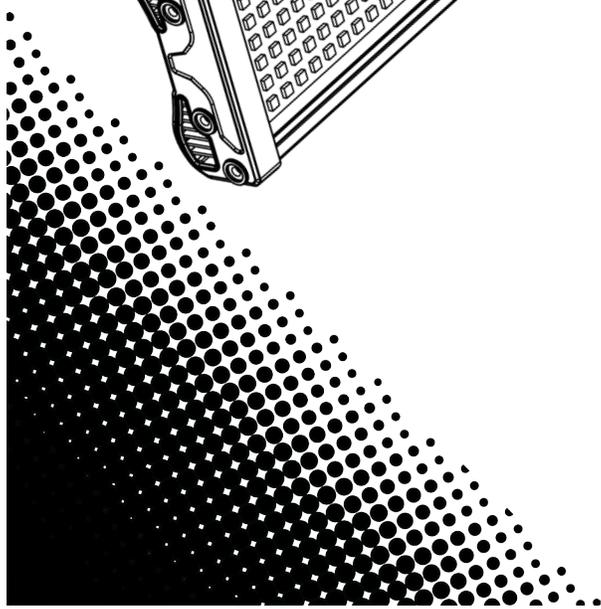
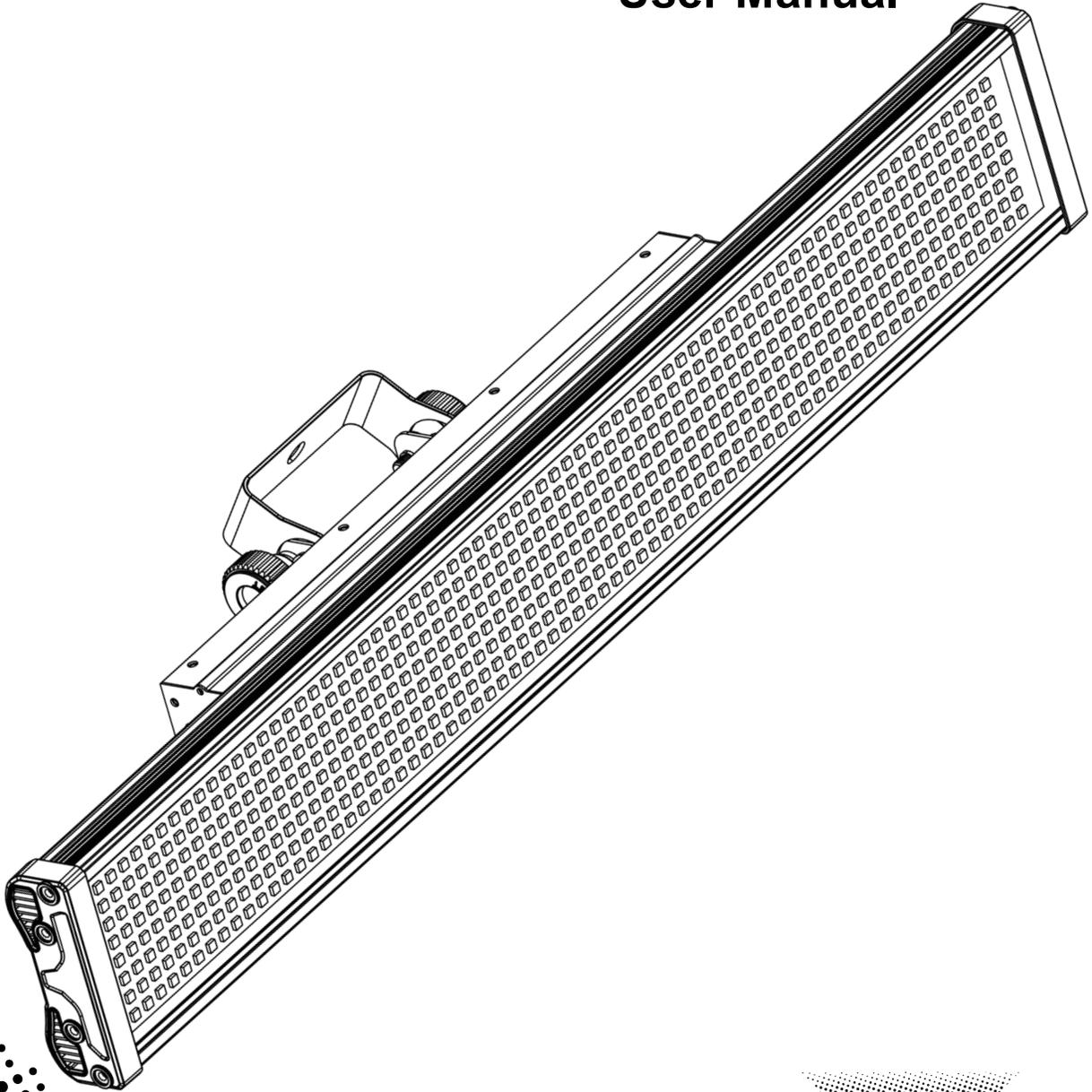


COLORbar™ SMD

User Manual



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

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1. BEFORE YOU BEGIN

What Is Included

- COLORbar™ SMD
- Locking Power Cord
- 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
	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.

Document Information

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.

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

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Author	Date	Editor	Date
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Product at a Glance

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

Safety Notes

Please read the following Safety Notes carefully before working with the product. The Notes include important safety information about installation, usage, and maintenance.



- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect the product from the power source before cleaning 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.



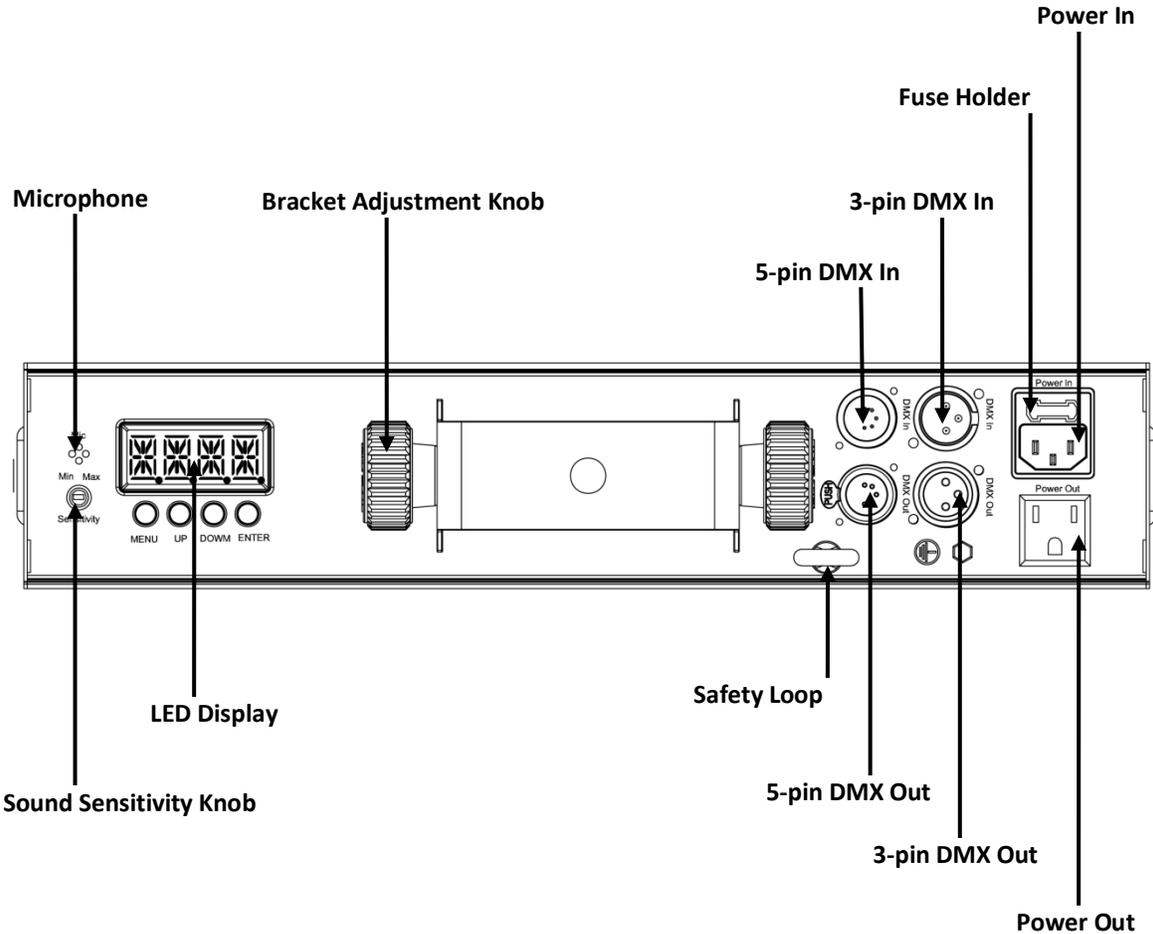
- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- The product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose the product to rain or moisture.
- Always install 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 or the handles.
- The maximum ambient temperature (Ta) is 104° F (40° C). Do not operate the product at higher temperatures.
- In the event of a serious operating problem, stop using the product immediately.
- Never try to repair the product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.



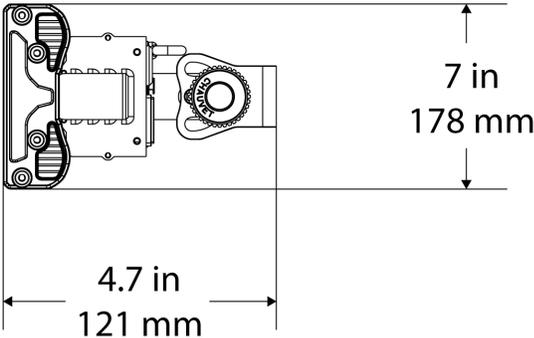
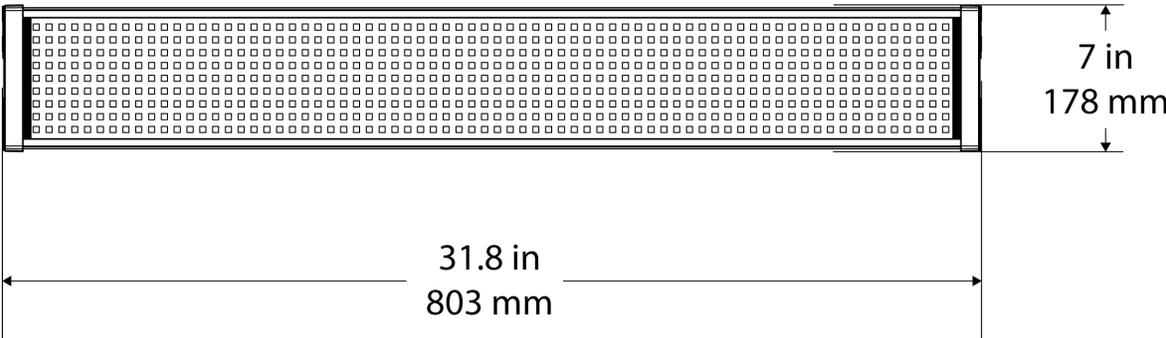
- Keep this User Manual for future use. If you sell the product to another user, be sure that they also receive this document.

2. INTRODUCTION

Product Overview



Product Dimensions



3. SETUP

AC Power The COLORbar™ SMD has an auto-ranging power supply and it can work with an input voltage range of 100~240 VAC, 50/60 Hz.

To determine the product's power requirements (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or refer to the product's specifications chart. The listed current rating indicates the product's average current draw under normal conditions.



Always connect the product to a protected circuit (circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.



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.

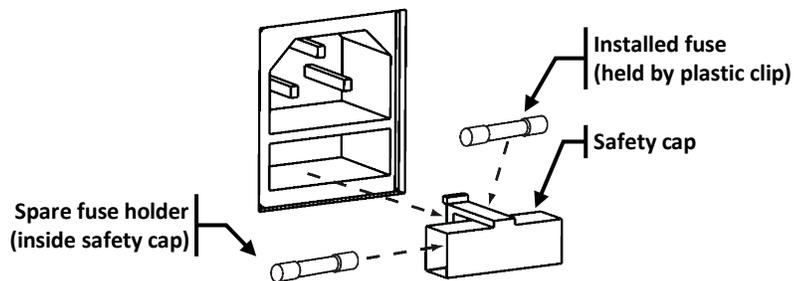
Fuse Replacement

Follow the instructions below to change the fuse, if necessary.



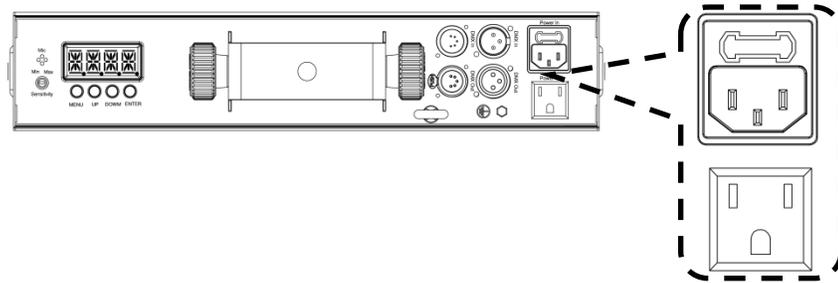
Disconnect the product from the power outlet before replacing the fuse.

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.

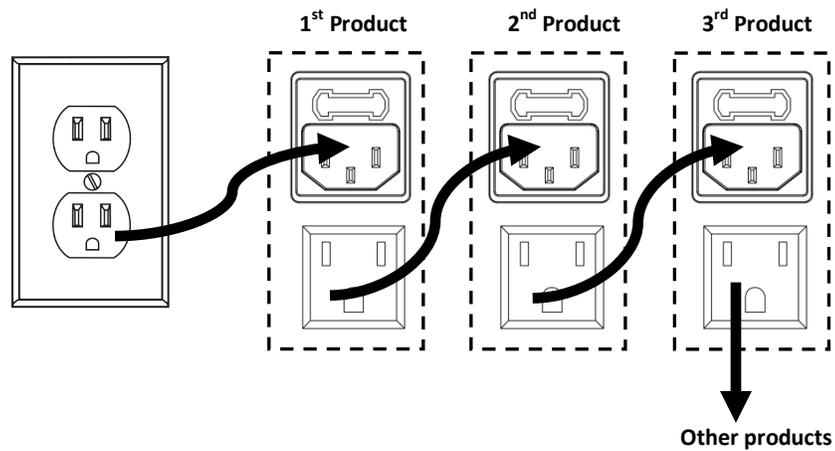


The product does not ship with a spare fuse; however, the safety cap has room for a spare.

Power Linking The product provides power linking via the IEC outlet located in the back of the unit. Please see the diagram below for further explanation.



Power Linking Diagram



You can power link up to three (3) COLORbar™ SMD units @ 120 VAC or up to six (6) COLORbar™ SMD units @ 230 VAC.

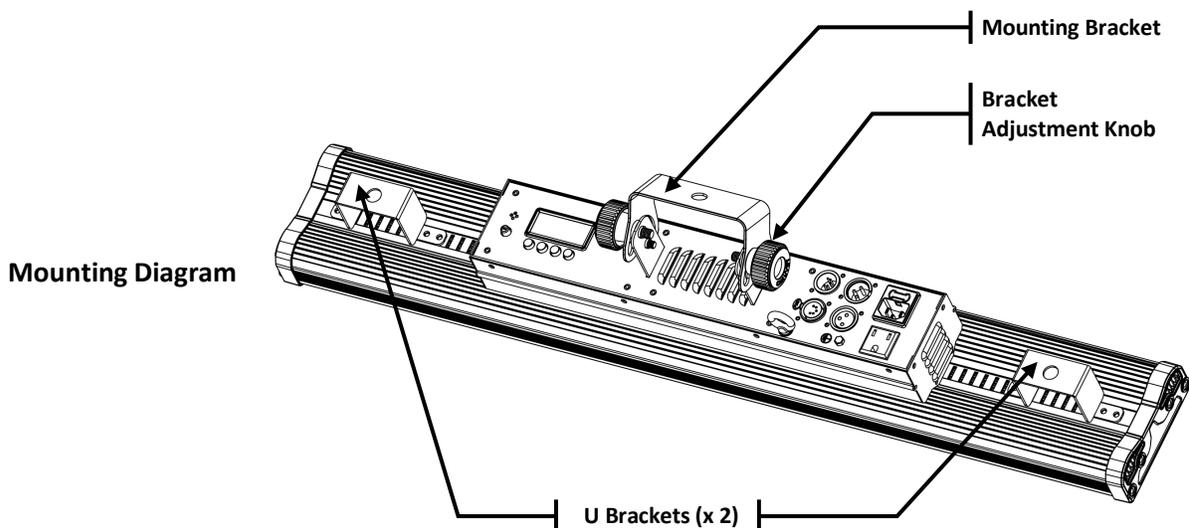


The power linking diagram shown above corresponds to the North American version of the product **ONLY!** If using the product in other markets, you must consult with the local CHAUVET® distributor as power linking connectors and requirements may differ in your country or region.

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

Orientation The COLORbar™ SMD 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](#) section of this manual for weight information.
 - When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
 - When rigging the product onto a truss, you should use a mounting clamp of appropriate weight capacity. The bracket has a 13-mm hole, which is appropriate for this purpose.
 - When power linking multiple products, you must always consider the length of the power linking cable and mount the products close enough for the cable to reach.
 - The bracket adjustment knobs allow for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knobs manually. Using tools could damage the knobs.



4. OPERATION

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

Mode	Programming Steps	Description	
Static Colors	C--	C1	Red
		C2	Green
		C3	Blue
		C4	Cyan
		C5	Magenta
		C6	Yellow
		C7	White
Auto Programs	P--	P1	7-Color Switching
		P2	7-Color Fading
		P3	3-Color Switching
		P4	3-Color Fading
		P5	Chase program
		P6	Sound-Active Chase program
Program Speed	S--	S001-S100	Selects auto program speed
Custom Color Mixing	U--	R000-R100	Red
		G000-G100	Green
		b000-b100	Blue
DMX Personalities	3-CH	d001-d512	Selects DMX starting address
	7-CH		
	24CH		

Configuration (DMX)

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

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

DMX Personalities and Starting Address

The COLORbar™ SMD has three DMX personalities, from a 3-channel mode for basic control to a 24-channel mode with more advanced control over the lights.

The COLORbar™ SMD uses up to 24 DMX channels in its 24-channel DMX mode, which defines the highest configurable address to **489**.

When selecting a starting DMX address, always consider the number of DMX channels the selected DMX mode uses. If you choose a starting address that is too high, you could restrict the access to some of the product's channels.

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

To select the DMX personality, do the following:

1. Press **<MENU>** repeatedly until **3-CH**, **7-CH**, or **24CH** shows on the display.
2. Press **<ENTER>** to choose your DMX personality when it appears on the display.

To then choose your starting address:

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

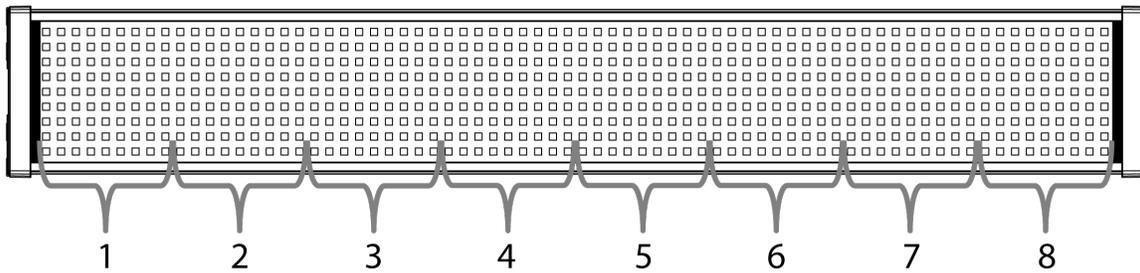
DMX Channel Assignments and Values

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

7-CH	Channel	Function	Value	Setting
	1	Red	000 ⇔ 255	0~100%
	2	Green	000 ⇔ 255	0~100%
	3	Blue	000 ⇔ 255	0~100%
	4	Color Macros	000 ⇔ 255	No function
			000 ⇔ 255	Color Macros
	5	Speed	000 ⇔ 255	Speed (slow to fast) (when CH.6 is 026~225)
		Strobe	000 ⇔ 255	No function
			000 ⇔ 255	0~30 Hz
	6	Auto Programs	000 ⇔ 025	No Function
			026 ⇔ 050	Fading 0~100%
			051 ⇔ 075	Fading 100%~0
			076 ⇔ 100	Fading 100%~0~100%
			101 ⇔ 125	Auto program P1
			126 ⇔ 150	Auto program P2
			151 ⇔ 175	Auto program P3
			176 ⇔ 200	Auto program P4
	201 ⇔ 225	Auto program P5		
	226 ⇔ 255	Sound-Active mode (Auto program P6)		
	7	Dimmer	000 ⇔ 255	0~100%

24-CH

Channel	Function	Value	Setting	Section
1	Red	000 ⇄ 255	0~100%	1
2	Green	000 ⇄ 255	0~100%	
3	Blue	000 ⇄ 255	0~100%	
4	Red	000 ⇄ 255	0~100%	2
5	Green	000 ⇄ 255	0~100%	
6	Blue	000 ⇄ 255	0~100%	
7	Red	000 ⇄ 255	0~100%	3
8	Green	000 ⇄ 255	0~100%	
9	Blue	000 ⇄ 255	0~100%	
10	Red	000 ⇄ 255	0~100%	4
11	Green	000 ⇄ 255	0~100%	
12	Blue	000 ⇄ 255	0~100%	
13	Red	000 ⇄ 255	0~100%	5
14	Green	000 ⇄ 255	0~100%	
15	Blue	000 ⇄ 255	0~100%	
16	Red	000 ⇄ 255	0~100%	6
17	Green	000 ⇄ 255	0~100%	
18	Blue	000 ⇄ 255	0~100%	
19	Red	000 ⇄ 255	0~100%	7
20	Green	000 ⇄ 255	0~100%	
21	Blue	000 ⇄ 255	0~100%	
22	Red	000 ⇄ 255	0~100%	8
23	Green	000 ⇄ 255	0~100%	
24	Blue	000 ⇄ 255	0~100%	



Configuration (Standalone)

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

1. Connect the product to a suitable power outlet.
2. Turn the product on.



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.

Static Color Mode

To enable the Static Color Mode, do the following:

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

Automatic Mode

To enable the Automatic Mode, follow the instructions below:

1. Press **<MENU>** repeatedly until **P--** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to choose your auto program (**P1-P7**).
4. Press **<ENTER>**.

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

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

Custom Static Color Mode

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

1. Press **<MENU>** repeatedly until **U--** shows on the display.
2. Press **<ENTER>**.
3. Press **<UP>** or **<DOWN>** to choose between colors (**R--**, **G--**, **b--**).
4. Press **<ENTER>**.
5. Press **<UP>** or **<DOWN>** to choose the intensity of the color (**000-100**).
6. Repeat the steps to mix additional colors to create the color you need.

Master/Slave Mode

The Master/Slave mode allows a single COLORbar™ SMD unit (the “master”) to control the actions of one or more COLORbar™ SMD units (the “slaves”) without the need of a DMX controller. The master unit will be set to operate in either Automatic or Sound Active mode, while the slave units will be set to operate in Slave Mode. Once set and connected, the slave units will operate in unison with the master unit.

Configure the units as indicated below.

Slave units:

1. Press **<MODE>** repeatedly until **d 1** shows on the display.
2. Press **<ENTER>** to accept.
3. Set the DMX address to **001**.
4. Connect the DMX input of the first slave unit to the DMX output of the master unit.
5. Connect the DMX input of the subsequent slave units to the DMX output of the previous slave unit.
6. Finish setting and connecting all the slave units.

Master unit:

1. Set the master unit to operate in either Automatic or Sound mode.
2. Make the master unit the first unit in the DMX daisy chain.



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

5. TECHNICAL INFORMATION

Product Maintenance

Dust build-up reduces light output performance and can cause overheating. This can lead to reduction of the light source's life. To maintain optimum performance and minimize wear, you should clean your lighting products at least twice a month. However, be aware that usage and environmental conditions could be contributing factors to increase the cleaning frequency.

To clean the product, follow the instructions below:

- Unplug the product from power.
- Wait until the product is cold.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surface/vents.
- Clean all transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
- Softly wipe any dirt or grime to the outside edges of the transparent surface.
- 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
	31.8 in (803 mm)	4.7 in (121 mm)	7 in (178 mm)	12 lbs (5.4 kg)
Note: Dimensions in inches rounded to the nearest decimal digit.				
Power	Power Supply Type	Range	Voltage Selection	
	Switching (internal)	100~240 V, 50/60 Hz	Auto-ranging	
	Parameter	120 V, 60 Hz	230 V, 50 Hz	
	Consumption	300 W	292 W	
	Operating	2.3 A	1.3 A	
Power I/O	Power I/O	US/Worldwide	UK/Europe	
	Power input connector	IEC	IEC	
	Power output connector	Edison	IEC	
Light Source	Type	Lifespan		
	SMD LED	50,000 hours		
	Color	Quantity	Current	
Photo Optic	Tri-color	648	20 mA x 3	
	Parameter			
	Illuminance @ 2 m	328 lx		
	Strobe Rate	0~30 Hz		
	Beam angle	67°		
Thermal	Field angle	110°		
	Viewing angle	120°		
DMX	Maximum External Temp.	Cooling System		
	104° F (40° C)	Convection		
Ordering	I/O Connectors	Connector Type	Channel Range	
	3-pin and 5-pin XLR	Sockets	3, 7, 24	
Ordering	Product Name	Item Code	Item Number	
	COLORbar™ SMD	03030478	COLORBARSM	

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®. Instead, contact your distributor of record. Refer to our website for contact details of distributors outside the U.S., United Kingdom, or Ireland.

Contact Us

World Headquarters

CHAUVET®

General Information

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

Technical Support

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

World Wide Web

www.chauvetlighting.com

United Kingdom & Ireland

CHAUVET® Europe Ltd.

General Information

Address: Unit 1C
Brookhill Road Industrial Estate
Pinxton, Nottingham, UK
NG16 6NT
Voice: +44 (0)1773 511115
Fax: +44 (0)1773 511110

Technical Support

Email: uktech@chauvetlighting.com

World Wide Web

www.chauvetlighting.co.uk



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® Tech Support office and request a Return Merchandise Authorization (RMA) number before shipping the product. Be prepared to provide the model number, serial number, and a brief description of the cause for the return.

You must send the merchandise prepaid, in its original box, and with its original packing and accessories. CHAUVET® will not issue call tags.

Clearly label the package with the RMA number. CHAUVET® will refuse any product returned without an RMA number.



Write the RMA number on a properly affixed label. DO NOT write the RMA number directly on the box.

Before sending the product, clearly write the following information on a piece of paper and place it inside the box:

- Your name
- Your address
- Your phone number
- The RMA number
- A brief description of the problem

Be sure to pack the product properly. Any shipping damage resulting from inadequate packaging will be your responsibility. FedEx packing or double-boxing are recommended.



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