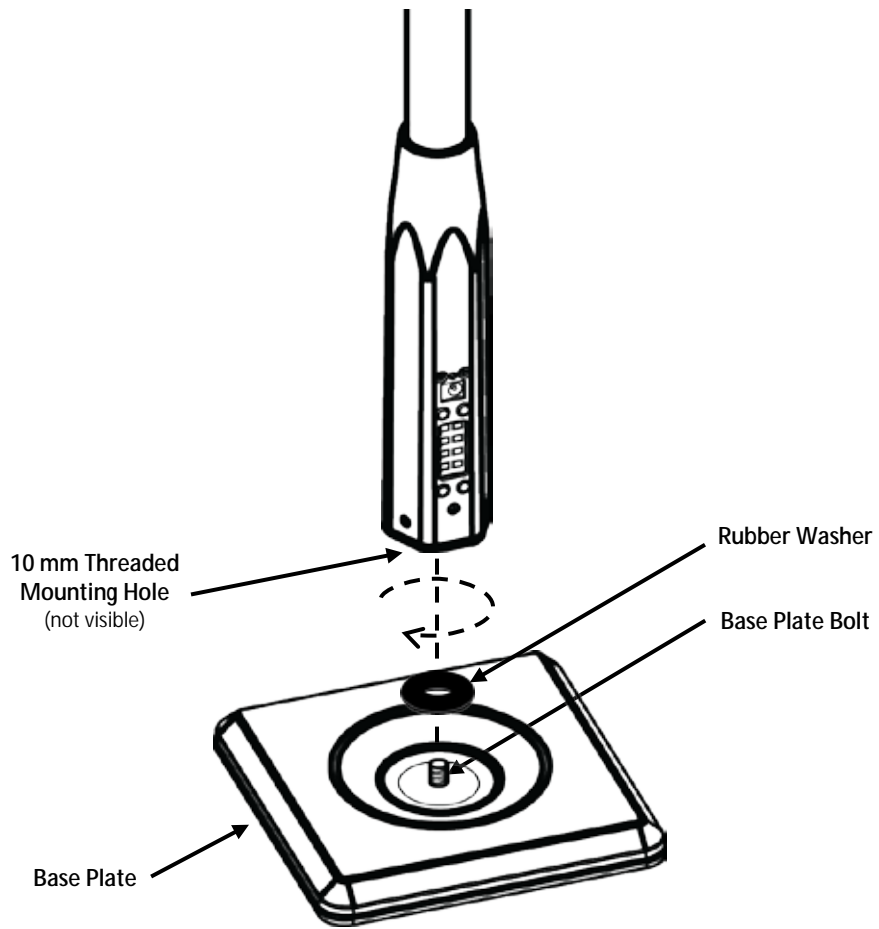
---

**Mounting** Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#).

**Orientation** The Freedom Stick 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 [Technical Specifications](#) 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.
  - The base serves as a floor support. When mounting the product on the floor, make sure that the product is away from people and vehicles.

**Mounting Diagram**



# 4. OPERATION

## Control Panel Operation

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 panel.

| Button  | Function  |
|---------|---|
| <MENU>  | Press to find an operation mode or to back out of the current menu option |
| <UP>    | Press to scroll up the list of options or to find a higher value          |
| <DOWN>  | Press to scroll down the list of options or to find a lower value         |
| <ENTER> | Press to activate a menu option or a selected value                       |

## Menu Map

| Main Function      | Programming Levels |  | Description  |  |   |
|--------------------|--------------------|--|--|--|---|
| DMX Mode           | 3-CH               | d001-512   | Selects DMX personality and DMX address              |  |   |
|                    | 8-CH               |  |  |  |   |
|                    | 48CH               |  |  |  |   |
|                    | 50CH               |  |  |  |   |
| Preset Colors      | C--                | C1-7   | Static colors  |  |   |
| Automatic Programs | P--                | P 1-21   |  | Sets Auto Program 1-21   |   |
|                    |                    | P 22-27  | 1--r   | 2--r   | Sets Auto Program 22-27, color 1, and color 2 |
|                    |                    |  | 1-rg   | 2-rg   |   |
|                    |                    |  | 1--g   | 2--g   |   |
|                    |                    |  | 1-gb   | 2-gb   |   |
|                    |                    |  | 1--b   | 2--b   |   |
|                    |                    |  | 1-rb   | 2-rb   |   |
|                    |                    |  | 1rgb   | 2rgb   |   |
|                    |                    | 1OFF   | 2OFF   |  |   |
|                    |                    | P 28   |  | Sets Auto Program 28 (cycles Auto Programs 1-21)                     |   |
| P 29-34            |                    | Sets Auto Program 29-34 (designed for Master/Slave mode) |  |  |   |
| P 35               |                    | Sets Auto Program 35 (cycles Auto Programs 29-34)        |  |  |   |
| Speed              | S--                | S 1-100  | Program speed setting                                |  |   |
| Sound-Active Mode  | Snd                | Snd  | Sets Sound-Active mode                               |  |   |
| Sound Sensitivity  | SenS               | u 0-100  | Sound sensitivity setting                            |  |   |
| RGB Color Mixing   | U--                | r 0-255 (red)  | Custom static colors<br>Combine red, green, and blue |  |   |
|                    |                    | g 0-255 (green)  |  |  |   |
|                    |                    | b 0-255 (blue)   |  |  |   |
| Infrared Mode      | Set                | ON   | IR function on or off                                |  |   |
|                    |                    | OFF  |  |  |   |
| Wireless DMX Mode  | S-tr               | ON   | dtCH dt 1-16   | Turns on Wireless DMX mode and sets transmitter or receiver channels |   |
|                    |                    |  | drCH dr 1-16   |  |   |
| Slave Mode         | SLA                | OFF  |  | Sets Slave mode 1-4 (defines order of Master/Slave programs)         |   |
|                    |                    | SLA1   |  |  |   |
|                    |                    | SLA2   |  |  |   |
|                    |                    | SLA3   |  |  |   |
|                    |                    | SLA4   |  |  |   |



For each program 22-27, color 1 and color 2 cannot be assigned the same color.



---

## Wireless DMX Linking

The Freedom Stick works with a DMX controller in Wireless DMX mode. In Wireless DMX mode a lighting control board or D-Fi product must send wireless DMX signals to the products. Information about DMX is in the DMX Primer, which is available from the Chauvet website [www.chauvetlighting.com/download](http://www.chauvetlighting.com/download).

## DMX Personality and Starting Address

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.

The Freedom Stick uses up to 50 DMX channels in a 50-CH DMX mode, which defines the highest configurable address to **463**.

If you are not familiar with the DMX protocol, download the DMX Primer from [www.chauvetlighting.com](http://www.chauvetlighting.com).

To select the starting address, do the following:

1. Press **<MENU>** repeatedly until **3-CH**, **8-CH**, **48CH**, or **50CH** shows on the display.
2. Press **<ENTER>** and **d 1–512** will show on the display.
3. Use **<UP>** or **<DOWN>** to select the starting address.
4. Press **<ENTER>**.

## Wireless DMX Configuration

The Freedom Stick offers wireless control of 2 or more products with a single DMX controller. To set up the D-Fi 2.4 GHz transceiver, do the following.

For the transmitting product:

1. Press **<MENU>** repeatedly until **S-tr** shows on the display.
2. Press **<ENTER>**.
3. Press **<UP>** or **<DOWN>** until **dtCH** appears on the display.
4. Press **<ENTER>**.
5. Use **<UP>** or **<DOWN>** to select the transmitting signal (**dt 1–dt16**).

For the receiving product(s):

1. Press **<MENU>** repeatedly until **S-tr** shows on the display.
2. Press **<ENTER>**.
3. Press **<UP>** or **<DOWN>** until **drCH** appears on the display.
4. Press **<ENTER>**.
5. Use **<UP>** or **<DOWN>** to select the receiving signal (**dr 1–dr16**). The channel number should match the transmitting signal you chose when setting up the transmitting product.



**Caution: D-Fi 2.4 GHz operation can be interrupted or inhibited by obstructions or masses between the transmitter and receiver such as structures or people. For best results, keep the line of sight clear.**



- The Freedom Stick is fully compatible with the D-Fi 2.4 GHz wireless transceiver (transmitter/receiver) from Chauvet (sold separately). For more detailed information about D-Fi 2.4 GHz functionality, refer to the D-Fi 2.4 GHz User Manual available at the Chauvet website [www.chauvetlighting.com](http://www.chauvetlighting.com).
- Ensure that all linked products are configured to the same DMX personality.

## DMX Channel Assignments and Values

| 50CH | Channel | Function | Value     | Percent/Setting |
|------|---------|----------|-----------|-----------------|
|      | 1       | Red 1    | 000 ó 255 | 0-100%          |
|      | 2       | Green 1  | 000 ó 255 | 0-100%          |
|      | 3       | Blue 1   | 000 ó 255 | 0-100%          |
|      | 4       | Red 2    | 000 ó 255 | 0-100%          |
|      | 5       | Green 2  | 000 ó 255 | 0-100%          |
|      | 6       | Blue 2   | 000 ó 255 | 0-100%          |
|      | 7       | Red 3    | 000 ó 255 | 0-100%          |
|      | 8       | Green 3  | 000 ó 255 | 0-100%          |
|      | 9       | Blue 3   | 000 ó 255 | 0-100%          |
|      | 10      | Red 4    | 000 ó 255 | 0-100%          |
|      | 11      | Green 4  | 000 ó 255 | 0-100%          |
|      | 12      | Blue 4   | 000 ó 255 | 0-100%          |
|      | 13      | Red 5    | 000 ó 255 | 0-100%          |
|      | 14      | Green 5  | 000 ó 255 | 0-100%          |
|      | 15      | Blue 5   | 000 ó 255 | 0-100%          |
|      | 16      | Red 6    | 000 ó 255 | 0-100%          |
|      | 17      | Green 6  | 000 ó 255 | 0-100%          |
|      | 18      | Blue 6   | 000 ó 255 | 0-100%          |
|      | 19      | Red 7    | 000 ó 255 | 0-100%          |
|      | 20      | Green 7  | 000 ó 255 | 0-100%          |
|      | 21      | Blue 7   | 000 ó 255 | 0-100%          |
|      | 22      | Red 8    | 000 ó 255 | 0-100%          |
|      | 23      | Green 8  | 000 ó 255 | 0-100%          |
|      | 24      | Blue 8   | 000 ó 255 | 0-100%          |
|      | 25      | Red 9    | 000 ó 255 | 0-100%          |
|      | 26      | Green 9  | 000 ó 255 | 0-100%          |
|      | 27      | Blue 9   | 000 ó 255 | 0-100%          |
|      | 28      | Red 10   | 000 ó 255 | 0-100%          |
|      | 29      | Green 10 | 000 ó 255 | 0-100%          |
|      | 30      | Blue 10  | 000 ó 255 | 0-100%          |
|      | 31      | Red 11   | 000 ó 255 | 0-100%          |
|      | 32      | Green 11 | 000 ó 255 | 0-100%          |
|      | 33      | Blue 11  | 000 ó 255 | 0-100%          |
|      | 34      | Red 12   | 000 ó 255 | 0-100%          |
|      | 35      | Green 12 | 000 ó 255 | 0-100%          |
|      | 36      | Blue 12  | 000 ó 255 | 0-100%          |
|      | 37      | Red 13   | 000 ó 255 | 0-100%          |
|      | 38      | Green 13 | 000 ó 255 | 0-100%          |
|      | 39      | Blue 13  | 000 ó 255 | 0-100%          |

| <b>50CH</b><br>(cont.) | <b>Channel</b> | <b>Function</b> | <b>Value</b> | <b>Percent/Setting</b> |
|------------------------|----------------|-----------------|--------------|------------------------|
|                        | 40             | Red 14          | 000 ó 255    | 0–100%                 |
|                        | 41             | Green 14        | 000 ó 255    | 0–100%                 |
|                        | 42             | Blue 14         | 000 ó 255    | 0–100%                 |
|                        | 43             | Red 15          | 000 ó 255    | 0–100%                 |
|                        | 44             | Green 15        | 000 ó 255    | 0–100%                 |
|                        | 45             | Blue 15         | 000 ó 255    | 0–100%                 |
|                        | 46             | Red 16          | 000 ó 255    | 0–100%                 |
|                        | 47             | Green 16        | 000 ó 255    | 0–100%                 |
|                        | 48             | Blue 16         | 000 ó 255    | 0–100%                 |
|                        | 49             | Strobe          | 000 ó 010    | No function            |
|                        |                |                 | 011 ó 255    | Strobe, slow to fast   |
|                        | 50             | Dimmer          | 000 ó 031    | No function            |

| <b>48CH</b> | <b>Channel</b> | <b>Function</b> | <b>Value</b> | <b>Percent/Setting</b> |
|-------------|----------------|-----------------|--------------|------------------------|
|             | 1              | Red 1           | 000 ó 255    | 0–100%                 |
|             | 2              | Green 1         | 000 ó 255    | 0–100%                 |
|             | 3              | Blue 1          | 000 ó 255    | 0–100%                 |
|             | 4              | Red 2           | 000 ó 255    | 0–100%                 |
|             | 5              | Green 2         | 000 ó 255    | 0–100%                 |
|             | 6              | Blue 2          | 000 ó 255    | 0–100%                 |
|             | 7              | Red 3           | 000 ó 255    | 0–100%                 |
|             | 8              | Green 3         | 000 ó 255    | 0–100%                 |
|             | 9              | Blue 3          | 000 ó 255    | 0–100%                 |
|             | 10             | Red 4           | 000 ó 255    | 0–100%                 |
|             | 11             | Green 4         | 000 ó 255    | 0–100%                 |
|             | 12             | Blue 4          | 000 ó 255    | 0–100%                 |
|             | 13             | Red 5           | 000 ó 255    | 0–100%                 |
|             | 14             | Green 5         | 000 ó 255    | 0–100%                 |
|             | 15             | Blue 5          | 000 ó 255    | 0–100%                 |
|             | 16             | Red 6           | 000 ó 255    | 0–100%                 |
|             | 17             | Green 6         | 000 ó 255    | 0–100%                 |
|             | 18             | Blue 6          | 000 ó 255    | 0–100%                 |
|             | 19             | Red 7           | 000 ó 255    | 0–100%                 |
|             | 20             | Green 7         | 000 ó 255    | 0–100%                 |
|             | 21             | Blue 7          | 000 ó 255    | 0–100%                 |
|             | 22             | Red 8           | 000 ó 255    | 0–100%                 |
|             | 23             | Green 8         | 000 ó 255    | 0–100%                 |
|             | 24             | Blue 8          | 000 ó 255    | 0–100%                 |
|             | 25             | Red 9           | 000 ó 255    | 0–100%                 |
|             | 26             | Green 9         | 000 ó 255    | 0–100%                 |
|             | 27             | Blue 9          | 000 ó 255    | 0–100%                 |

| <b>48CH</b><br>(cont.) | <b>Channel</b> | <b>Function</b> | <b>Value</b> | <b>Percent/Setting</b> |
|------------------------|----------------|-----------------|--------------|------------------------|
|                        | 28             | Red 10          | 000 ó 255    | 0-100%                 |
|                        | 29             | Green 10        | 000 ó 255    | 0-100%                 |
|                        | 30             | Blue 10         | 000 ó 255    | 0-100%                 |
|                        | 31             | Red 11          | 000 ó 255    | 0-100%                 |
|                        | 32             | Green 11        | 000 ó 255    | 0-100%                 |
|                        | 33             | Blue 11         | 000 ó 255    | 0-100%                 |
|                        | 34             | Red 12          | 000 ó 255    | 0-100%                 |
|                        | 35             | Green 12        | 000 ó 255    | 0-100%                 |
|                        | 36             | Blue 12         | 000 ó 255    | 0-100%                 |
|                        | 37             | Red 13          | 000 ó 255    | 0-100%                 |
|                        | 38             | Green 13        | 000 ó 255    | 0-100%                 |
|                        | 39             | Blue 13         | 000 ó 255    | 0-100%                 |
|                        | 40             | Red 14          | 000 ó 255    | 0-100%                 |
|                        | 41             | Green 14        | 000 ó 255    | 0-100%                 |
|                        | 42             | Blue 14         | 000 ó 255    | 0-100%                 |
|                        | 43             | Red 15          | 000 ó 255    | 0-100%                 |
|                        | 44             | Green 15        | 000 ó 255    | 0-100%                 |
|                        | 45             | Blue 15         | 000 ó 255    | 0-100%                 |
|                        | 46             | Red 16          | 000 ó 255    | 0-100%                 |
|                        | 47             | Green 16        | 000 ó 255    | 0-100%                 |
|                        | 48             | Blue 16         | 000 ó 255    | 0-100%                 |

## 8-CH

| Channel   | Function     | Value     | Percent/Setting                       |
|-----------|--------------|-----------|---------------------------------------|
| 1         | Dimmer       | 000 ó 255 | 0–100%                                |
| 2         | Red          | 000 ó 255 | 0–100%                                |
| 3         | Green        | 000 ó 255 | 0–100%                                |
| 4         | Blue         | 000 ó 255 | 0–100%                                |
| 5         | Color Macros | 000 ó 010 | No function                           |
|           |              | 011 ó 030 | R: 100%      G: 0–100%      B: 0%     |
|           |              | 031 ó 050 | R: 100–0%      G: 100%      B: 0%     |
|           |              | 051 ó 070 | R: 0%      G: 100%      B: 0–100%     |
|           |              | 071 ó 090 | R: 0%      G: 100–0%      B: 100%     |
|           |              | 091 ó 110 | R: 0–100%      G: 0%      B: 100%     |
|           |              | 111 ó 130 | R: 100%      G: 0%      B: 100–0%     |
|           |              | 131 ó 150 | R: 100%      G: 0–100%      B: 0–100% |
|           |              | 151 ó 170 | R: 100–0%      G: 100–0%      B: 100% |
|           |              | 171 ó 200 | R: 100%      G: 100%      B: 100%     |
|           |              | 201 ó 205 | Color 1                               |
|           |              | 206 ó 210 | Color 2                               |
|           |              | 211 ó 215 | Color 3                               |
|           |              | 216 ó 220 | Color 4                               |
|           |              | 221 ó 225 | Color 5                               |
|           |              | 226 ó 230 | Color 6                               |
|           |              | 231 ó 235 | Color 7                               |
|           |              | 236 ó 240 | Color 8                               |
|           |              | 241 ó 245 | Color 9                               |
|           |              | 246 ó 250 | Color 10                              |
| 251 ó 255 | Color 11     |           |                                       |
| 6         | Strobe       | 000 ó 010 | No function                           |
|           |              | 011 ó 255 | Strobe, slow to fast                  |

| <b>8-CH</b><br>(cont.) | <b>Channel</b>                        | <b>Function</b>                              | <b>Value</b>                   | <b>Percent/Setting</b>   |
|------------------------|---------------------------------------|--|--------------------------------|--------------------------|
| 7                      | Auto Programs                         |  | 000 ó 010                      | No function              |
|                        |                                       |  | 011 ó 018                      | Auto program 1           |
|                        |                                       |  | 019 ó 026                      | Auto program 2           |
|                        |                                       |  | 027 ó 034                      | Auto program 3           |
|                        |                                       |  | 035 ó 042                      | Auto program 4           |
|                        |                                       |  | 043 ó 050                      | Auto program 5           |
|                        |                                       |  | 051 ó 058                      | Auto program 6           |
|                        |                                       |  | 059 ó 066                      | Auto program 7           |
|                        |                                       |  | 067 ó 074                      | Auto program 8           |
|                        |                                       |  | 075 ó 082                      | Auto program 9           |
|                        |                                       |  | 083 ó 090                      | Auto program 10          |
|                        |                                       |  | 091 ó 098                      | Auto program 11          |
|                        |                                       |  | 099 ó 106                      | Auto program 12          |
|                        |                                       |  | 107 ó 114                      | Auto program 13          |
|                        |                                       |  | 115 ó 122                      | Auto program 14          |
|                        |                                       |  | 123 ó 130                      | Auto program 15          |
|                        |                                       |  | 131 ó 138                      | Auto program 16          |
|                        |                                       |  | 139 ó 146                      | Auto program 17          |
|                        |                                       |  | 147 ó 154                      | Auto program 18          |
|                        |                                       |  | 155 ó 162                      | Auto program 19          |
|                        |                                       |  | 163 ó 170                      | Auto program 20          |
|                        |                                       |  | 171 ó 178                      | Auto program 21          |
|                        |                                       |  | 179 ó 186                      | Auto program 22          |
|                        |                                       |  | 187 ó 194                      | Auto program 23          |
|                        |                                       |  | 195 ó 202                      | Auto program 24          |
|                        |                                       |  | 203 ó 210                      | Auto program 25          |
|                        |                                       |  | 211 ó 218                      | Auto program 26          |
|                        | 219 ó 226                             | Auto program 27                              |                                |                          |
|                        | 227 ó 234                             | Auto program 28 (cycle auto programs 1–21)   |                                |                          |
|                        | 235 ó 255                             | Sound-Active program                         |                                |                          |
| 8                      | Auto Speed<br>(When Ch. 7 is 011–234) |  | 000 ó 255                      | Auto speed, slow to fast |
|                        |                                       | Sound Sensitivity<br>(When Ch. 7 is 235–255) | 000 ó 010                      | Sound sensitivity off    |
|                        | 011 ó 255                             |  | Sound sensitivity, low to high |                          |

| <b>3-CH</b> | <b>Channel</b> | <b>Function</b> | <b>Value</b> | <b>Percent/Setting</b> |
|-------------|----------------|-----------------|--------------|------------------------|
|             | 1              | Red             | 000 ó 255    | 0–100%                 |
|             | 2              | Green           | 000 ó 255    | 0–100%                 |
|             | 3              | Blue            | 000 ó 255    | 0–100%                 |

---

## Configuration (Standalone)

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.**

### Automatic Programs

To run the Freedom Stick in automatic mode, follow the instructions below:

1. Press **<MENU>** repeatedly until **P--** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** and **<DOWN>** to select an auto program (**P 1–35**).
4. Press **<ENTER>**.

For **P 22–27**:

5. Use **<UP>** or **<DOWN>** to select the first color (**1--r, 1--rg, 1--g, 1--gb, 1--b, 1--rb, 1rgb, or 1OFF**).
6. Press **<ENTER>**.
7. Use **<UP>** or **<DOWN>** to select the second color (**2--r, 2--rg, 2--g, 2--gb, 2--b, 2--rb, 2rgb, or 2OFF**).
8. Press **<ENTER>**.



**For each program 22–27, color 1 and color 2 cannot be assigned the same color.**

### Auto-Program Speed

To change the auto-program speed on the Freedom Stick, do the following:

1. Press **<MENU>** repeatedly until **S--** shows on the display.
2. Use **<UP>** and **<DOWN>** to increase or decrease the program speed (**S 1–100**).
3. Press **<ENTER>**. The product will return to the last selected mode.

### Sound-Active Mode

To run the Freedom Stick in sound-active mode, do the following:

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



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

### Sound Sensitivity

To change the sound sensitivity on the Freedom Stick, follow the instructions below:

1. Press **<MENU>** repeatedly until **SenS** shows on the display.
2. Use **<UP>** and **<DOWN>** to increase or decrease the sound sensitivity (**u 0–100**).
3. Press **<ENTER>**. The product will return to the last selected mode.

### Preset Color Mode

To run the Freedom Stick in preset color mode, follow the instructions below:

1. Press **<MENU>** repeatedly until **C--** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** and **<DOWN>** to select a static color (**C1–7**).
4. Press **<ENTER>**.

### Custom Color Mixing

To custom mix a static color, follow the instructions below:

1. Press **<MENU>** repeatedly until **U--** shows on the display.
2. Press **<ENTER>** and one of the following will show on the display:
  - **r\_\_** (red)
  - **g\_\_** (green)
  - **b\_\_** (blue)
3. Press **<ENTER>** to cycle through the color settings.
4. When the desired color shows on the display, use **<UP>** or **<DOWN>** to increase or decrease the color value.
5. Repeat steps 3 and 4 until the product outputs as desired.

## IRC-6 Infrared Remote Control

The Freedom Stick is compatible with the IRC-6 infrared remote control from Chauvet. To activate IR mode, follow the instructions below:

1. Press **<MENU>** repeatedly until **Set** shows on the display.
2. Press **<ENTER>** to accept.
3. Press **<UP>** or **<DOWN>** to select **ON** or **OFF**.
4. Press **<ENTER>**.

## IRC-6 Operation



### 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-6.
2. Press **<+>** or **<->** to choose between the different auto programs.

To adjust the speed of the automatic program:

1. Press **<SPEED>** on the IRC-6.
2. Press **<+>** or **<->** to 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:

1. Press **<SOUND>** on the IRC-6.

To adjust sound sensitivity in Sound-Active mode:

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

### Manual Color Control

To choose a specific color with the IRC-6:

1. Press **<MANUAL>** on the IRC-6.
2. Press any number between **<0>**~**<9>** to choose your color.

To manually control the RGB percentage:

1. Press **<MANUAL>** on the IRC-6.
2. Press **<R>** (red), **<G>** (green), or **<B>** (blue) to choose your color.
3. Press **<+>** or **<->** to increase or decrease the percentage of each color.

### Miscellaneous Operation

To adjust the total output level:

1. Press **<%>** on the IRC-6.
2. Press **<+>** or **<->** to increase or decrease the output level.

To adjust the strobe rate of the program:

1. Press **<STROBE>** on the IRC-6.
2. Press **<+>** or **<->** to increase or decrease the strobe rate.
3. Press **<STROBE>** again to turn off the strobe.

To select only fading programs:

1. Press **<FADE>** on the IRC-6.
2. Press **<+>** or **<->** to select **P 20** or **P 21**.

To black out the lights:

1. Press **<BLACK OUT>** on the IRC-6.

This will turn off all the lights until the button is pressed again.

**NOTE:** The IRC-6 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.



---

## Master/Slave Mode

Master/Slave mode allows a single Freedom Stick product (the “master”) to control the actions of one or more Freedom Stick products (the “slaves”) without the need of a DMX controller or DMX cables. The master (transmitter) product will be set to operate in either 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 or in sequence with the master product.

Configure the products as indicated below.

### Slave products:

1. Press **<MENU>** repeatedly until **S-tr** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select **ON**.
4. Press **<ENTER>**.
5. Use **<UP>** or **<DOWN>** to select **drCH**.
6. Press **<ENTER>**.
7. Select the receiving D-Fi channel, **dr 1–16**.
8. Press **<ENTER>**.
9. Press **<MENU>** repeatedly until **SLA** shows on the display.
10. Press **<ENTER>** to accept.
11. Use **<UP>** or **<DOWN>** to select **SLA1** (first slave), **SLA2** (second slave), **SLA3** (third slave), or **SLA4** (fourth slave).
12. Press **<ENTER>**.
13. Finish setting and connecting all the slave products.

### Master product:

1. Press **<MENU>** repeatedly until **S-tr** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select **ON**.
4. Press **<ENTER>**.
5. Use **<UP>** or **<DOWN>** to select **dtCH**.
6. Press **<ENTER>**.
7. Use **<UP>** or **<DOWN>** to select the transmitting channel that the slave products are receiving.
8. Press **<ENTER>**.
9. Set the master product to operate either:
  - With the IRC-6.
  - In Sound-Active mode
  - or
  - In Auto mode. **P 29–35** are designed specifically for Master/Slave mode, but all programs will work.



- **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

### **Product Maintenance**

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:

1. Unplug the product from power.
2. Wait until the product is at room temperature.
3. Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
4. Clean all 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 transparent surface.
7. Gently polish the transparent surfaces until they are free of haze and lint.



**Always dry the transparent surfaces carefully after cleaning them.**

## 6. TECHNICAL SPECIFICATIONS

| Dimensions and Weight | Length          | Width           | Height          | Weight          |
|-----------------------|-----------------|-----------------|-----------------|-----------------|
|                       | 6.3 in (161 mm) | 6.3 in (161 mm) | 61 in (1550 mm) | 3.5 lb (1.6 kg) |

**Note:** Dimensions in inches rounded to the nearest decimal digit.

| Power             | Parameter              | Freedom Stick            | External Power Supply |
|-------------------|------------------------|--------------------------|-----------------------|
|                   | Input Voltage          | Fixed                    | Switching (internal)  |
| Range             | 15 VDC, 800 mA         | 100 to 240 VAC, 50/60 Hz |                       |
| Voltage Selection | Fixed                  | Auto-ranging             |                       |
| Light Source      | Parameter              | 120 V, 60 Hz             | 230 V, 50 Hz          |
|                   | Consumption            | 35 W                     | 35 W                  |
|                   | Operating Current      | 0.05 A                   | 0.03 A                |
| Photometrics      | Type                   | Power                    | Lifespan              |
|                   | SMD LED                | 0.2 W                    | 50,000 hours          |
| Thermal           | Color                  | Quantity                 | Current               |
|                   | Tri-color RGB          | 32                       | 50 mA                 |
| DMX               | Parameter              | Value                    |                       |
|                   | Strobe Rate            | 0 to 30 Hz               |                       |
| Ordering          | Coverage Angle         | 360°                     |                       |
|                   | Maximum External Temp. | Cooling System           |                       |
|                   | 104 °F (40 °C)         | Convection               |                       |
| I/O Connectors    | Channel Range          |                          |                       |
|                   | 3-pin XLR              | 3, 8, 48 or 50           |                       |
| Product Name      | Item Code              | UPC Number               |                       |
| Freedom Stick     | 03051130               | 781462214784             |                       |



---

# RETURNS

In case you need 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 [www.chauvetlighting.com](http://www.chauvetlighting.com) 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](http://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

### Technical Support

Voice: (954) 577-4455 (Press 4)

Fax: (954) 756-8015

Email: [tech@chauvetlighting.com](mailto:tech@chauvetlighting.com)

### World Wide Web

[www.chauvetlighting.com](http://www.chauvetlighting.com)

## EUROPE

### General Information - Chauvet Europe BVBA

Address: Stokstraat 18  
9770 Kruishoutem  
Belgium

Voice: +32 9 388 93 97

### Technical Support

Email: [Eutech@chauvetlighting.eu](mailto:Eutech@chauvetlighting.eu)

### World Wide Web

[www.chauvetlighting.eu](http://www.chauvetlighting.eu)

### 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

### Technical Support

Email: [uktech@chauvetlighting.com](mailto:uktech@chauvetlighting.com)

### World Wide Web

[www.chauvetlighting.co.uk](http://www.chauvetlighting.co.uk)

## MEXICO

### General Information - Chauvet Mexico

Address: Av. Santa Ana 30  
Parque Industrial Lerma  
Lerma, Mexico C.P. 52000

Voice: +52 (728) 285-5000

### Technical Support

Email: [servicio@chauvet.com.mx](mailto:servicio@chauvet.com.mx)

### World Wide Web

[www.chauvet.com.mx](http://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.