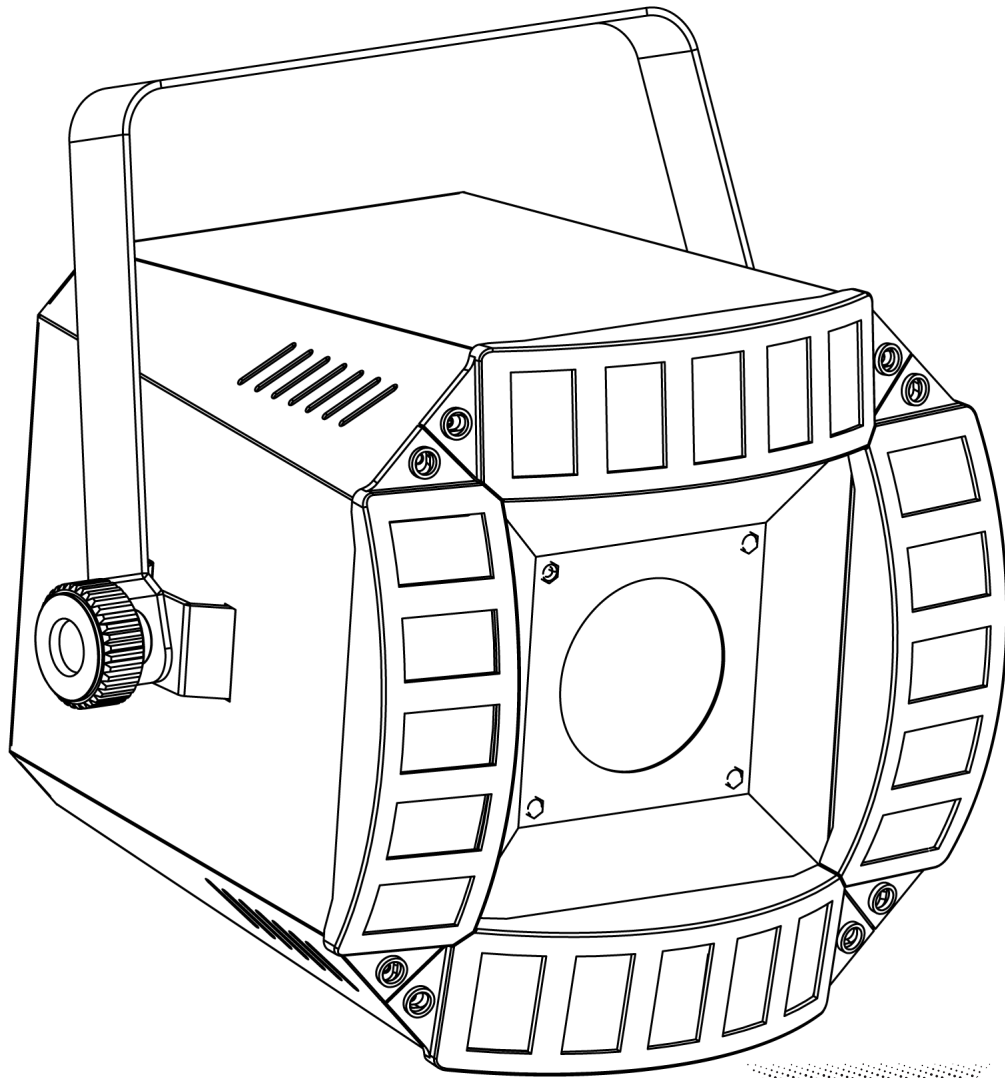


CubixTM 2.0

User Manual



CHAUVET[®]

Value • Innovation • Performance

It's
Green Thinking[™]

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1. BEFORE YOU BEGIN

What Is Included

- 1 x Cubix™ 2.0
- 1 x Power Cord
- 1 x Warranty Card
- 1 x Quick Reference Guide

Unpacking Instructions

Immediately upon receipt, carefully unpack the product and check the container to make sure you have received all the parts indicated above in good condition.

Claims




If the container or the material inside the container (the product and included accessories) appear damaged from shipping, or show signs of mishandling, upon receipt notify the carrier immediately, not CHAUVET®. Failure to do so in a timely manner may invalidate your claim with the carrier. In addition, keep the container and all the packing material 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 receiving the merchandise.

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

Icons

Icon	Meaning
	Critical installation, configuration, or operation information. Failure to comply with this information may render the product partially or completely inoperative, cause damage to the product, or cause harm to the user.
	Important installation or configuration information. Failure to comply with this information may prevent the product from functioning correctly.
	Useful information.

Disclaimer

The information and specifications contained in this document are subject to change without notice. CHAUVET® assumes no responsibility or liability for any errors or omissions that may appear in this manual. CHAUVET® reserves the right to update the existing document or to create a new document to correct any errors or omissions.

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

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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.



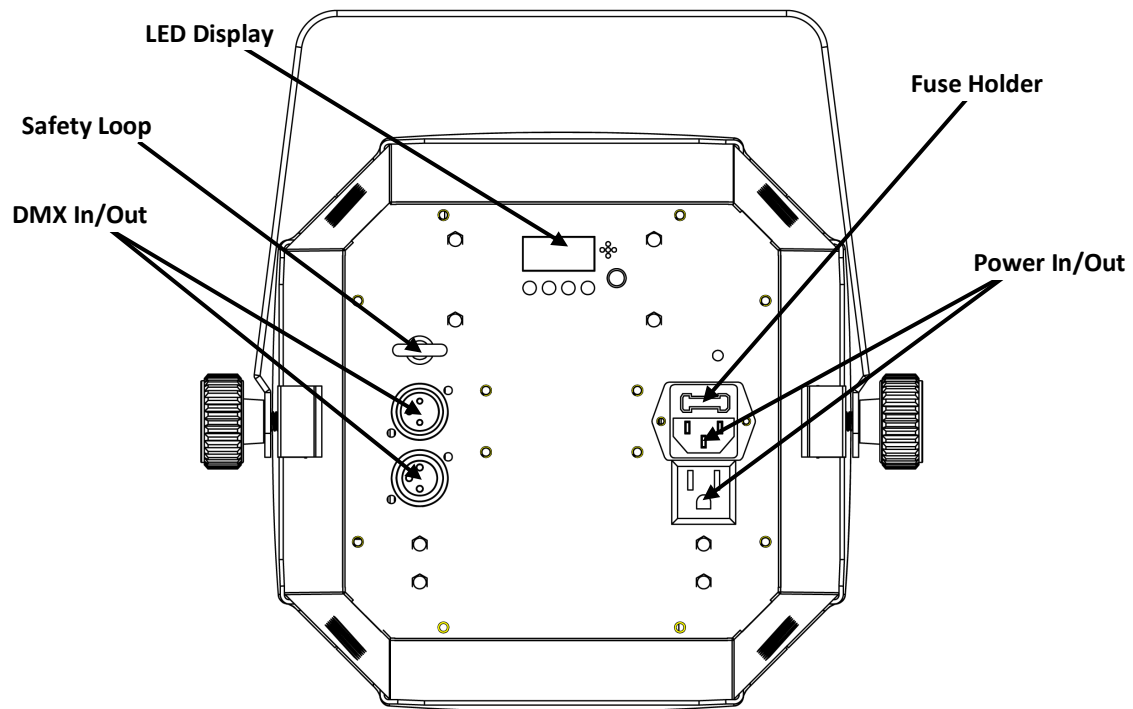
- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- The product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose the product to rain or moisture.
- Always install 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.



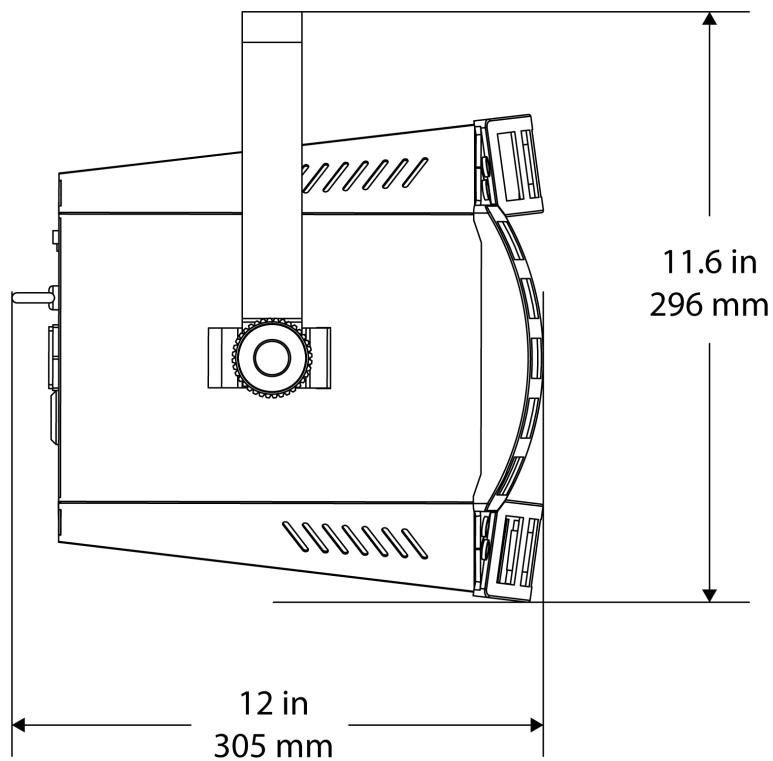
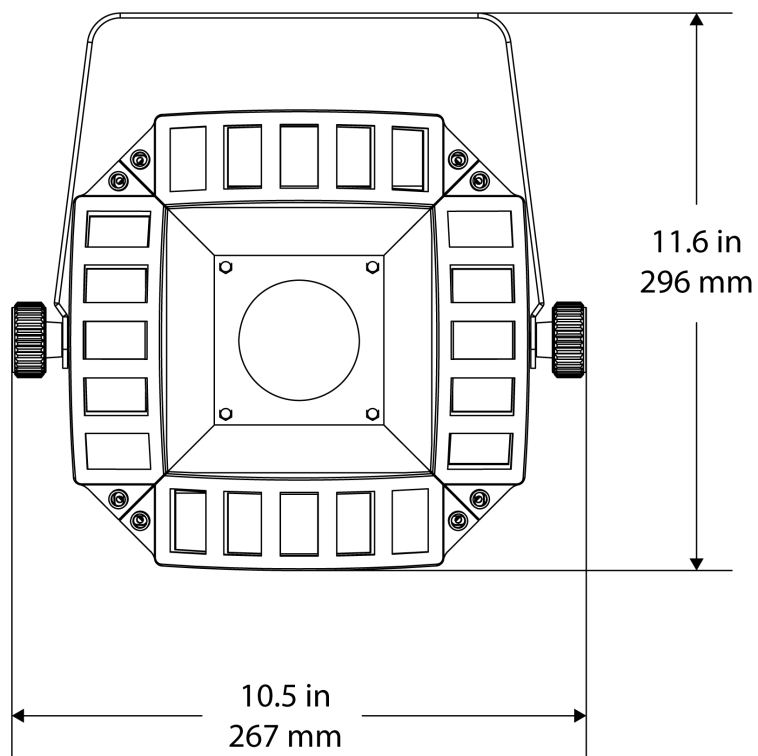
- Keep this User Manual for future consultation. If you sell the product to another user, be sure that they also receive this document.

2. INTRODUCTION

Product Overview



Product Dimensions



3. SETUP

AC Power

The Cubix™ 2.0 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.



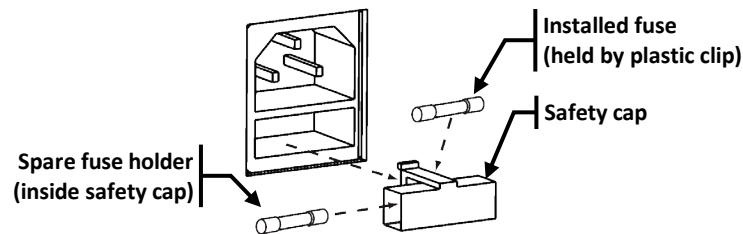
Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.



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

Fuse Replacement

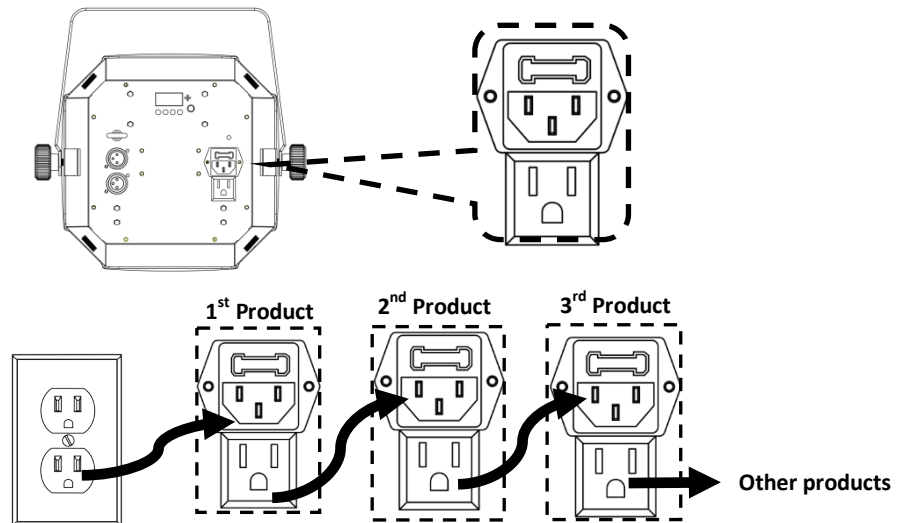
1. Wedge the tip of a flat-head screwdriver into the slot of the fuse holder.
2. Pry the fuse holder out of the housing.
3. Remove the blown fuse from the holder and replace with a fuse of the exact same type and rating.
4. Insert the fuse holder back in place and reconnect power.



Power Linking

The product provides power linking via the Edison 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 19 Cubix™ 2.0 units on 120 VAC or up to 32 Cubix™ 2.0 units on 230 VAC.



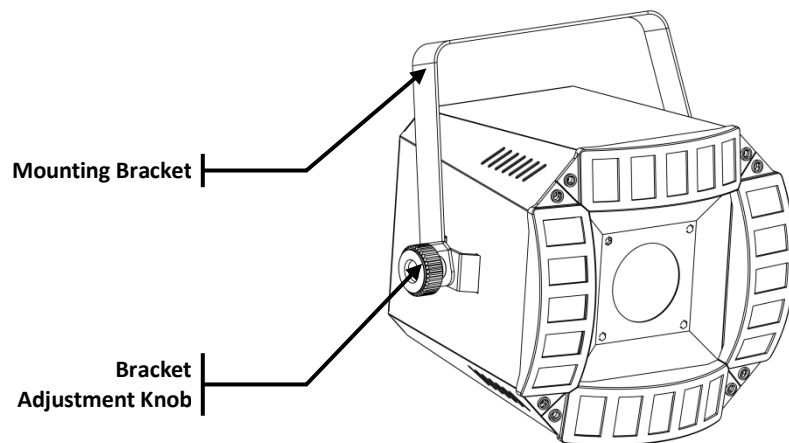
The power linking diagram corresponds to the North American version of the product ONLY! If using the product in other markets, you must consult with the local CHAUVET® distributor as power linking connectors and requirements may differ in your country or region.

Mounting Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes.

Orientation The Cubix™ 2.0 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. Please 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.

Mounting Diagram



4. OPERATION

Control Panel Operation

To access the control panel functions, use the four buttons located underneath the display. Please refer to the Product Overview to see the button locations on the control panel.

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

Menu Map

Mode	Programming Steps		Description
DMX Address	512	d__1-d512	Sets the DMX starting address
Auto Programs	AUTO		Sets Auto Program
Auto Program Speed	S--	S__1-S100	Selects Auto Program speed (slow to fast)
Sound Active Mode	SNd		Sets Sound Active mode

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.

Starting Address

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

The Cubix™ 2.0 uses up to 6 DMX channels in its 6-channel DMX mode, which defines the highest configurable address to **507**.

If you are not familiar with the DMX protocol, download the DMX Primer from the CHAUVET® website.

To select the starting address, do the following:

1. Press <MENU> repeatedly until **512** shows on the display.
2. Press <ENTER>.
3. Use <UP> or <DOWN> to select the starting address.
4. Press <ENTER>.

DMX Channel Assignments and Values

6-CH	Channel	Function	Value	Setting	
1	Colors		000 ⇔ 004	No function	Perimeter Effect
			005 ⇔ 028	Red	
			029 ⇔ 056	Green	
			057 ⇔ 084	Blue	
			085 ⇔ 112	Cyan	
			113 ⇔ 140	Purple	
			141 ⇔ 168	Yellow	
			169 ⇔ 197	White	
			198 ⇔ 224	3 Colors Switching	
			225 ⇔ 255	7 Colors Switching	
2	Strobe		000 ⇔ 004	No function	
			005 ⇔ 255	0-30 Hz	
3	Motor Rotation		000 ⇔ 127	Rotate clockwise (slow to fast)	
			128 ⇔ 255	Rotate counter clockwise (slow to fast)	
4	Auto Programs		000 ⇔ 014	Blackout	
			015 ⇔ 255	Auto Programs	
5	Auto Program Speed		000 ⇔ 015	No function	Middle Effect
			016 ⇔ 255	0~100% (when Ch. 4 is from 015-255)	
6	Strobe		000 ⇔ 015	No function	
			016 ⇔ 255	0-30 Hz	

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 to a DMX string connected to a DMX controller. Products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

Automatic Mode To enable the Automatic Mode, follow the instructions below:

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

Sound-Active Mode To enable the Sound-Active mode, do the following:

1. Press **<MENU>** repeatedly until **SND** shows on the display.
2. Press **<ENTER>**.
3. Turn the music on and adjust the sound sensitivity knob until the product starts responding to the beat of the music.

Master/Slave Mode

The Master/Slave mode allows a single Cubix™ 2.0 unit (the “master”) to control the actions of one or more Cubix™ 2.0 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 **<MENU>** repeatedly until **512** 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 daisy chain.



- **Configure all the slave units before connecting the master unit to the 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 and/or mechanical wear. 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 drag any dirt or grime to the outside 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	
	10.5 in (267 mm)	12 in (305 mm)	11.6 in (296 mm)	8.1 lbs (3.7 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	50 W		48 W	
	Operating	0.4 A		0.2 A	
	Power linking current (units)	8 A (19 units)		8 A (32 units)	
	Fuse	F 1 A, 250 V		F 1 A, 250 V	
	Power I/O	US/Worldwide		UK/Europe	
	Power input connector	IEC		IEC	
	Power output connector	Edison		IEC	
	Power Cord plug	Edison (US)		Local plug	
	Light Source	Type	Power		Lifespan
		LED	9 W		50,000 hours
Color		Quantity		Current	
Red (5 mm)		32		20 mA	
Green (5 mm)		20		20 mA	
Blue (5 mm)		12		20 mA	
Red (3 W)		2		500 mA	
Green (3 W)		2		500 mA	
Blue (3 W)		2		500 mA	
Photo Optic		Parameter			
	Coverage angle	111°			
Thermal	Maximum External Temp.	Cooling System			
	104° F (40° C)	Convection			
DMX	I/O Connectors	Connector Type		Channel Range	
	3-pin XLR	Sockets		6	
Ordering	Product Name	Item Code		Item Number	
	Cubix™ 2.0	03050528		CUBIX2.0	



Contact Procedure

In case you need to return a product or request support, follow the procedure below:

- If you live in the U.S., contact CHAUVET® World Headquarters (see below).
- If you live in the UK or Ireland, contact CHAUVET® Europe Ltd. (see below).
- If you live in any other country, DO NOT contact CHAUVET®. Instead, contact your distributor of record. See www.chauvetlighting.com for distributors outside the U.S., United Kingdom, or Ireland.



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.

Returning Products to CHAUVET®

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. As a suggestion, proper UPS packing or double-boxing is always a safe method to use.



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

CHAUVET® Contact Information

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.

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Fax: +44 (0)1773 511110

Technical Support

Email: uktech@chauvetlighting.com

World Wide Web

www.chauvetlighting.co.uk