

abyss 2

User Manual

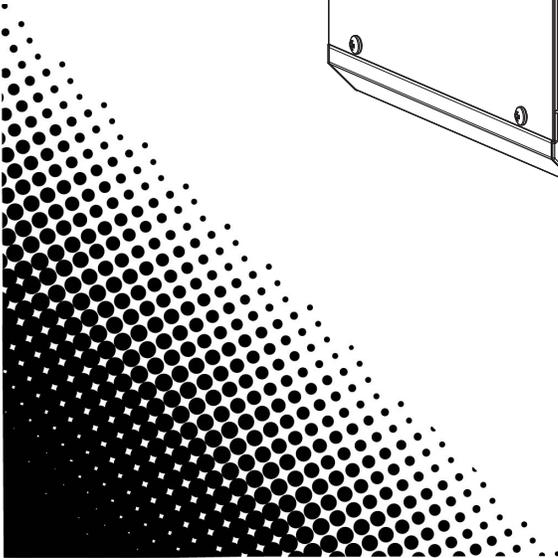
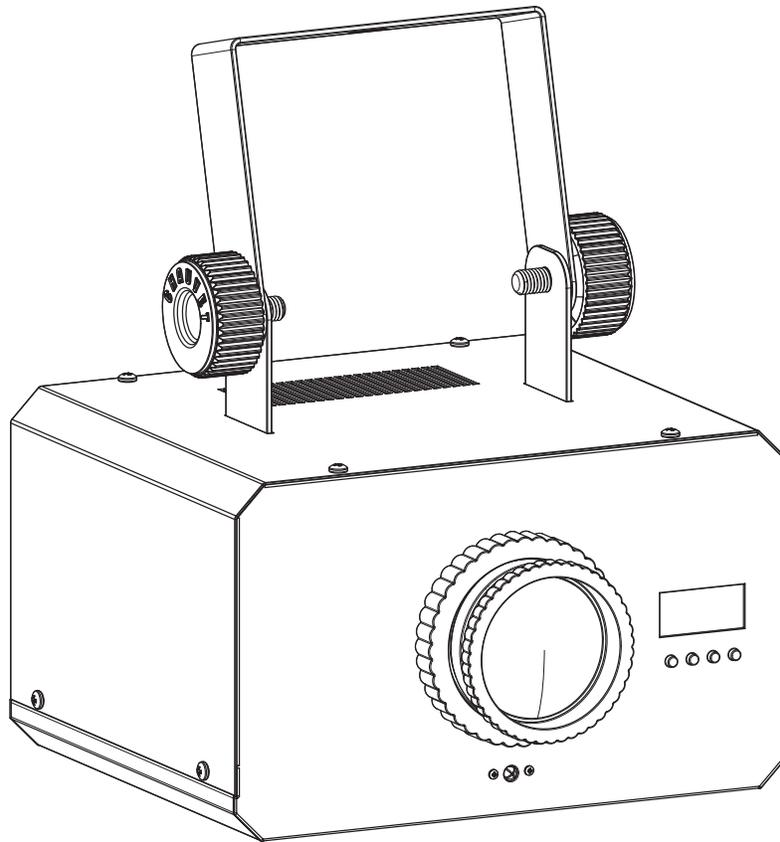


TABLE OF CONTENTS

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	3
3. Setup	4
AC Power	4
Fuse Replacement.....	4
Power Linking.....	4
Mounting	5
Orientation.....	5
Rigging	5
4. Operation	6
Control Panel Operation.....	6
Menu Map	6
Configuration (DMX)	6
Starting Address and Personality	6
DMX Channel Assignments and Values	7
3Ch.....	7
Configuration (Standalone)	7
Color Wheel.....	7
Wave Effect.....	7
Dimmer.....	7
Temperature.....	7
IRC-6 Infrared Remote Control	8
IRC-6 Operation	8
Master/Slave Mode	8
5. Maintenance.....	9
Product Maintenance	9
6. Technical Specifications	10
Returns.....	11
Contact Us	12

1. Before You Begin

What Is Included

- Abyss 2
- 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

Chauvet believes that the information contained in this manual is accurate in all respects. However, Chauvet assumes no responsibility and specifically disclaims any and all liability to any party for any loss, damage or disruption caused by any errors or omissions in this document, whether such errors or omissions result from negligence, accident or any other cause. Chauvet reserves the right to revise the content of this document without any obligation to notify any person or company of such revision, however, Chauvet has no obligation to make, and does not commit to make, any such revisions. Download the latest version from www.chauvetdj.com.

Intellectual Property

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CHAUVET, the Chauvet logo, and Abyss 2 are registered trademarks or trademarks of Chauvet & Sons LLC (d/b/a Chauvet and Chauvet Lighting) in the United States and other countries. Other company and product names and logos referred to herein may be trademarks of their respective companies.

Safety Notes



- This product is not intended for permanent installation.
- 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 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.



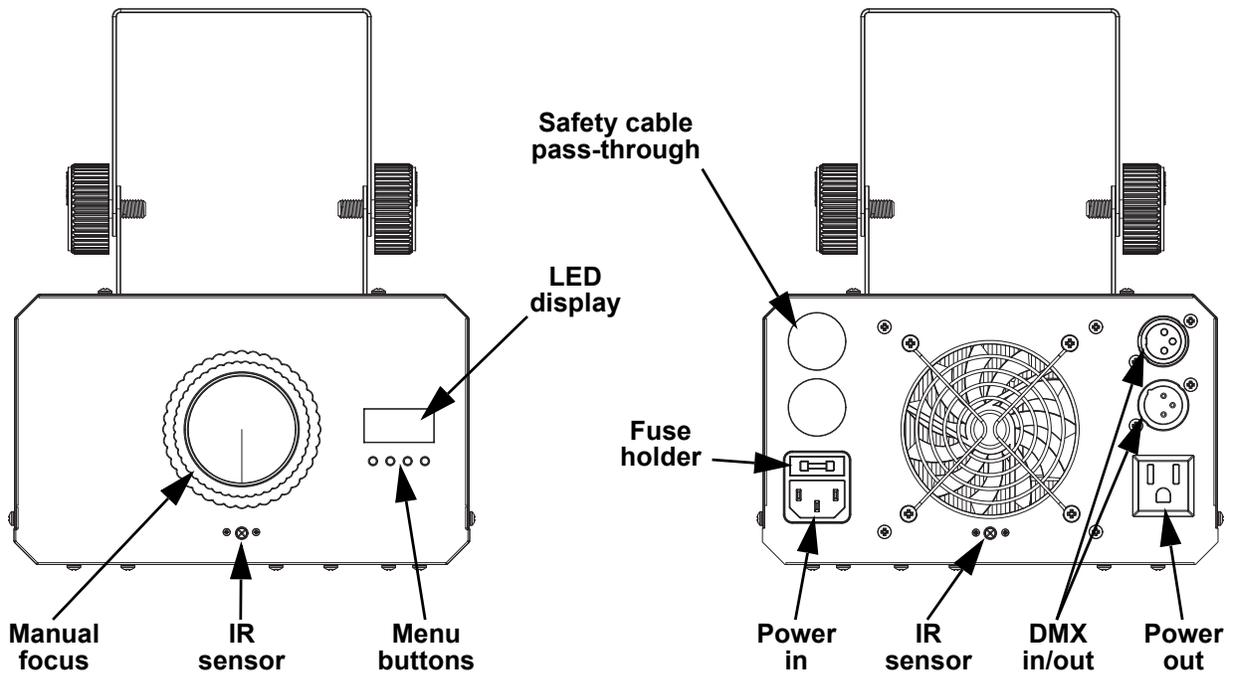
- The voltage of the outlet to which you are connecting this product must be within the range stated on the decal or rear panel of the product.
- The product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose the product to rain or moisture.
- Always install the product in 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 or rheostat.
- 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 handles.
- The maximum ambient temperature is 104 °F (40 °C). Do not operate this product at higher temperatures.
- In the event of a serious operating problem, stop using the product immediately.
- Do not open this product. It contains no user-serviceable parts.
- 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.



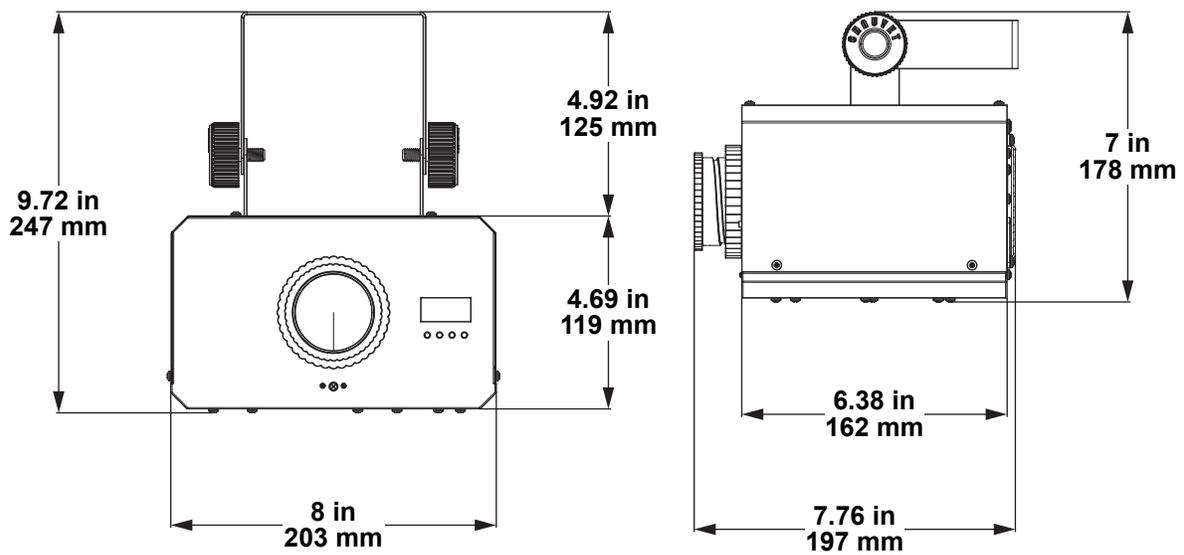
Keep this User Manual for future use. If the product is sold to someone else, be sure that they also receive this document.

2. Introduction

Product Overview



Product Dimensions



3. Setup

AC Power

The Abyss 2 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.



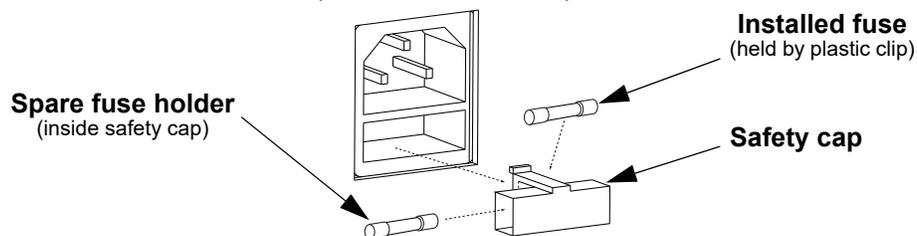
- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product 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. Disconnect the product from power.
2. Wedge the tip of a flat-head screwdriver into the slot of the fuse holder.
3. Pry the fuse holder out of the housing.
4. Remove the blown fuse from the holder and replace with a fuse of the exact same type and rating.
5. Insert the fuse holder back in place and reconnect power.

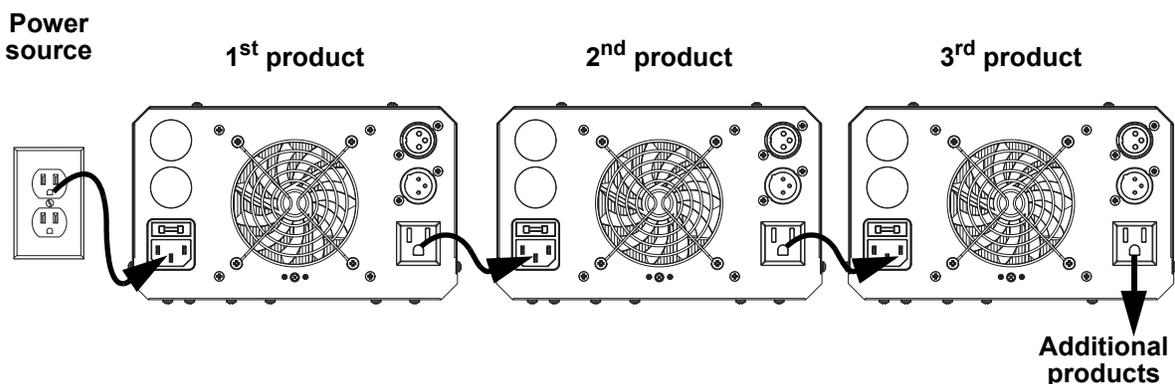


Disconnect the product from the power outlet before replacing the fuse.

Power Linking

The product provides power linking via the outlet located in the back of the product. See the diagram below for further explanation.

Power Linking Diagram



You can power link up to 7 Abyss 2 products on 120 VAC or up to 13 Abyss 2 products 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](#).

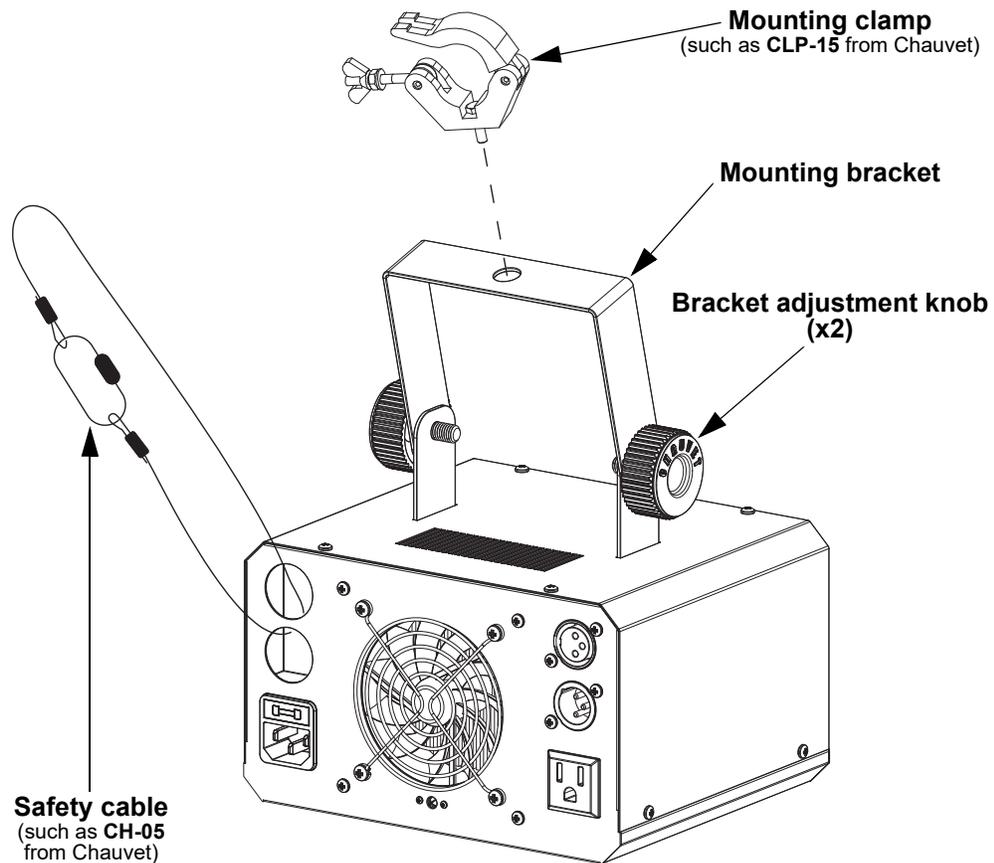
Orientation

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

Rigging

- Before deciding on a location, always make sure there is easy access to the product for maintenance and programming.
- Make sure adequate ventilation is provided around the product.
- Make sure that the structure or surface onto which you are mounting the product can support the product's weight. (see the [Technical Specifications](#))
- 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.
- When mounting the product on the floor, make sure that the product and cables are away from people and vehicles.

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

Refer to the Abyss 2 product page on www.chauvetdj.com for the latest menu map.

Mode	Programming Levels		Description	
DMX Mode	3Ch	A001–512	Sets the DMX starting address	
Color Wheel	C--	C--1	White	
		C--2	Magenta	
		C--3	Yellow	
		C--4	Cyan	
		C--5	Green	
		C--6	Orange	
		C--L	L000–100	Counter-clockwise rotation and speed
C--r	r000–100	Clockwise rotation and speed		
Wave Effect	UAuE	Stop	No wave effect	
		U--L	L000–100	Counter-clockwise wave effect and speed
		U--r	r000–100	Clockwise wave effect and speed
Dimmer	U--	u 0–255	Sets the output level	
Infrared Mode	SEt	on	Turns infrared on or off	
		oFF		
Temperature	tENP	t _ _	Shows the current product temperature in °C	

Configuration (DMX)

The Abyss 2 works with a DMX controller. Information about DMX is in the CHAUVET DMX Primer, which is available from the Chauvet website http://www.chauvetlighting.com/downloads/DMX_Primer_rev05_WO.pdf.

Starting Address and Personality

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

The Abyss 2 uses 3 DMX channels, which defines the highest configurable address to **510**.

For information about the DMX protocol, download the DMX Primer from www.chauvetdj.com.

To select the starting address and personality, do the following:

1. Press <MENU> repeatedly until **3Ch** shows on the display.
2. Press <ENTER>.
3. Use <UP> or <DOWN> to select the starting address, from **A001–512**.
4. Press <ENTER>.

DMX Channel Assignments and Values

3Ch

Channel	Function	Value	Percent/Setting
1	Dimmer	000 ⇔ 255	0–100%
2	Color wheel	000 ⇔ 021	White
		022 ⇔ 042	Magenta
		043 ⇔ 063	Yellow
		064 ⇔ 084	Cyan
		085 ⇔ 105	Green
		106 ⇔ 127	Orange
		128 ⇔ 188	Counter-clockwise rotation, fast to slow
		189 ⇔ 194	Stop
		195 ⇔ 255	Clockwise rotation, slow to fast
3	Wave effect	000	No function
		001 ⇔ 122	Counter-clockwise wave effect, slow to fast
		123 ⇔ 133	Stop
		134 ⇔ 255	Clockwise wave effect, fast to slow

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.

Color Wheel

To set the color or color effect on the Abyss 2, follow the instructions below.

1. Press **<MENU>** repeatedly until **C--** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select from **C--1** (white), **C--2** (magenta), **C--3** (yellow), **C--4** (cyan), **C--5** (green), **C--6** (orange), **C--L** (counterclockwise rotation), or **C--r** (clockwise rotation).
4. Press **<ENTER>**.
5. If **C--L** or **C--r**, use **<UP>** or **<DOWN>** to increase or decrease the rotation speed, from **000–100**.
6. Press **<ENTER>**.

Wave Effect

To set the wave effect on the Abyss 2, do the following:

1. Press **<MENU>** repeatedly until **UAuE** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select from **Stop** (no wave effect), **U--L** (counter-clockwise wave effect), or **U--r** (clockwise wave effect).
4. Press **<ENTER>**.
5. If **U--L** or **U--r**, use **<UP>** or **<DOWN>** to increase or decrease the effect speed, from **000–100**.
6. Press **<ENTER>**.

Dimmer

To set the dimmer on the Abyss 2, follow the instructions below.

1. Press **<MENU>** repeatedly until **U--** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to increase or decrease the dimmer, from **u 0–255**.
4. Press **<ENTER>**.

Temperature

To view the temperature of the Abyss 2 in °C:

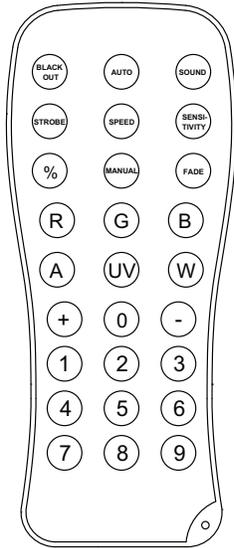
1. Press **<MENU>** repeatedly until **tENP** shows on the display.
2. Press **<ENTER>**.

IRC-6 Infrared Remote Control

The Abyss 2 is compatible with the IRC-6 infrared remote control from Chauvet. To run the Abyss 2 in IR mode, follow the instructions below.

1. Press **<MENU>** repeatedly until **Set** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select from **on** or **off**.
4. Press **<ENTER>**.

IRC-6 Operation



Color Wheel

To select a color with the IRC-6:

1. Press **<1>** (white), **<2>** (magenta), **<3>** (yellow), **<4>** (cyan), **<5>** (green), or **<6>** (orange).

To set rotation direction with the IRC-6:

1. Press **<AUTO>**.
2. Press **<+>** or **<->** to toggle the rotation direction.

To set rotation speed with the IRC-6:

1. Press **<SPEED>**.
2. Press **<+>** or **<->** to increase or decrease the speed.

Wave Effect

To set the wave effect direction with the IRC-6:

1. Press **<SOUND>**.
2. Press **<+>** or **<->** to toggle the direction.

To set the wave effect speed with the IRC-6:

1. Press **<SENSITIVITY>**.
2. Press **<+>** or **<->** to increase or decrease the speed.

Dimmer

To set the dimmer with the IRC-6:

1. Press **<%>**.
2. Press **<+>** or **<->** to increase or decrease the dimmer.

Alternatively, press **<MANUAL>** to set the dimmer to 100%

Black Out

To black out the lights with the IRC-6:

1. Press **<BLACK OUT>** on the IRC-6.

This will turn off all the lights until the button is pressed again.

NOTE: The IRC-6 will not respond to any inputs when Black Out is activated. If the product does not respond when a button is pressed, try pressing **<BLACK OUT>**. Black Out may have been activated.

Master/Slave Mode

The Master/Slave mode allows a single Abyss 2 product (the “master”) to control the actions of one or more Abyss 2 products (the “slaves”) without the need of a DMX controller. The master product will be set to operate in either standalone mode or with the IRC-6, while the slave products will be set to operate in slave mode. Once set and connected, the slave products will operate in unison with the master product.

Configure the products as indicated below.

Slave products:

1. Press **<MENU>** repeatedly until **3Ch** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select **A001**.
4. Press **<ENTER>**.
5. Connect the DMX input of the first slave product to the DMX output of the master product.
6. Connect the DMX input of the subsequent slave products to the DMX output of the previous slave product.
7. Finish setting and connecting all the slave products.

Master product:

1. Set the master product to operate in standalone mode or with the IRC-6.
2. Make the master product the first product in the DMX daisy chain.



- **Configure all the slave products before connecting the master 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.**
- **Do not connect more than 31 slaves to the master.**

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.



Do not spin the cooling fan using compressed air because it could be damaged.

6. Technical Specifications

Dimensions and Weight

Length	Width	Height	Weight
8 in (203 mm)	7 in (178 mm)	6.38 in (152 mm)	6.2 lb (2.8 kg)

Note: Dimensions in inches are rounded.

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
Consumption	80 W	74 W
Operating Current	1.1 A	0.6 A
Power linking current (products)	8 A (7 products)	8 A (13 products)
Fuse	T 1 A, 250 V	T 1 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 (U.S.)	Local Plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	White	1	60 W	2 A	50,000 hours

Photometrics

Coverage Angle	Illuminance @ 2 m
60°	5,010 lux

Thermal

Maximum External Temperature	Cooling System
104 °F (40 °C)	Fan-assisted convection

DMX

I/O Connector	Channel Range
3-pin XLR	3

Ordering

Product Name	Item Code	UPC Number
Abyss 2	07051837	781462221850



Returns

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

- If you are located in the U.S., contact Chauvet World Headquarters.
- If you are located in the U.K. 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., U.K., Ireland, Benelux, France, Germany, or Mexico.



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