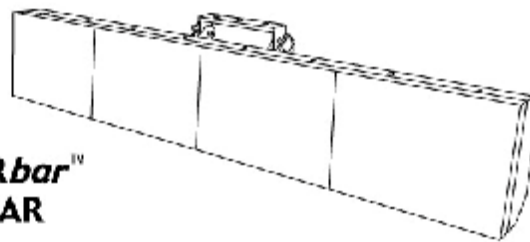
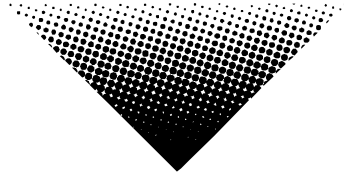


# LED-BAR COLORbar™

USER MANUAL



**COLORbar™**  
**LED-BAR**



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# Table of Content

<b>BEFORE YOU BEGIN</b> .....	<b>3</b>
WHAT IS INCLUDED .....	3
UNPACKING INSTRUCTIONS .....	3
AC POWER .....	3
SAFETY INSTRUCTIONS .....	3
<b>INTRODUCTION</b> .....	<b>4</b>
FEATURES .....	4
DMX CHANNEL SUMMARY .....	4
PRODUCT OVERVIEW .....	5
<b>SETUP</b> .....	<b>6</b>
POWER .....	6
MOUNTING .....	6
<b>OPERATING INSTRUCTIONS</b> .....	<b>7</b>
CONTROL MENU FUNCTIONS .....	7
APPLYING CHANGES TO FUNCTIONS .....	7
MASTER/SLAVE & STAND ALONE MODES .....	7
Program Control Options .....	8
Daisy Chain Connection .....	8
DMX CONTROL MODE .....	9
Setting the DMX address .....	9
<b>APPENDIX</b> .....	<b>10</b>
DMX PRIMER .....	10
Fixture Linking .....	10
DMX CHANNEL VALUES .....	11
17 Channel Mode .....	11
5 Channel Mode .....	11
6 Channel Mode (Auto & Sound Active) .....	12
RETURNS PROCEDURE .....	12
CLAIMS .....	12
TECHNICAL SPECIFICATIONS .....	13
TECHNICAL SUPPORT .....	13

# BEFORE YOU BEGIN

## What is included

- 1 x LED-BAR COLORbar™
- Warranty Card
- Users Manual

## Unpacking Instructions

Immediately upon receiving a product, carefully unpack the carton, check the contents to ensure that all parts are present, and have been received in good condition. Notify the shipper immediately and retain packing material for inspection if any parts appear damaged from shipping or the carton itself shows signs of mishandling. Save the carton and all packing materials. In the event that a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

## AC Power

To determine the power requirements for a particular product, see the label affixed to the back plate of the product or refer to the product's specifications chart. A product's listed current rating is its average current draw under normal conditions. All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch. Before applying power, check that the source voltage matches the product's requirement. Check the product or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

AC Voltage Switch Example



### **Warning!**

***If applicable, verify that the power select switch on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.***

## Safety Instructions



Please read these instructions carefully, which includes important information about the installation, usage and maintenance?



- Please keep this User Guide for future consultation. If you sell the unit to another user, be sure that they also receive this instruction booklet.
- Always make sure that you are connecting to the proper voltage and that the line voltage you are connecting to is not higher than that stated on decal or rear panel of the fixture.
- This product is intended for indoor use only!
- To prevent risk of fire or shock, do not expose fixture to rain or moisture. Make sure there are no flammable materials close to the unit while operating.
- The unit must be installed in a location with adequate ventilation, at least 50cm from adjacent surfaces. Be sure that no ventilation slots are blocked.
- Always disconnect from power source before servicing or replacing lamp or fuse and be sure to replace with same lamp source.
- Secure fixture to fastening device using a safety chain. Never carry the fixture solely by its head. Use its carrying handles.
- Maximum ambient temperature is  $T_a: 40^\circ$ . Do not operate fixture at temperatures higher than this.
- In the event of serious operating problem, stop using the unit immediately. Never try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.
- Don't connect the device to a dimmer pack.
- Make sure power cord is never crimped or damaged.
- Never disconnect power cord by pulling or tugging on the cord.
- Avoid direct eye exposure to lamp while it is on.

### **Caution!**

***There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact CHAUVET.***

# INTRODUCTION

## Features

### CONTROL FEATURES

- 5-17 channel DMX-512 LED panel system
- Operating modes
  - 17 channel mode: 4 sections of RGB mix control
  - 5 channel mode: RGB mix control of all sections
  - 6 channel mode: Automatic - Adjust or change; program, color, speed and fade
  - 6 channel mode: Sound Active - Adjust or change; program, color, speed and fade

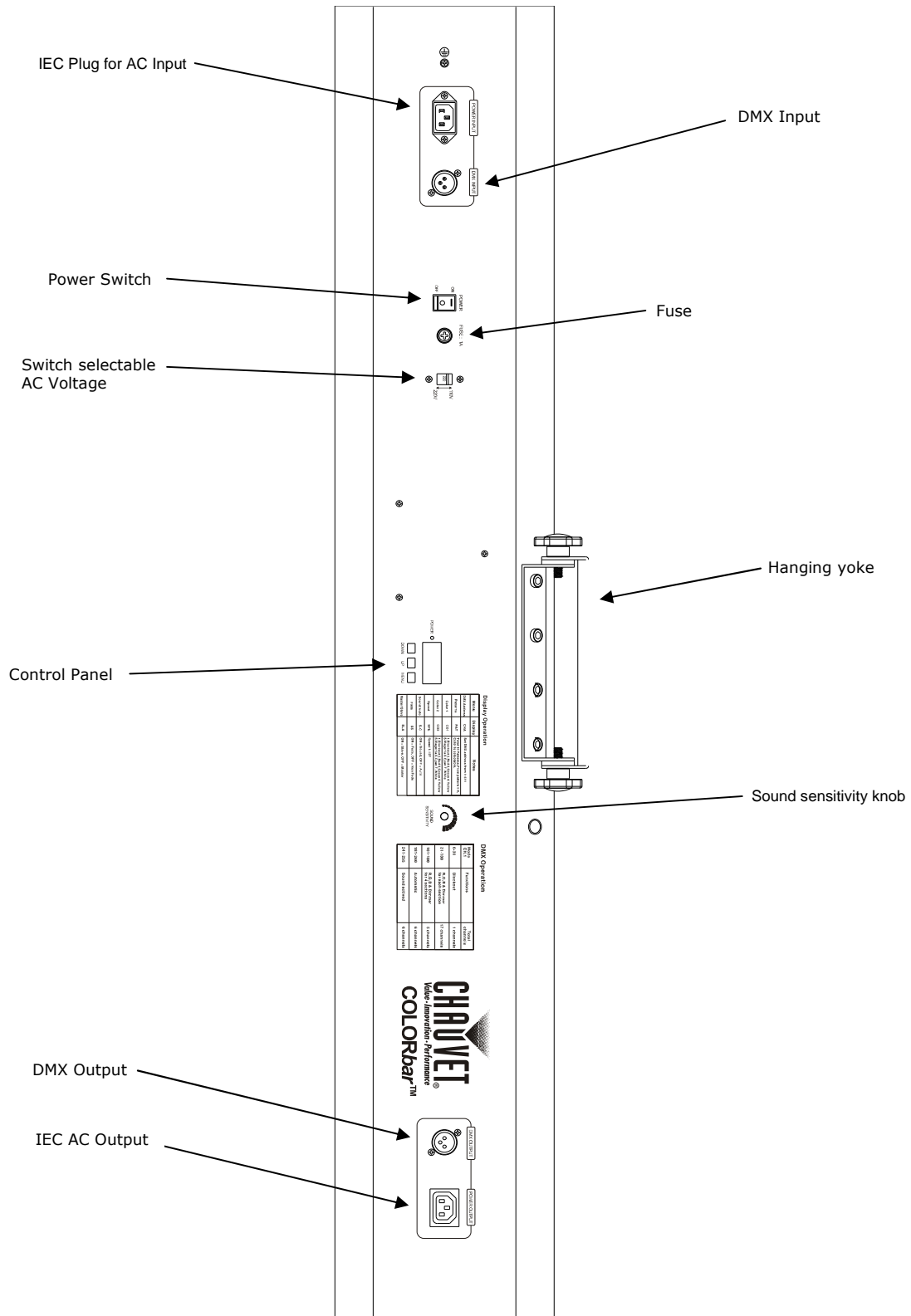
### FEATURES

- 96 LEDs total in 4 panels, 24 LEDs per panel surface
  - Red (32), Green (32) and Blue (32)
- Ultra bright LEDs
- RGB color mixing
- Built in color change programs
- Low power consumption
- Up to 100,000-hour LED life span
- Master/Slave mode

## DMX Channel Summary

17 Channel Configuration RGB Mix		5 Channel Configuration RGB Mix		6 Channel Configuration Auto Run & Sound Active	
CH	DESCRIPTION	CH	DESCRIPTION	CH	DESCRIPTION
1	Control Configurations	1	Control Configurations	1	Control Configurations
2	Red	2	All Red	2	Patterns
3	Green	3	All Green	3	Color 1
4	Blue	4	All Blue	4	Color 2
5	Dimmer	5	All Dimmer	5	Speed
6	Red			6	Fade
7	Green				
8	Blue				
9	Dimmer				
10	Red				
11	Green				
12	Blue				
13	Dimmer				
14	Red				
15	Green				
16	Blue				
17	Dimmer				

# Product Overview



# SETUP

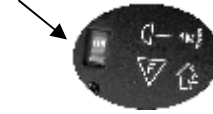
## Power

Your product is equipped with switch-selectable AC power setting.

### Warning!

**Verify that the power select switch on your unit matches the line voltage applied. All fixtures must be connected to circuits with a suitable Earth Ground.**

Slide switch up or down depending on your line voltage.



- To determine the power requirements for a particular fixture, see the label affixed to the back plate of the fixture or refer to the fixture's specifications chart.
- A fixture's listed current rating is its average current draw under normal conditions.
- All fixtures must be powered directly off a switched circuit and cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch.
- Before applying power to a fixture, check that the source voltage matches the fixture's requirement.
- All fixtures must be connected to circuits with a suitable Earth Ground.

## Power Cable Configuration

CABLE	PIN	INTERNATIONAL
BROWN	Live	L
BLUE	Neutral	N
YELLOW/GREEN	Earth	EG (Ground)

## Mounting

### Orientation

This fixture can be mounted on a truss using a clamp in any position.

Hanging Clamp



### Rigging

The fixture includes a mounting yoke to which 1 rigging clamp can be bolted.

1. Align the clamp screw with the center hole on the yoke and tighten.
2. Verify the structure can hold 10 times the weight of all to-be installed fixtures.
3. Adjust the angle on the yoke arm as necessary.

# OPERATING INSTRUCTIONS

The COLORbar™ is a DMX-512 controllable, full RGB color mix multi-panel led fixture made up of highly efficient and super bright leds. There are four led panels whose intensity can be controlled either individually or together allowing the creation of an unlimited range of colors.

The COLORbar™ can operate in Stand-Alone, Master/Slave and via DMX-512 control utilizing between 5 and 17 channels.

## Control Menu Functions

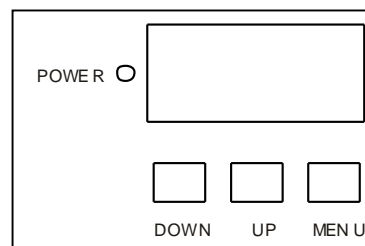
FUNCTION	DESCRIPTION
CHA	DMX channel addressing
PAT	Programs # 0 ~ 9, program 0 is a multi-color chase program 1 ~ 9 are 2-color chases and allows user selection of CO1 and CO2 colors
CO1	Color Selection: Range 0 ~ 7, refer to Color Table, applies to PAT: 1-9
CO2	Color Selection: Range 0 ~ 7, refer to Color Table, applies to PAT: 1-9
SPE	Speed of chase: 1 ~ 127
S-C	Sound Active: ON = Sound, OFF = Auto
SS	Cross Fade: ON = Fade, OFF = No Fade
SLA	ON = Slave, OFF = Master ( ON is necessary for DMX control)

## Color Tables

No.	0	1	2	3	4	5	6	7
Color	Blackout	Red	Green	Blue	Yellow	Magenta	Cyan	White

## Applying changes to Functions

1. Press the **[MENU]** button repeatedly until the display reads the menu function you wish to change.
2. Press the **[DOWN]** or **[UP]** buttons to toggle or scroll through values that pertain to that function.



## Master/Slave & Stand Alone Modes

The Master/Slave mode will allow you to link up to as many units you want in a daisy chain fashion. In this mode, the first unit in the daisy chain will automatically command all other units following.

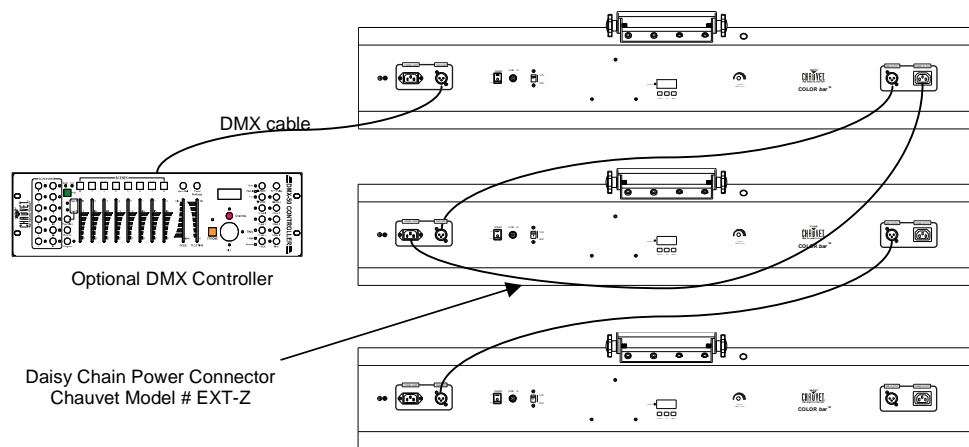
1. Connect all COLORbar™ units in a daisy chain configuration as described in the section following.
2. Master Unit:
  - a. Press the **[MENU]** button until the display reads **[SLA]**.
  - b. Use the **[UP]** or **[DOWN]** buttons to set the display to **[OFF]** for Master mode.
3. Slaves:
  - a. Press the **[MENU]** button until the display reads **[SLA]**.
  - b. Use the **[UP]** or **[DOWN]** buttons to set the display to **[OFF]** for Slave mode.  
(this should be the default setting)
4. You can also run the fixtures in an automatic stand-alone mode by simply setting all fixtures to run as master units.

## Program Control Options

In Master or Stand Alone modes several variables can be changed using the control panel to affect changes to the internal programs. You can choose from 10 preset program patterns. Pattern 0 is a fully automatic multi-colored chase program. The remaining patterns 1 ~ 9 are 2-color chases and the user can select alternating colors from the list of colors available in the Color Table. The speed of the running programs can be adjusted for all patterns unless in Sound Active mode. A cross fade function allows the gradual shifting of one color to the next during a program with color chase.

## Daisy Chain Connection

1. Connect the (male) 3 pin connector side of the DMX cable to the output (female) 3 pin connector of the first fixture.
2. Connect the end of the cable coming from the first fixture which will have a (female) 3 pin connector to the input connector of the next fixture consisting of a (male) 3 pin connector. Then, proceed to connect from the output as stated above to the input of the following fixture and so on.





## DMX Control Mode

Operating in a DMX Control mode environment gives the user the greatest flexibility when it comes to customizing or creating a show. In this mode you will be able to control each individual trait of the fixture and each fixture independently.

1. Enable DMX control by setting SLA to ON in the control panel.
2. Address each fixture accordingly using the CHA function.

### Setting the DMX address

This DMX mode enables the use of a universal DMX controller device. Each fixture requires a "start address" from 1 to 511. A fixture requiring one or more channels for control begins to read the data on the channel indicated by the start address. For example, a fixture that occupies or uses 7 channels of DMX and was addressed to start on DMX channel 100, would read data from channels: 100, 101, 102, 103, 104, 105 and 106. Choose start addresses so that the channels used do not overlap and notate the start address selected for future reference.

If this is your first time addressing a fixture using the DMX-512 control protocol than I suggest jumping to the Appendix Section and read the heading "DMX Primer". It contains very useful information that will help you understand its use.

1. Press the **[MENU]** button on the control panel until the display reads **[CH#]**.
2. Use the **[UP]** and **[DOWN]** buttons to increase or decrease channel values until the desired value is displayed.
3. Remember to set function **[SL#]** to ON in order to enable DMX control.

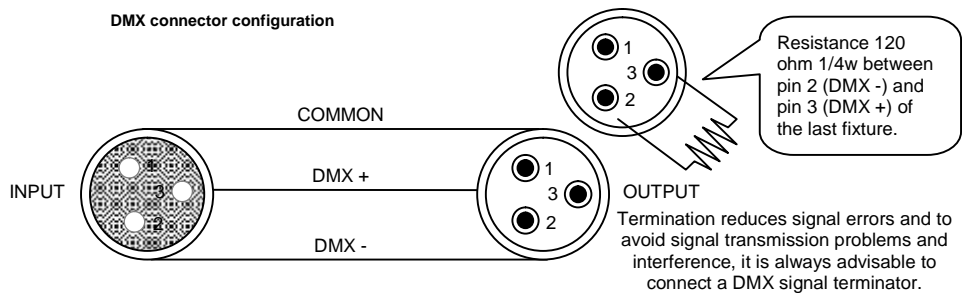
# APPENDIX

## DMX Primer

There are 512 channels in a DMX-512 connection. Channels may be assigned in any manner. A fixture capable of receiving DMX-512 will require one or a number of sequential channels. The user must assign a starting address on the fixture that indicates the first channel reserved in the controller. There are many different types of DMX controllable fixtures and they all may vary in the total number of channels required. Choosing a start address should be planned in advance. Channels should never overlap. If they do, this will result in erratic operation of the fixtures whose starting address is set incorrectly. You can however, control multiple fixtures of the same type using the same starting address as long as the intended result is that of unison movement or operation. In other words, the fixtures will be slaved together and all respond exactly the same.

DMX fixtures are designed to receive data through a serial Daisy Chain. A Daisy Chain connection is where the DATA OUT of one fixture connects to the DATA IN of the next fixture. The order in which the fixtures are connected is not important and has no effect on how a controller communicates to each fixture. Use an order that provides for the easiest and most direct cabling. Connect fixtures using shielded two conductor twisted pair cable with three pin XLR male to female connectors. The shield connection is pin 1, while pin 2 is Data Negative (S-) and pin 3 is Data positive (S+). CHAUVET carries 3-pin XLR DMX compliant cables, DMX-10 (33'), DMX-4.5 (15') and DMX-1.5 (5')

## Fixture Linking



### Note!

**If you use a controller with a 5 pin DMX output connector, you will need to use a 5 pin to 3 pin adapter. CHAUVET Model No: DMX5M. The chart below details a proper cable conversion:**

3 PIN TO 5 PIN CONVERSION CHART

Conductor	3 Pin Female (output)	5 Pin Male (Input)
Ground/Shield	Pin 1	Pin 1
Data ( - ) signal	Pin 2	Pin 2
Data ( + ) signal	Pin 3	Pin 3
Do not use		Do not use
Do not use		Do not use

## DMX Channel Values

### NOTE!

Enable DMX control by setting function SLA to “ON” in the control panel.

Channel 1 remains the same on all modes.

CHANNEL	VALUE	FUNCTION
1	000 ⇔ 030	<b>Blackout &amp; DMX Channel Configurations</b> Blackout
	031 ⇔ 100	17 Channel Mode (RGB control of 4 sections)
	101 ⇔ 180	5 Channel Mode (RGB control of all sections)
	181 ⇔ 240	6 Channel Mode (Automatic run)
	241 ⇔ 255	6 Channel Mode (Sound Active)

### 17 Channel Mode

CHANNEL	VALUE	FUNCTION
2	000 ⇔ 255	Red: 0 > 100%
3	000 ⇔ 255	Green: 0 > 100%
4	000 ⇔ 255	Blue: 0 > 100%
5	000 ⇔ 255	Dimmer: 0 > 100%
6	000 ⇔ 255	Red: 0 > 100%
7	000 ⇔ 255	Green: 0 > 100%
8	000 ⇔ 255	Blue: 0 > 100%
9	000 ⇔ 255	Dimmer: 0 > 100%
10	000 ⇔ 255	Red: 0 > 100%
11	000 ⇔ 255	Green: 0 > 100%
12	000 ⇔ 255	Blue: 0 > 100%
13	000 ⇔ 255	Dimmer: 0 > 100%
14	000 ⇔ 255	Red: 0 > 100%
15	000 ⇔ 255	Green: 0 > 100%
16	000 ⇔ 255	Blue: 0 > 100%
17	000 ⇔ 255	Dimmer: 0 > 100%

### 5 Channel Mode

CHANNEL	VALUE	FUNCTION
2	000 ⇔ 255	Red: 0 > 100%
3	000 ⇔ 255	Green: 0 > 100%
4	000 ⇔ 255	Blue: 0 > 100%
5	000 ⇔ 255	Dimmer: 0 > 100%

## 6 Channel Mode (Auto & Sound Active)

CHANNEL	VALUE	FUNCTION
2	000 ⇔ 027	<b>Patterns</b>
	028 ⇔ 055	Pattern 0
	056 ⇔ 083	Pattern 1
	084 ⇔ 111	Pattern 2
	112 ⇔ 139	Pattern 3
	140 ⇔ 167	Pattern 4
	168 ⇔ 195	Pattern 5
	196 ⇔ 223	Pattern 6
	224 ⇔ 251	Pattern 7
	252 ⇔ 255	Pattern 8
3	000 ⇔ 035	<b>COL1 (Color)</b>
	036 ⇔ 071	Blackout
	072 ⇔ 107	Red
	108 ⇔ 143	Green
	144 ⇔ 179	Blue
	180 ⇔ 215	Yellow
	216 ⇔ 251	Magenta
	252 ⇔ 255	Cyan
4	000 ⇔ 035	<b>COL2 (Color)</b>
	036 ⇔ 071	Blackout
	072 ⇔ 107	Red
	108 ⇔ 143	Green
	144 ⇔ 179	Blue
	180 ⇔ 215	Yellow
	216 ⇔ 251	Magenta
	252 ⇔ 255	Cyan
5	000 ⇔ 255	<b>Speed</b> Slow > Fast
6	000 ⇔ 127	<b>Fade</b>
	128 ⇔ 255	On Off

## Returns Procedure

Returned merchandise must be sent prepaid and in the original packing, call tags will not be issued. Package must be clearly labeled with a Return Merchandise Authorization Number (RA #). Products returned without an RA # will be refused. Call CHAUVET and request RA # prior to shipping the fixture. Be prepared to provide the model number, serial number and a brief description of the cause for the return. Be sure to properly pack fixture, any shipping damage resulting from inadequate packaging is the customer's responsibility. CHAUVET reserves the right to use its own discretion to repair or replace product(s). As a suggestion, proper UPS packing or double-boxing is always a safe method to use.

## Claims

Damage incurred in shipping is the responsibility of the shipper; therefore the damage must be reported to the carrier upon receipt of merchandise. It is the customer's responsibility to notify and submit claims with the shipper in the event that a fixture is damaged due to shipping. Any other claim for items such as missing component/part, damage not related to shipping, and concealed damage, must be made within seven (7) days of receiving merchandise.

## Technical Specifications

### WEIGHT & DIMENSIONS

Length..... 1200 mm (47.2 in)  
 Width..... 200 mm (8.0 in)  
 Height..... 115 mm (4.5 in)  
 Weight..... 6.8 Kgs (15 lbs)

### POWER

Switch-selectable power setting..... 115V 60 Hz or 230V 50 Hz  
 AC input..... IEC 60320 C14  
 European version..... 240V 50 Hz  
 Current draw..... (peak <15W @ 120V)

### FUSE

Main..... 20mm Glass 1A Fast Blow

### CONTROL & PROGRAMMING

Data input..... locking 3-pin XLR male socket  
 Data output..... locking 3-pin XLR female socket  
 Data pin configuration..... pin 1 shield, pin 2 (-), pin 3 (+)  
 Protocols..... DMX-512 USITT  
 DMX Channels..... 5 ~ 17

### ORDERING INFORMATION

COLORbar™..... LED-BAR

## Technical Support

Address: Service Dept.  
 3000 N 29th Ct, Hollywood, FL 33020 (U.S.A.)  
 Support (Email): [tech@chauvetlighting.com](mailto:tech@chauvetlighting.com)  
 Telephone: (954) 929-1115 - (Press 4)  
 Fax: (954) 929-5560 - (Attention: Service)  
 Website: <http://www.chauvetlighting.com>