

FESTOON 2 RGB

User Manual

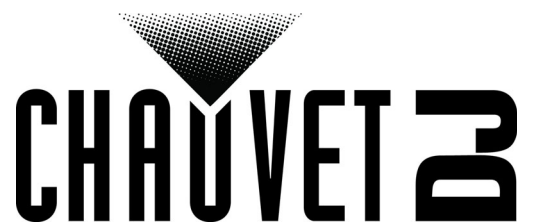
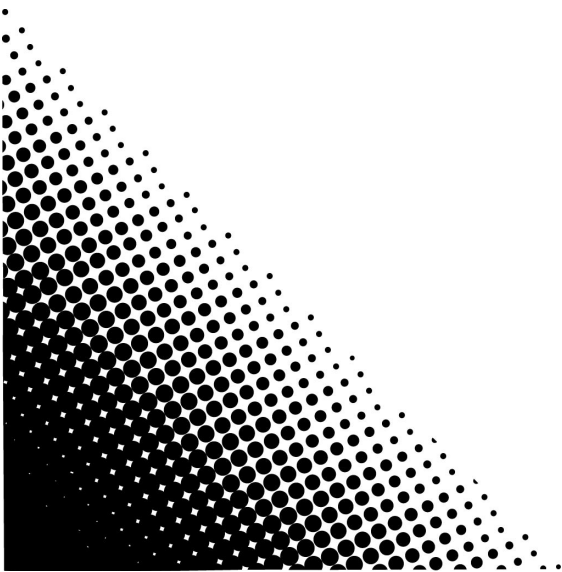
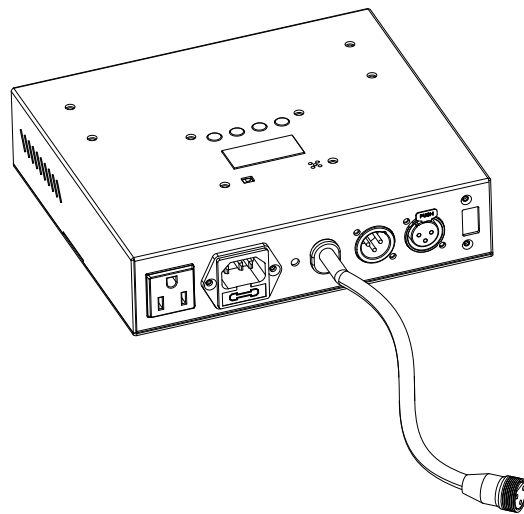
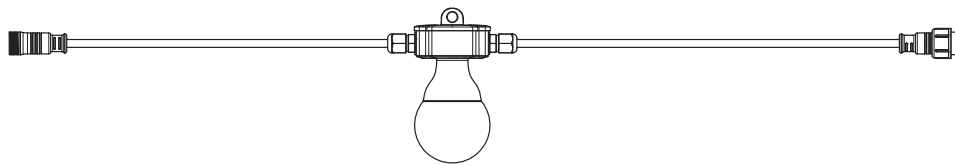


TABLE OF CONTENTS

| | |
|-------------------------------------------|----|
| 1. Before You Begin | 1 |
| What Is Included | 1 |
| Unpacking Instructions | 1 |
| Claims | 1 |
| Text Conventions | 1 |
| Symbols | 1 |
| Disclaimer | 1 |
| Intellectual Property | 1 |
| Safety Notes..... | 2 |
| 2. Introduction | 3 |
| Product Overview..... | 3 |
| Product Dimensions..... | 4 |
| 3. Setup | 5 |
| AC Power | 5 |
| Fuse Replacement..... | 5 |
| Power Linking..... | 6 |
| Mounting | 7 |
| Controller..... | 7 |
| Mounting | 8 |
| Festoon String Linking | 8 |
| 4. Operation | 9 |
| Control Panel Operation..... | 9 |
| Menu Map | 9 |
| Configuration (DMX) | 10 |
| DMX Personality and Starting Address..... | 10 |
| Set # of Festoon 2 RGB Strings..... | 10 |
| DMX Channel Assignments and Values | 11 |
| Pixel Mapping Personalities | 12 |
| Configuration (Standalone) | 18 |
| Control Mode..... | 18 |
| Static Colors..... | 18 |
| Automatic Programs..... | 18 |
| Sound Mode Sensitivity..... | 18 |
| Manual Color Mixing | 18 |
| Dimmer Curve..... | 18 |
| IRC-6 Infrared Remote Control | 19 |
| IRC-6 Operation | 19 |
| 5. Maintenance | 20 |
| Product Maintenance | 20 |
| 6. Technical Specifications | 21 |
| Returns | 22 |
| Contact Us | 23 |

1. BEFORE YOU BEGIN

What Is Included

- Festoon 2 RGB Controller
- 20 RGB bulbs
- Extension Cable (5 m)
- Power Cord
- 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 |
| <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

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Intellectual Property

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Safety Notes



- 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.
- The bulbs can get hot with excessive use. Avoid touching them with bare hands, and always allow the bulb to cool before handling.
- This product is not intended for permanent installation.



- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- The Festoon 2 RGB is for indoor or temporary outdoor use (IP54). Do not expose to harsh or excessively corrosive environmental conditions (whether indoors or outdoors), including, but not limited to, extreme temperatures, humidity, atmospheric conditions (including salinity or pressure), radiation (UV, infrared or nuclear), shock and conditions which exceed the product's Ingress Protection (IP) rating.
- **ALWAYS terminate the open end of your string when being used outdoors or near moisture.**
- Always install the product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Be sure that no ventilation slots on the product's housing are blocked.
- Never connect the product to a dimmer.
- Make sure to replace the fuse with another of the same type and rating.
- Never carry the product from the power cord or any moving part. Always use the hanging/mounting bracket.
- The maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate the product at higher temperatures.
- In the event of a serious operating problem, stop using the product immediately.
- Never try to repair the product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.



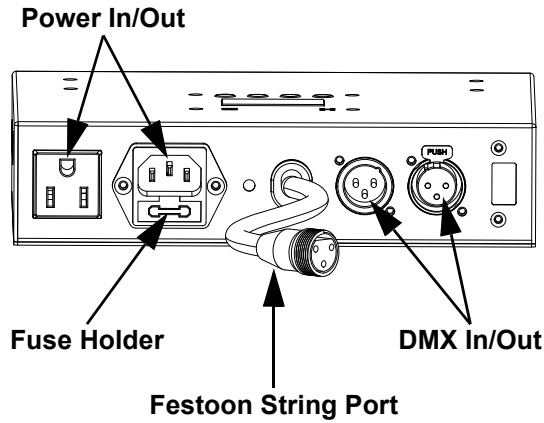
Keep this User Manual for future use. If you sell the product, be sure that they receive this document.

2. INTRODUCTION

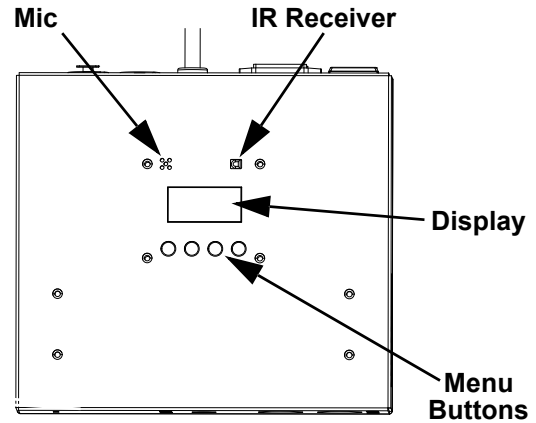
Product Overview

Festoon 2 RGB Controller

Back Panel View



Top Panel View



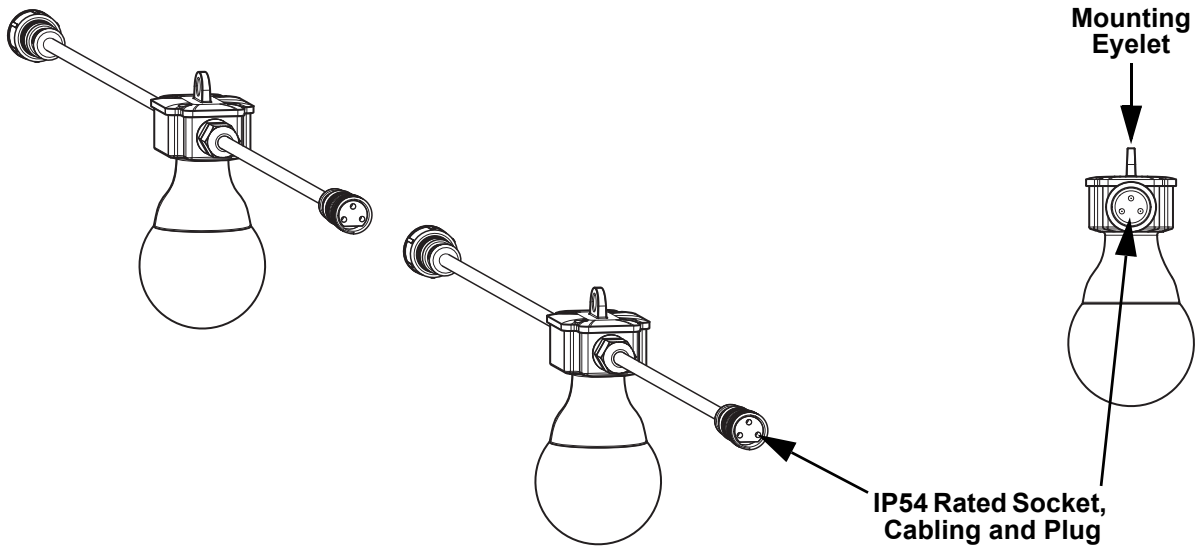
Extension Cable



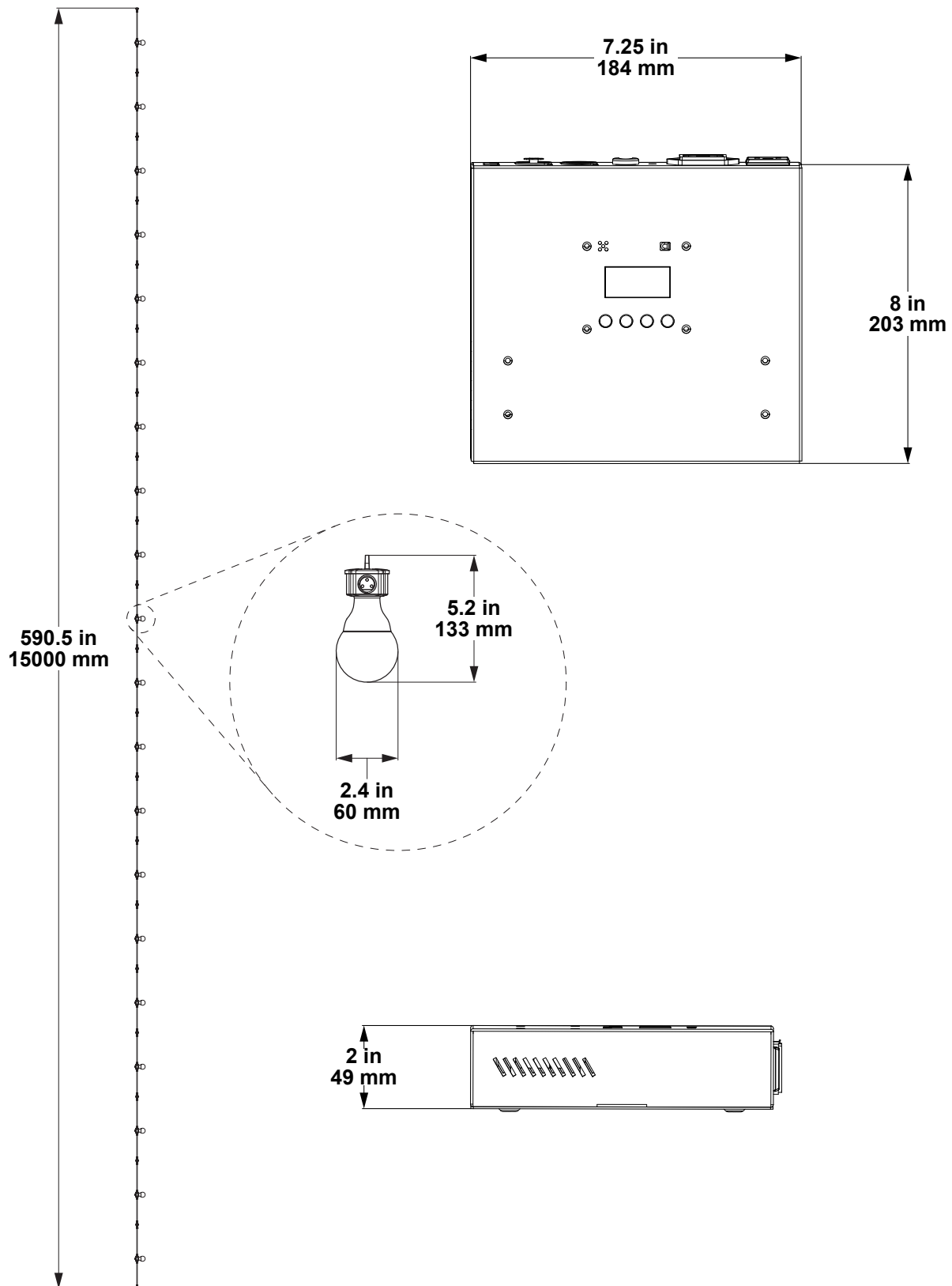
Festoon 2 RGB String of Bulbs



Festoon 2 RGB Bulb (In Detail)



Product Dimensions



3. SETUP

AC Power

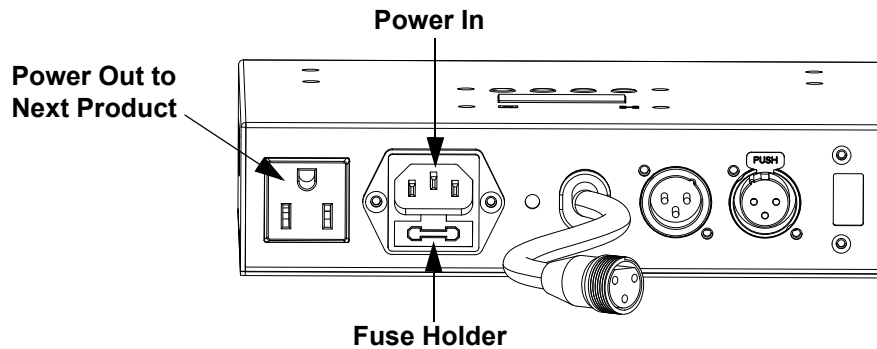
The Festoon 2 RGB has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz. To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.



- **Always connect the product to a protected circuit (circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product from power via breaker or by unplugging it.**

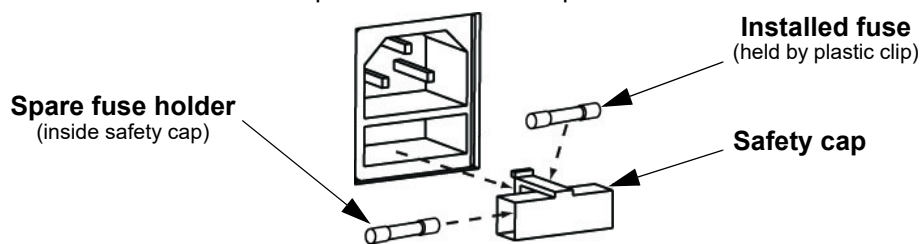


Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.



Fuse Replacement

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

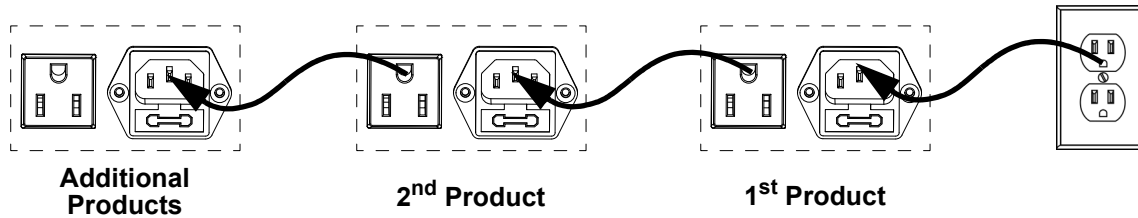


Disconnect the product from the power outlet before replacing the fuse.

Power Linking

The product provides power linking via the Edison outlet located in the back of the product. Please see the diagram below for further explanation. The Festoon 2 RGB controller can each control up to 3 strings (60 bulbs)

Power Linking Diagram



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

Mounting Controller

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

Orientation

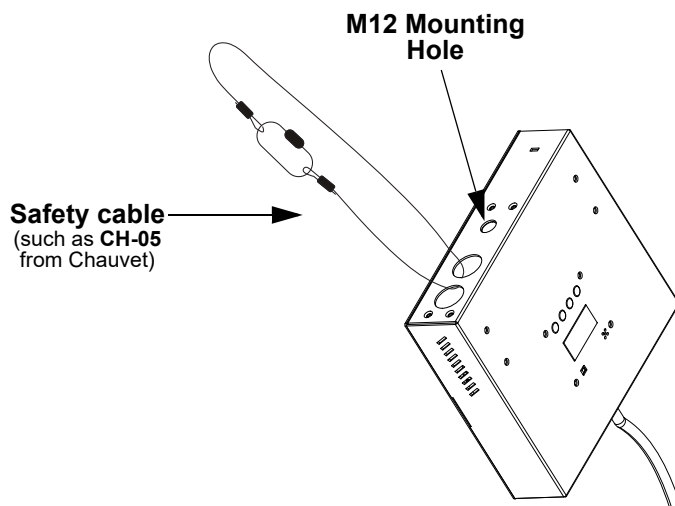
The Festoon 2 RGB controller may be mounted in any position; however, make sure adequate ventilation is provided around the product.

Rigging

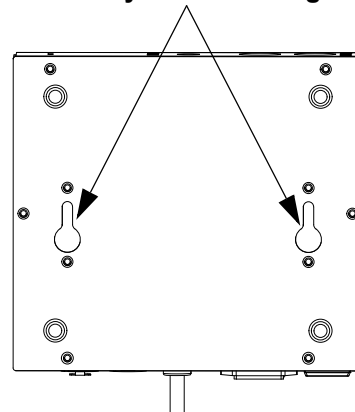
- Before deciding on a location for the product, always make sure there is easy access to the product for maintenance and IRC or programming purposes.
- Make sure that the structure onto which you are mounting the product can support the product's weight. See the [Technical Specifications](#) for weight 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.
- When power linking multiple products, mount the products close enough for power linking cables to reach.

Mounting Diagram

Festoon 2 RGB Controller



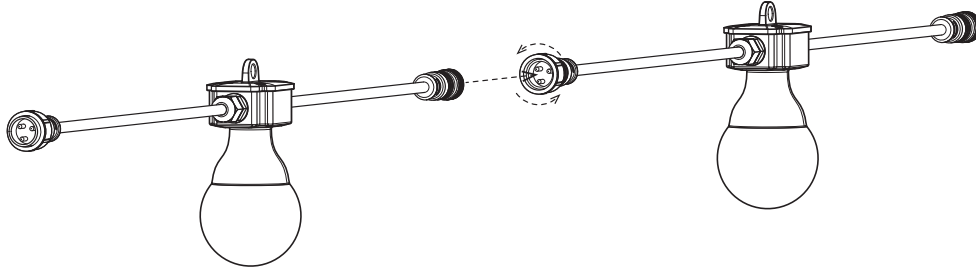
Rear Keyhole Mounting



Mounting

Festoon String Linking

The Festoon 2 RGB includes 20 RGB bulbs. These bulbs can be connected for a custom length. Every 20 bulbs are considered one LED string for Pixel and Pixel+ DMX personalities. Before mounting the product, read and follow the safety recommendations indicated in the [Safety Notes](#).



Your Festoon 2 RGB string may be exposed to rain and moisture and comes with an IP rated cap meant to terminate the end of the Festoon 2 RGB string. Retain this cap, and ALWAYS terminate the open end of your string when being used outdoors or near moisture.

Orientation

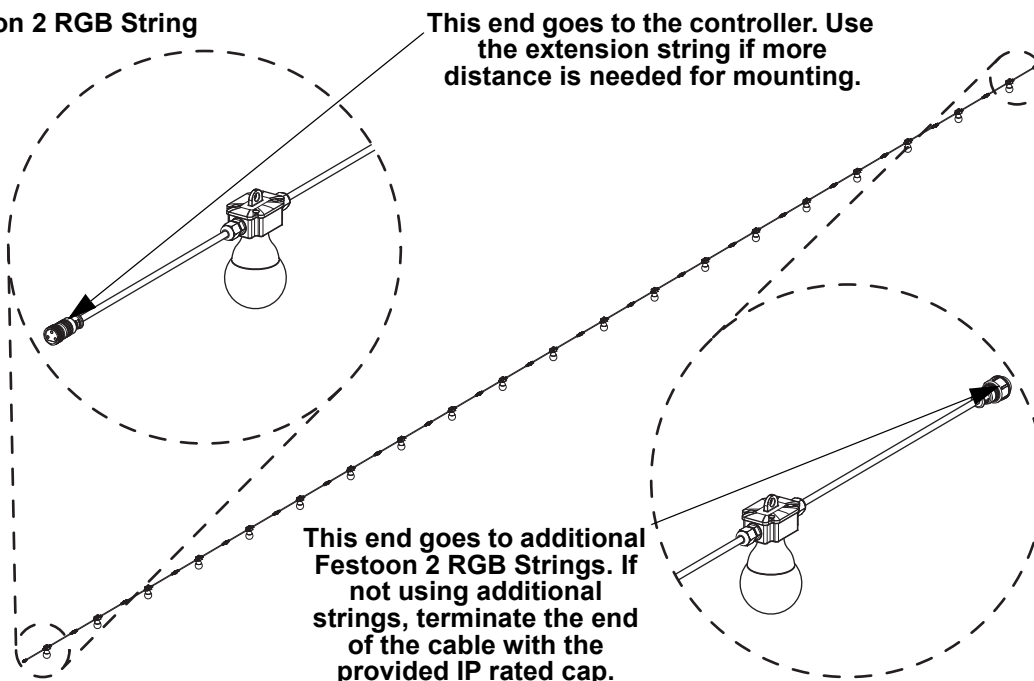
The Festoon 2 RGB String may be installed using various ways to achieve a vintage look and feel. The Festoon 2 RGB can be expendable up to 60 bulbs per controller.

Rigging

- Before deciding on a location for the product, always make sure there is adequate length/distance to the controller and other strings. Use the extension string if necessary.
- 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.
- Use the built-in eyelets to hang the Festoon/Festoon VW String. The extension string may be hung with zip-ties or equivalent.
- To prevent line sagging, it is recommended to use every eyelet, or in open installation areas (such as outdoors) it is recommended to run a guy line and attach the Festoon 2 RGB to the guy wire.
- Use support poles as necessary. Chauvet recommends a support pole every 8 m. If the support poles are used as end or corner supports, they will need to be tied back.
- The height of the attachment point should be at least 8 feet (2.4 m), or higher when deemed necessary.

Mounting Diagram

Festoon 2 RGB String



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

| Mode | Programming Levels | | | Description | |
|-----------------------|--------------------|---------|------------|----------------------------------------|------------------------------------------------------|
| Control Mode | Control | DMX | | Set the control mode | |
| | | Music | | | |
| | | Auto | | | |
| | | Manual | | | |
| | | Preset | | | |
| DMX Address | Address | 001–512 | | Sets the DMX starting address | |
| DMX Channel | Channel | 03-CH | | Select the DMX personality | |
| | | 09-CH | | | |
| | | Pixel | | | |
| | | Pixel+ | | | |
| Dimmer Mode | Dim Curve | OFF | | No dimming effect | |
| | | Curve1 | | Sets the dimming speed, fast to slow | |
| | | Curve2 | | | |
| | | Curve3 | | | |
| Static Color | Custom | C-01–19 | | Static colors | |
| Auto Programs | Program | P-01–38 | Sp:000–100 | Select auto program and speed | |
| Sound Active | Music | 000–100 | | Select the sound active sensitivity | |
| Manual Color Mixing | Manual | Color | Red | 000–255 | Custom color mixing: Combine red, green, and blue |
| | | | Green | 000–255 | |
| | | | Blue | 000–255 | |
| IR Setting | Remote | ON | | Turns IRC-6 control on or off | |
| | | OFF | | | |
| LED EXT | Led Strg | 1 strg | | Singular Festoon EXT string (20 bulbs) | |
| | | 2 strg | | + Festoon EXT strings (40 bulbs) | |
| | | 3 strg | | + 2 Festoon EXT strings (60 bulbs) | |
| Back Light Setting | Backlight | ON | | LED display does not turn off | |
| | | 30S | | LED display turns off after 30 seconds | |
| | | 60S | | LED display turns off after 60 seconds | |
| Factory Default Reset | Default | NO | | Resets to factory default settings | |
| | | YES | | | |
| Information | Version | V_ _ | | Shows installed software version | |

Configuration (DMX)

The Festoon 2 RGB works with a DMX controller. If you are not familiar with the DMX protocol, information about DMX is in the CHAUVET DMX Primer. Download the DMX Primer from http://www.chauvetlighting.com/downloads/DMX_Primer_rev05_WO.pdf.

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.

To select the starting address, do the following:

1. Press **<MENU>** repeatedly until **03-CH**, **09-CH**, **Pixel**, or **Pixel+** shows on the display.
2. Press **<ENTER>** and **d 1** will show on the display.
3. Use **<UP>** or **<DOWN>** to select the starting address.
4. Press **<ENTER>**.

Set # of Festoon 2 RGB Strings

The Festoon 2 RGB controller can control up to 3 Festoon 2 RGB strings (60 bulbs). Follow the directions below to setup your Festoon 2 RGB:

1. Press **<MENU>** repeatedly until **Led Strg** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select either **1 strg** (20 bulbs), **2 strg** (40 bulbs), or **3 strg** (60 bulbs).
4. Press **<ENTER>**.



Your Festoon 2 RGB string comes with an IP rated cap meant to terminate the end of the Festoon 2 RGB string. Retain this cap, and ALWAYS terminate the open end of your string when being used outdoors or near moisture.

DMX Channel Assignments and Values

9Ch

| Channel | Function | Value | Percent/Setting |
|-----------|-----------------------|-----------|----------------------|
| 1 | Dimmer | 000 ⇔ 255 | 0–100% |
| 2 | Red | 000 ⇔ 255 | 0–100% |
| 3 | Green | 000 ⇔ 255 | 0–100% |
| 4 | Blue | 000 ⇔ 255 | 0–100% |
| 5 | Color Macros | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Color Macros |
| 6 | Strobe | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |
| 7 | Auto & Sound Programs | 000 ⇔ 010 | No function |
| | | 011 ⇔ 016 | Auto Program 1 |
| | | 017 ⇔ 022 | Auto Program 2 |
| | | 023 ⇔ 028 | Auto Program 3 |
| | | 029 ⇔ 034 | Auto Program 4 |
| | | 035 ⇔ 040 | Auto Program 5 |
| | | 041 ⇔ 046 | Auto Program 6 |
| | | 047 ⇔ 052 | Auto Program 7 |
| | | 053 ⇔ 058 | Auto Program 8 |
| | | 059 ⇔ 064 | Auto Program 9 |
| | | 065 ⇔ 070 | Auto Program 10 |
| | | 071 ⇔ 076 | Auto Program 11 |
| | | 077 ⇔ 082 | Auto Program 12 |
| | | 083 ⇔ 088 | Auto Program 13 |
| | | 089 ⇔ 094 | Auto Program 14 |
| | | 095 ⇔ 100 | Auto Program 15 |
| | | 101 ⇔ 106 | Auto Program 16 |
| | | 107 ⇔ 112 | Auto Program 17 |
| | | 113 ⇔ 118 | Auto Program 18 |
| | | 119 ⇔ 124 | Auto Program 19 |
| | | 125 ⇔ 130 | Auto Program 20 |
| | | 131 ⇔ 136 | Auto Program 21 |
| | | 137 ⇔ 142 | Auto Program 22 |
| | | 143 ⇔ 148 | Auto Program 23 |
| | | 149 ⇔ 154 | Auto Program 24 |
| | | 155 ⇔ 160 | Auto Program 25 |
| | | 161 ⇔ 166 | Auto Program 26 |
| | | 167 ⇔ 172 | Auto Program 27 |
| | | 173 ⇔ 178 | Auto Program 28 |
| | | 179 ⇔ 184 | Auto Program 29 |
| | | 185 ⇔ 190 | Auto Program 30 |
| | | 191 ⇔ 196 | Auto Program 31 |
| | | 197 ⇔ 202 | Auto Program 32 |
| | | 203 ⇔ 208 | Auto Program 33 |
| | | 209 ⇔ 214 | Auto Program 34 |
| | | 215 ⇔ 220 | Auto Program 35 |
| | | 221 ⇔ 226 | Auto Program 36 |
| | | 227 ⇔ 232 | Auto Program 37 |
| 233 ⇔ 238 | Auto Program 38 | | |
| | | 239 ⇔ 255 | Sound Active Program |

| Channel | Function | Value | Percent/Setting |
|---------|-------------------------------------------------------|--------------------------------------|--------------------------------------------------|
| 8 | Program Speed (when Ch. 7 is 010 ⇔ 238) | 000 ⇔ 255 | Program speed, slow to fast |
| | Sound Sensitivity (when Ch. 1 is 239 ⇔ 255) | 000 ⇔ 010 011 ⇔ 255 | Sound sensitivity off Sound sensitivity level |
| 9 | Dimmer Speed Mode | 000 ⇔ 051 | Dimmer Speed set by Display Menu |
| | | 052 ⇔ 101 | Dimmer Speed Mode Off |
| | | 102 ⇔ 152 | Dimmer Speed Mode 1 (fast) |
| | | 153 ⇔ 203 | Dimmer Speed Mode 2 |
| | | 204 ⇔ 255 | Dimmer Speed Mode 3 (slow) |

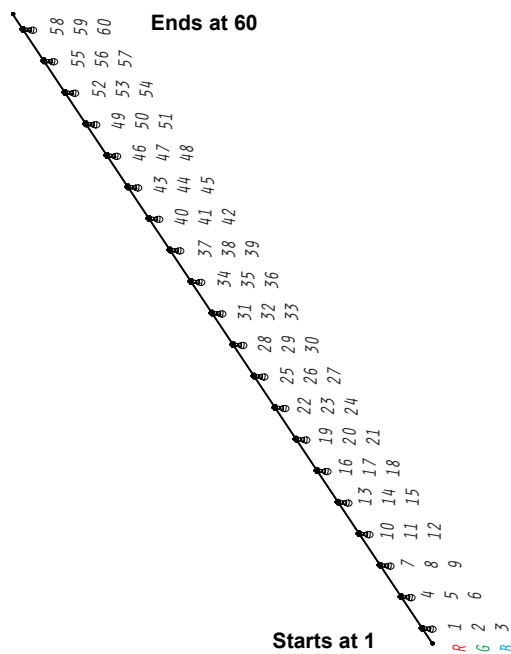
3Ch

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

Pixel Mapping Personalities

DMX pixel mapping personalities assign individual DMX control to each bulb in the Festoon string/s. The **Pixel** Mode will allow for custom color selection for each bulb. The **Pixel+** Mode allows for custom color control, dimmer control, strobe control, and auto/sound program control. Select **Pixel** or **Pixel+** under the **Channel** setting to use the Pixel Mapping Personalities. The pixel mapping personalities depends on the number of festoon strings you have connected. Every 20 bulbs is considered one LED string.

Example Layout: 1 LED String (20 bulbs)



Up to 2 festoon EXT strings can be connected to the first string of 20 bulbs. Set the amount of EXT strings under the **Led Strg** setting.



For example, if there is 1 festoon string of 20 bulbs and 1 festoon EXT string of 20 bulbs connected, the Led Strg setting in the menu must have “2 strg” selected.

Pixel Mode

| Channel | Function | Value | Percent/Setting |
|---------|----------------|-----------|-----------------|
| 1 | Pixel 1 Red | 000 ⇔ 255 | 0-100% |
| 2 | Pixel 1 Green | 000 ⇔ 255 | 0-100% |
| 3 | Pixel 1 Blue | 000 ⇔ 255 | 0-100% |
| 4 | Pixel 2 Red | 000 ⇔ 255 | 0-100% |
| 5 | Pixel 2 Green | 000 ⇔ 255 | 0-100% |
| 6 | Pixel 2 Blue | 000 ⇔ 255 | 0-100% |
| 7 | Pixel 3 Red | 000 ⇔ 255 | 0-100% |
| 8 | Pixel 3 Green | 000 ⇔ 255 | 0-100% |
| 9 | Pixel 3 Blue | 000 ⇔ 255 | 0-100% |
| 10 | Pixel 4 Red | 000 ⇔ 255 | 0-100% |
| 11 | Pixel 4 Green | 000 ⇔ 255 | 0-100% |
| 12 | Pixel 4 Blue | 000 ⇔ 255 | 0-100% |
| 13 | Pixel 5 Red | 000 ⇔ 255 | 0-100% |
| 14 | Pixel 5 Green | 000 ⇔ 255 | 0-100% |
| 15 | Pixel 5 Blue | 000 ⇔ 255 | 0-100% |
| 16 | Pixel 6 Red | 000 ⇔ 255 | 0-100% |
| 17 | Pixel 6 Green | 000 ⇔ 255 | 0-100% |
| 18 | Pixel 6 Blue | 000 ⇔ 255 | 0-100% |
| 19 | Pixel 7 Red | 000 ⇔ 255 | 0-100% |
| 20 | Pixel 7 Green | 000 ⇔ 255 | 0-100% |
| 21 | Pixel 7 Blue | 000 ⇔ 255 | 0-100% |
| 22 | Pixel 8 Red | 000 ⇔ 255 | 0-100% |
| 23 | Pixel 8 Green | 000 ⇔ 255 | 0-100% |
| 24 | Pixel 8 Blue | 000 ⇔ 255 | 0-100% |
| 25 | Pixel 9 Red | 000 ⇔ 255 | 0-100% |
| 26 | Pixel 9 Green | 000 ⇔ 255 | 0-100% |
| 27 | Pixel 9 Blue | 000 ⇔ 255 | 0-100% |
| 28 | Pixel 10 Red | 000 ⇔ 255 | 0-100% |
| 29 | Pixel 10 Green | 000 ⇔ 255 | 0-100% |
| 30 | Pixel 10 Blue | 000 ⇔ 255 | 0-100% |
| 31 | Pixel 11 Red | 000 ⇔ 255 | 0-100% |
| 32 | Pixel 11 Green | 000 ⇔ 255 | 0-100% |
| 33 | Pixel 11 Blue | 000 ⇔ 255 | 0-100% |
| 34 | Pixel 12 Red | 000 ⇔ 255 | 0-100% |
| 35 | Pixel 12 Green | 000 ⇔ 255 | 0-100% |
| 36 | Pixel 12 Blue | 000 ⇔ 255 | 0-100% |
| 37 | Pixel 13 Red | 000 ⇔ 255 | 0-100% |
| 38 | Pixel 13 Green | 000 ⇔ 255 | 0-100% |
| 39 | Pixel 13 Blue | 000 ⇔ 255 | 0-100% |
| 40 | Pixel 14 Red | 000 ⇔ 255 | 0-100% |
| 41 | Pixel 14 Green | 000 ⇔ 255 | 0-100% |
| 42 | Pixel 14 Blue | 000 ⇔ 255 | 0-100% |
| 43 | Pixel 15 Red | 000 ⇔ 255 | 0-100% |
| 44 | Pixel 15 Green | 000 ⇔ 255 | 0-100% |
| 45 | Pixel 15 Blue | 000 ⇔ 255 | 0-100% |
| 46 | Pixel 16 Red | 000 ⇔ 255 | 0-100% |
| 47 | Pixel 16 Green | 000 ⇔ 255 | 0-100% |
| 48 | Pixel 16 Blue | 000 ⇔ 255 | 0-100% |

| Channel | Function | Value | Percent/Setting |
|---------|----------------|-----------|-----------------|
| 49 | Pixel 17 Red | 000 ⇔ 255 | 0-100% |
| 50 | Pixel 17 Green | 000 ⇔ 255 | 0-100% |
| 51 | Pixel 17 Blue | 000 ⇔ 255 | 0-100% |
| 52 | Pixel 18 Red | 000 ⇔ 255 | 0-100% |
| 53 | Pixel 18 Green | 000 ⇔ 255 | 0-100% |
| 54 | Pixel 18 Blue | 000 ⇔ 255 | 0-100% |
| 55 | Pixel 19 Red | 000 ⇔ 255 | 0-100% |
| 56 | Pixel 19 Green | 000 ⇔ 255 | 0-100% |
| 57 | Pixel 19 Blue | 000 ⇔ 255 | 0-100% |
| 58 | Pixel 20 Red | 000 ⇔ 255 | 0-100% |
| 59 | Pixel 20 Green | 000 ⇔ 255 | 0-100% |
| 60 | Pixel 20 Blue | 000 ⇔ 255 | 0-100% |
| 61 | Pixel 21 Red | 000 ⇔ 255 | 0-100% |
| ... | ... | ... | ... |
| 121 | Pixel 41 Red | 000 ⇔ 255 | 0-100% |
| ... | ... | ... | ... |
| 181 | Pixel 61 Red | 000 ⇔ 255 | 0-100% |

Pixel+ Mode

| Channel | Function | Value | Percent/Setting |
|-----------|------------------------------------------------|-----------|-----------------------------|
| 1 | Dimmer | 000 ⇔ 255 | 0–100% |
| 2 | Strobe | 000 ⇔ 010 | No function |
| | | 011 ⇔ 255 | Strobe, slow to fast |
| 3 | Auto & Sound Programs | 000 ⇔ 010 | No function |
| | | 011 ⇔ 016 | Auto Program 1 |
| | | 017 ⇔ 022 | Auto Program 2 |
| | | 023 ⇔ 028 | Auto Program 3 |
| | | 029 ⇔ 034 | Auto Program 4 |
| | | 035 ⇔ 040 | Auto Program 5 |
| | | 041 ⇔ 046 | Auto Program 6 |
| | | 047 ⇔ 052 | Auto Program 7 |
| | | 053 ⇔ 058 | Auto Program 8 |
| | | 059 ⇔ 064 | Auto Program 9 |
| | | 065 ⇔ 070 | Auto Program 10 |
| | | 071 ⇔ 076 | Auto Program 11 |
| | | 077 ⇔ 082 | Auto Program 12 |
| | | 083 ⇔ 088 | Auto Program 13 |
| | | 089 ⇔ 094 | Auto Program 14 |
| | | 095 ⇔ 100 | Auto Program 15 |
| | | 101 ⇔ 106 | Auto Program 16 |
| | | 107 ⇔ 112 | Auto Program 17 |
| | | 113 ⇔ 118 | Auto Program 18 |
| | | 119 ⇔ 124 | Auto Program 19 |
| | | 125 ⇔ 130 | Auto Program 20 |
| | | 131 ⇔ 136 | Auto Program 21 |
| | | 137 ⇔ 142 | Auto Program 22 |
| | | 143 ⇔ 148 | Auto Program 23 |
| | | 149 ⇔ 154 | Auto Program 24 |
| | | 155 ⇔ 160 | Auto Program 25 |
| | | 161 ⇔ 166 | Auto Program 26 |
| | | 167 ⇔ 172 | Auto Program 27 |
| | | 173 ⇔ 178 | Auto Program 28 |
| | | 179 ⇔ 184 | Auto Program 29 |
| 185 ⇔ 190 | Auto Program 30 | | |
| 191 ⇔ 196 | Auto Program 31 | | |
| 197 ⇔ 202 | Auto Program 32 | | |
| 203 ⇔ 208 | Auto Program 33 | | |
| 209 ⇔ 214 | Auto Program 34 | | |
| 215 ⇔ 220 | Auto Program 35 | | |
| 221 ⇔ 226 | Auto Program 36 | | |
| 227 ⇔ 232 | Auto Program 37 | | |
| 233 ⇔ 238 | Auto Program 38 | | |
| 239 ⇔ 255 | Sound Active Program | | |
| 4 | Program Speed (when Ch. 3 is 010 ⇔ 238) | 000 ⇔ 255 | Program speed, slow to fast |
| | Sound Sensitivity (when Ch. 3 is 239 ⇔ 255) | 000 ⇔ 010 | Sound sensitivity off |
| | | 011 ⇔ 255 | Sound sensitivity level |
| 5 | Pixel 1 Red | 000 ⇔ 255 | 0–100% |

| Channel | Function | Value | Percent/Setting |
|---------|----------------|-----------|-----------------|
| 6 | Pixel 1 Green | 000 ⇄ 255 | 0-100% |
| 7 | Pixel 1 Blue | 000 ⇄ 255 | 0-100% |
| 8 | Pixel 2 Red | 000 ⇄ 255 | 0-100% |
| 9 | Pixel 2 Green | 000 ⇄ 255 | 0-100% |
| 10 | Pixel 2 Blue | 000 ⇄ 255 | 0-100% |
| 11 | Pixel 3 Red | 000 ⇄ 255 | 0-100% |
| 12 | Pixel 3 Green | 000 ⇄ 255 | 0-100% |
| 13 | Pixel 3 Blue | 000 ⇄ 255 | 0-100% |
| 14 | Pixel 4 Red | 000 ⇄ 255 | 0-100% |
| 15 | Pixel 4 Green | 000 ⇄ 255 | 0-100% |
| 16 | Pixel 4 Blue | 000 ⇄ 255 | 0-100% |
| 17 | Pixel 5 Red | 000 ⇄ 255 | 0-100% |
| 18 | Pixel 5 Green | 000 ⇄ 255 | 0-100% |
| 19 | Pixel 5 Blue | 000 ⇄ 255 | 0-100% |
| 20 | Pixel 6 Red | 000 ⇄ 255 | 0-100% |
| 21 | Pixel 6 Green | 000 ⇄ 255 | 0-100% |
| 22 | Pixel 6 Blue | 000 ⇄ 255 | 0-100% |
| 23 | Pixel 7 Red | 000 ⇄ 255 | 0-100% |
| 24 | Pixel 7 Green | 000 ⇄ 255 | 0-100% |
| 25 | Pixel 7 Blue | 000 ⇄ 255 | 0-100% |
| 26 | Pixel 8 Red | 000 ⇄ 255 | 0-100% |
| 27 | Pixel 8 Green | 000 ⇄ 255 | 0-100% |
| 28 | Pixel 8 Blue | 000 ⇄ 255 | 0-100% |
| 29 | Pixel 9 Red | 000 ⇄ 255 | 0-100% |
| 30 | Pixel 9 Green | 000 ⇄ 255 | 0-100% |
| 31 | Pixel 9 Blue | 000 ⇄ 255 | 0-100% |
| 32 | Pixel 10 Red | 000 ⇄ 255 | 0-100% |
| 33 | Pixel 10 Green | 000 ⇄ 255 | 0-100% |
| 34 | Pixel 10 Blue | 000 ⇄ 255 | 0-100% |
| 35 | Pixel 11 Red | 000 ⇄ 255 | 0-100% |
| 36 | Pixel 11 Green | 000 ⇄ 255 | 0-100% |
| 37 | Pixel 11 Blue | 000 ⇄ 255 | 0-100% |
| 38 | Pixel 12 Red | 000 ⇄ 255 | 0-100% |
| 39 | Pixel 12 Green | 000 ⇄ 255 | 0-100% |
| 40 | Pixel 12 Blue | 000 ⇄ 255 | 0-100% |
| 41 | Pixel 13 Red | 000 ⇄ 255 | 0-100% |
| 42 | Pixel 13 Green | 000 ⇄ 255 | 0-100% |
| 43 | Pixel 13 Blue | 000 ⇄ 255 | 0-100% |
| 44 | Pixel 14 Red | 000 ⇄ 255 | 0-100% |
| 45 | Pixel 14 Green | 000 ⇄ 255 | 0-100% |
| 46 | Pixel 14 Blue | 000 ⇄ 255 | 0-100% |
| 47 | Pixel 15 Red | 000 ⇄ 255 | 0-100% |
| 48 | Pixel 15 Green | 000 ⇄ 255 | 0-100% |
| 49 | Pixel 15 Blue | 000 ⇄ 255 | 0-100% |
| 50 | Pixel 16 Red | 000 ⇄ 255 | 0-100% |
| 51 | Pixel 16 Green | 000 ⇄ 255 | 0-100% |
| 52 | Pixel 16 Blue | 000 ⇄ 255 | 0-100% |
| 53 | Pixel 17 Red | 000 ⇄ 255 | 0-100% |

OPERATION

| Channel | Function | Value | Percent/Setting |
|---------|----------------|-----------|-----------------|
| 54 | Pixel 17 Green | 000 ⇔ 255 | 0-100% |
| 55 | Pixel 17 Blue | 000 ⇔ 255 | 0-100% |
| 56 | Pixel 18 Red | 000 ⇔ 255 | 0-100% |
| 57 | Pixel 18 Green | 000 ⇔ 255 | 0-100% |
| 58 | Pixel 18 Blue | 000 ⇔ 255 | 0-100% |
| 59 | Pixel 19 Red | 000 ⇔ 255 | 0-100% |
| 60 | Pixel 19 Green | 000 ⇔ 255 | 0-100% |
| 61 | Pixel 19 Blue | 000 ⇔ 255 | 0-100% |
| 62 | Pixel 20 Red | 000 ⇔ 255 | 0-100% |
| 63 | Pixel 20 Green | 000 ⇔ 255 | 0-100% |
| 64 | Pixel 20 Blue | 000 ⇔ 255 | 0-100% |
| 65 | Pixel 21 Red | 000 ⇔ 255 | 0-100% |
| ... | ... | ... | ... |
| 125 | Pixel 41 Red | 000 ⇔ 255 | 0-100% |
| ... | ... | ... | ... |
| 185 | Pixel 61 Red | 000 ⇔ 255 | 0-100% |

Configuration (Standalone)

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



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.

Control Mode

To select the control mode for the Festoon 2 RGB, follow the instructions below:

1. Press **<MENU>** repeatedly until **Control** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select either **DMX, Music, Auto, Manual, or Preset**.
4. Press **<ENTER>** to confirm.

Static Colors

To select a static color for the Festoon 2 RGB, do the following:

1. Press **<MENU>** repeatedly until **Custom** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to choose a static color **C-01–C-19**.
4. Press **<ENTER>** to confirm.

Automatic Programs

To run the Festoon 2 RGB in automatic mode, follow the instructions below:

1. Press **<MENU>** repeatedly until **Program** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select from the 38 auto programs (**P-01–P-38**).
4. Press **<ENTER>** to make your selection.
5. Use **<UP>** or **<DOWN>** to adjust the speed from slow to fast (**Sp:000–100**).
6. Press **<ENTER>** to confirm.

Sound Mode Sensitivity

To lower or heighten the sensitivity of the sound active mode, do the following:

1. Press **<MENU>** repeatedly until **Music** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to adjust the sensitivity from low to high **000–100**.
4. Press **<ENTER>**.

Manual Color Mixing

To manually adjust a static color, follow the instructions below:

1. Press **<MENU>** repeatedly until **Manual** shows on the display.
2. Press **<ENTER>**, **Color** should appear on the display.
3. Press **<ENTER>** to cycle through the following options:
 - **Red**
 - **Green**
 - **Blue**
4. Press **<ENTER>** to select an option.
5. Use **<UP>** or **<DOWN>** to increase or decrease the selected value, from **000–255**.
6. Repeat steps 3–5 for each color to set as desired.

Dimmer Curve

To set the dimmer curve, do the following:

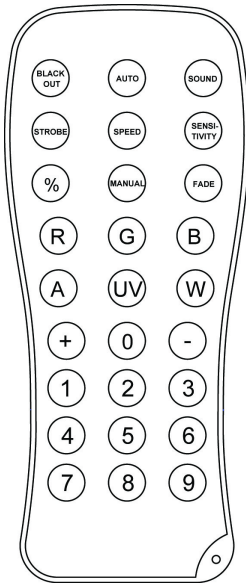
1. Press **<MENU>** repeatedly until **Dim Curve** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select either **OFF, Curve1, Curve2, or Curve3** (dimming speed, slow to fast).
4. Press **<ENTER>** to confirm.

IRC-6 Infrared Remote Control

The Festoon 2 RGB is compatible with the IRC-6 infrared remote control from Chauvet DJ. To activate IR mode, follow the instructions below:

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

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 **<R>** (red), **<G>** (green), or **** (blue), to choose your color.
3. Press **<+>** or **<->** to increase or decrease the percentage of each color.

Miscellaneous Operation

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.



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.

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: Controller

| LENGTH | WIDTH | HEIGHT | WEIGHT |
|------------------|---------------|--------------|-----------------|
| 7.25 in (184 mm) | 8 in (203 mm) | 2 in (49 mm) | 3.6 lb (1.4 kg) |

Note: Dimensions in inches rounded to the nearest hundredth.

Power

| POWER SUPPLY TYPE | RANGE | VOLTAGE SELECTION |
|----------------------------------------------|--------------------------|-------------------|
| Switching (internal) | 100 to 240 VAC, 50/60 Hz | Auto-ranging |
| PARAMETER | 120 V, 60 Hz | 230 V, 50 Hz |
| Operating Current and Consumption (20 bulbs) | 42 W, 0.3 A | 47 W, 0.2 A |
| Operating Current and Consumption (40 bulbs) | 77 W, 0.7 A | 78 W, 0.3 A |
| Operating Current and Consumption (60 bulbs) | 107 W, 0.9 A | 108 W, 0.5 A |
| Fuse | T2 A, 250 V | T2 A, 250 V |
| POWER I/O | U.S./WORLDWIDE | UK/EUROPE |
| Power input connector | IEC | IEC |
| Power output connector | Edison | IEC |
| Power Cord plug | Edison (US) | Local Plug |

Light Source

| TYPE | POWER | CURRENT | COLOR | LIFESPAN |
|------------|-------|---------|---------------|-------------------------|
| 5 SMD LEDs | 0.1 W | 50 mA | tri-color RGB | 50,000 hours (per bulb) |

Photometrics

| PARAMETER | VALUE |
|----------------|------------|
| Strobe Rate | 0 to 10 Hz |
| Coverage Angle | 360° |

Thermal

| MAXIMUM EXTERNAL TEMPERATURE | COOLING SYSTEM | IP RATING |
|------------------------------|----------------|-----------|
| 104 °F (40 °C) | Convection | IP54 |

DMX

| I/O CONNECTOR | CHANNEL RANGE |
|---------------|------------------------|
| 3-pin XLR | 3, 9, Pixel, or Pixel+ |

Ordering

| PRODUCT NAME | ITEM CODE | UPC NUMBER |
|---------------|-----------|--------------|
| Festoon 2 RGB | 09091690 | 781462220389 |



RETURNS

In case you need to get support or return a product:

- If you are located in the US, contact Chauvet World Headquarters.
- If you are located in the UK or Ireland, contact Chauvet Europe Ltd.
- If you are located in Benelux, contact Chauvet Europe BVBA.
- If you are located in France, contact Chauvet France.
- If you are located in Germany, contact Chauvet Germany.
- If you are located in Mexico, contact Chauvet Mexico.
- If you are located in any other country, DO NOT contact Chauvet. Instead, contact your local distributor. See www.chauvetdj.com for distributors outside the U.S., UK, Ireland, Benelux, France, Germany, or Mexico.



If you are located outside the US, UK, Ireland, Benelux, France, Germany, or Mexico, contact your distributor of record and follow their instructions on how to return Chauvet products to them. Visit our website www.chauvetdj.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.

To submit a service request online, go to www.chauvetdj.com/service-request.

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

| General Information | Technical Support |
|--------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Chauvet World Headquarters | |
| Address: 5200 NW 108th Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084 | Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website: www.chauvetdj.com |
| 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 | Email: UKtech@chauvetlighting.eu Website: www.chauvetdj.eu |
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| Chauvet Mexico | |
| Address: Av. de las Partidas 34 - 3B (Entrance by Calle 2) Zona Industrial Lerma Lerma, Edo. de México, CP 52000 Voice: +52 (728) 690-2010 | Email: servicio@chauvet.com.mx Website: www.chauvetdj.mx |

Visit the applicable website above to verify our contact information and instructions to request support. Outside the U.S., U.K., Ireland, Benelux, France, Germany, or Mexico, contact the dealer of record.