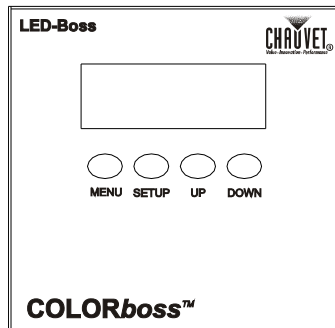


LED-BOSS COLORboss™

USER MANUAL



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BEFORE YOU BEGIN

What is included

- 1 x COLORboss™
- Users Manual
- Warranty Card

NOTICE

This controller will work only with the LED-PAR196 COLORsplash™ product.

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

- 4 channel DMX controlled (controller device)
- 7 independently selectable preset colors, 5 programmed chases adjustable in speed or flash rate, Auto mode and Sound Active
- Select up to 20 par cans in a program
- Speed, Flash or Chase control channel
- Chase speed control channel

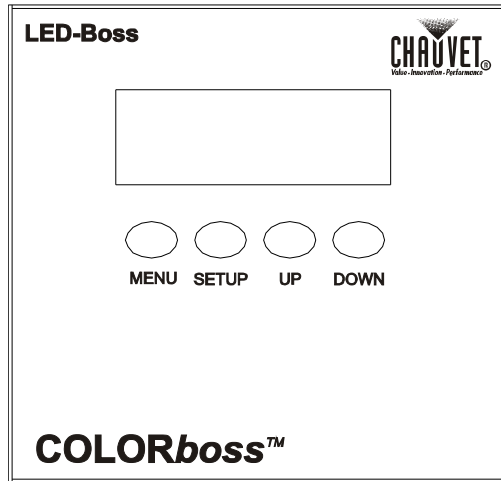
Features

- Built in Microphone
- Digital LCD display

DMX Channel Summary

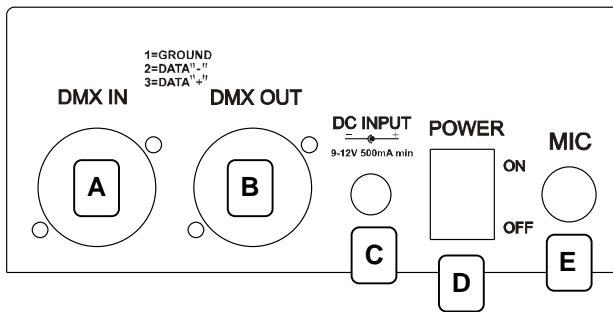
CHANNEL	FUNCTION
1	Programs
2	Range of Fixtures
3	Control Options
4	Chase Speed

Product Overview



SEGMENT BUTTONS

BUTTONS	
MENU	Used to navigate and select controller functions
SETUP	Enter menu selection
UP	Increase data values for menu options
DOWN	Decrease data values for menu options

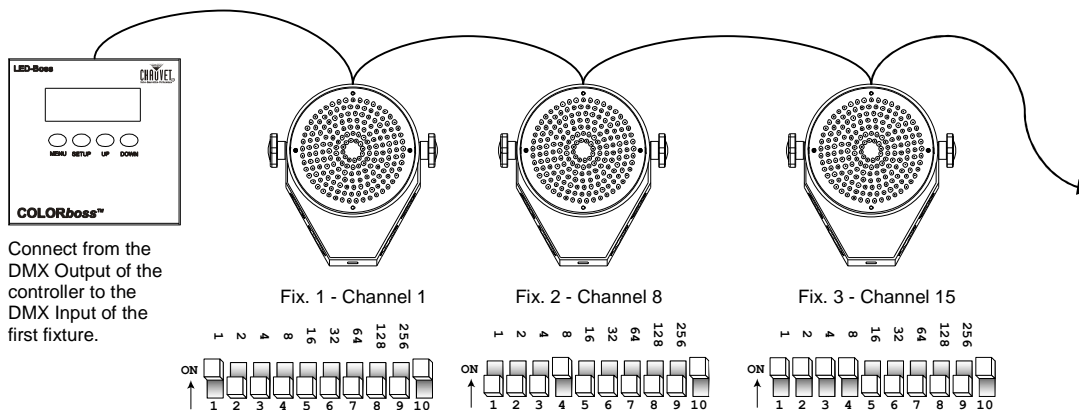


ITEM	DESCRIPTION
A	3-Pin female XLR DMX input connector
B	3-Pin male XLR DMX output connector
C	DC input
D	Power switch
E	Built in Microphone

SETUP

The setup of the par cans for control using the COLORboss™ is the same as if using a universal DMX controller. You will first have to form a 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 to the output as stated above to the input of the following fixture and so on.



DMX Setup & Addressing

1. Enable DMX control on the LED-PAR196 COLORsplash™ by setting on all fixtures, dipswitch # 10 to the ON position, and then address each fixture accordingly. Slow Flow chase programs were built on the control of 20 fixtures, in the controller these are referred to as "Part Amount". In order for the chase to operate correctly you must address the fixtures in 7 channel increments as shown on the table following.

STARTING DMX CHANNEL ADDRESS (PART AMOUNT)

Fixture	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
DMX Address	001	008	015	022	029	036	043	050	057	064	071	078	085	092	099	106	113	120	127	134

Setting the DMX address dipswitches

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.

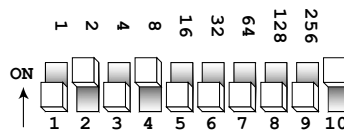
If this is your first time addressing a fixture using the DMX-512 control protocol than I suggest jumping to the Appendix Section and read the heading "DMX Primer". It contains very useful information that will help you understand its use.

Set the start address using the group of DIP switches located usually on bottom of the fixture. Each dip switch has an associated value. Adding the value of each switch in the ON position will provide the start address. Determining which switches to toggle ON given a specific start address can be accomplished in the following manner. By subtracting the largest switch value possible from the selected start address until zero is achieved.

EXAMPLE STARTING ADDRESS

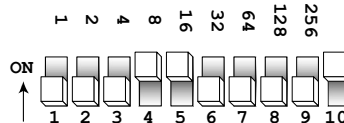
Address 10

Pin # 4 = 8
Pin # 2 = 2
Total = 10



Address 24

Pin # 5 = 16
Pin # 4 = 8
Total = 24



Resolving address using simple math.

Address 233

233 – (128) = 105, Turn ON Dip # 8
105 – (64) = 41, Turn ON Dip # 7
41 – (32) = 9, Turn ON Dip # 6
9 – (8) = 1, Turn ON Dip # 4
1 – (1) = 0, Turn ON Dip # 1

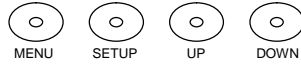
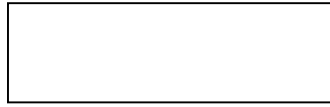
You will most likely use the first available number which maybe number 1. This number was selected for example purposes.

DIP SWITCH	(DMX VALUE)
1	1
2	2
3	4
4	8
5	16
6	32
7	64
8	128
9	256
10	DMX Enable

OPERATING INSTRUCTIONS

Control Panel

On the control panel you can set the controller on static colors, to run preset programs, to run by sound-activation or assign a starting DMX channel address to the controller.



[MENU] Returns to Main menu or step backward through functions

[SET UP] Enters menu selection

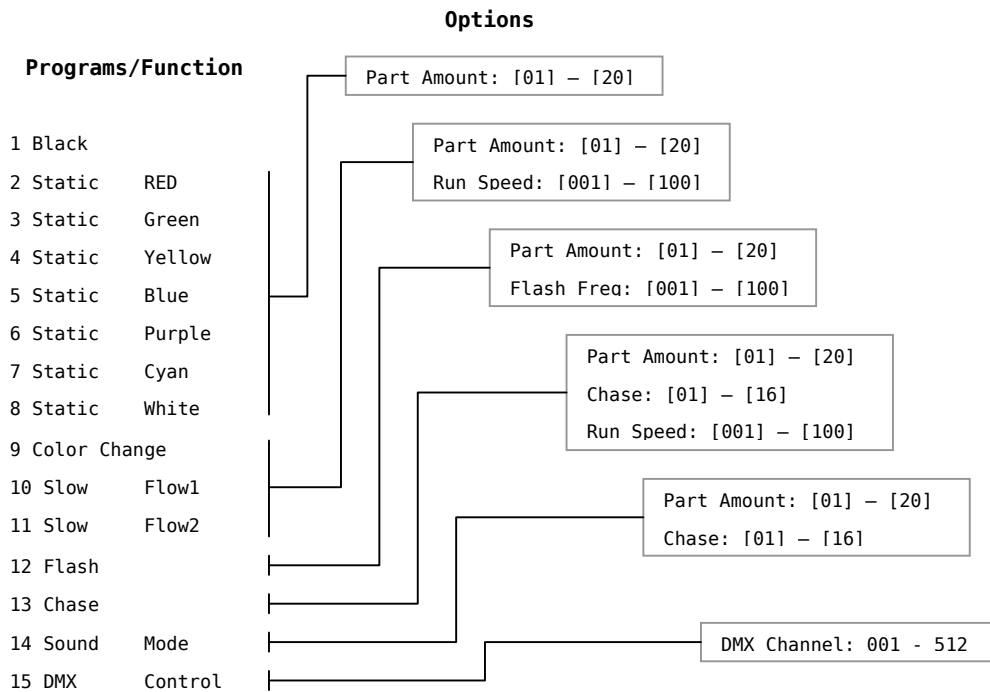
[UP] Steps backward through data values

[DOWN] Steps forward through data values

Manual Operation

1. Press the **MENU** button to select desired program. (see **Menu Diagram**)
2. Press **SETUP** button to toggle available options for that program. (Options listed in **Menu Diagram**)
3. Press **UP** or **DOWN** buttons to change values for the selected option.

Menu Diagram



{ Part Amount: } Defined

Part Amount refers to the number of par cans to activate on the controller. It is an accumulative selection not an individual selection. For example, you can select par 1 or 1-3, or 1-10 etc. With your channel fader on the console raised full, all 20 pars would become visible.

DMX Control Mode

The COLORboss™ will respond to 4 channels of DMX control. The same functions that are accessible manually are also accessible remotely using an external universal DMX controller. It is important to remember that when controlling the COLORsplash™ fixtures through the COLORboss™ you are no longer controlling the pars individually, only the COLORboss™ controller.

1. Press the **MENU** repeatedly until you reach "15 DMX Control".
2. Press **SETUP** button to enter mode.
3. Press **UP** or **DOWN** buttons to change the DMX starting address for the controller.
4. You must leave this menu selection on screen in order for this mode to remain active.

DMX Channel Values

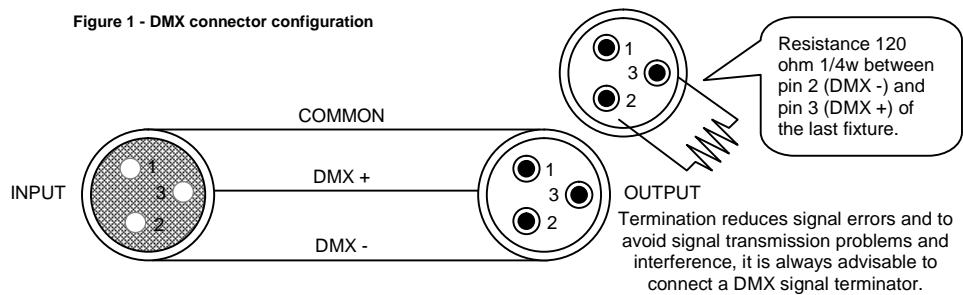
DEFAULT	VALUE	FUNCTION		
1	000 ⇔ 019	Programs		
	020 ⇔ 039	Black		
	040 ⇔ 058	Red		
	059 ⇔ 078	Green		
	079 ⇔ 098	Yellow		
	099 ⇔ 117	Blue		
	118 ⇔ 137	Purple		
	138 ⇔ 156	Cyan		
	157 ⇔ 176	White		
	177 ⇔ 196	Color Change		
	197 ⇔ 215	Slow Flow 1		
	216 ⇔ 235	Slow Flow 2		
	236 ⇔ 254	Flash		
	255	Chase Sound		
2	000 ⇔ 255	Qty of Fixtures		
		1 par can > 20 par cans		
3	000 ⇔ 255	Color Change	Flash	Chase Sound
		Slow Flow1		
		Slow Flow2		
		Run Speed	Flash Speed	Chase Program
		1 > 100%	1 > 100%	1 > 16
4	000 ⇔ 255	Chase Speed		
		1 > 100%		

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

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..... 165 mm (6.5 in)
 Width..... 63 mm (2.5 in)
 Height..... 127 mm (5.0 in)
 Weight..... 0.65 Kgs (1.4 lbs)

POWER

Power..... 9V DC, 500mA

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

ORDERING INFORMATION

COLORboss™ LED-BOSS
 COLORsplash™ LED-PAR196

Technical Support

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 3000 N 29th Ct, Hollywood, FL 33020 (U.S.A.)
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 Fax: (954) 929-5560 - (Attention: Service)
 Website:..... <http://www.chauvetlighting.com>