

abyss 2

User Manual





Edition Notes

The Abyss 2 User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the Abyss 2 as of the release date of this edition.

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Document Printing

For best results, print this document in color, on letter size paper (8.5 x 11 in), double-sided. If using A4 paper (210 x 297 mm), configure the printer to scale the content accordingly.

Intended Audience

Any person installing, operating, and/or maintaining this product should completely read through the guide that shipped with the product, as well as this manual, before installing, operating, or maintaining this product.

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Document Revision

Go to www.chauvetdj.com for the latest version.

Revision	Date	Description
2	07/2025	Amended Safety Notes and added power linking information

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1. Before You Begin

What Is Included

- Abyss 2
- Power cable
- 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 a 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.

Safety Notes

These Safety Notes include important information about installation, use, and maintenance of the Abyss 2.

- ◆ The luminaire is intended for professional use only.
- ◆ The luminaire should be positioned so that prolonged staring into the luminaire at a distance closer than 8.8 ft (2.7 m) is not expected.
- ◆ If the external flexible cable or cord of this luminaire is damaged, it shall be replaced by a special cord or cord exclusively available from the manufacturer or its service agent.
- ◆ The light source contained in this luminaire shall only be replaced by the manufacturer or its service agent or a similar qualified person.



■ **ALWAYS:**

- ◆ Connect to a grounded circuit.
- ◆ Connect to operating voltages as specified on the product's spec sticker.
- ◆ Disconnect from power before replacing the fuse.
- ◆ Disconnect from its power source during periods of inactivity.
- ◆ Use a safety cable when suspending overhead.
- ◆ Heed all restrictions and warnings on the spec sticker.
- ◆ Mount in a location with at least 20 in (50 cm) of ventilation.
- ◆ Replace the fuse with the same type and rating.
- ◆ Use a clamp with a captive bolt when a single hanging bracket is used.

- In the event of a serious operating problem, stop using immediately.

■ **DO NOT:**

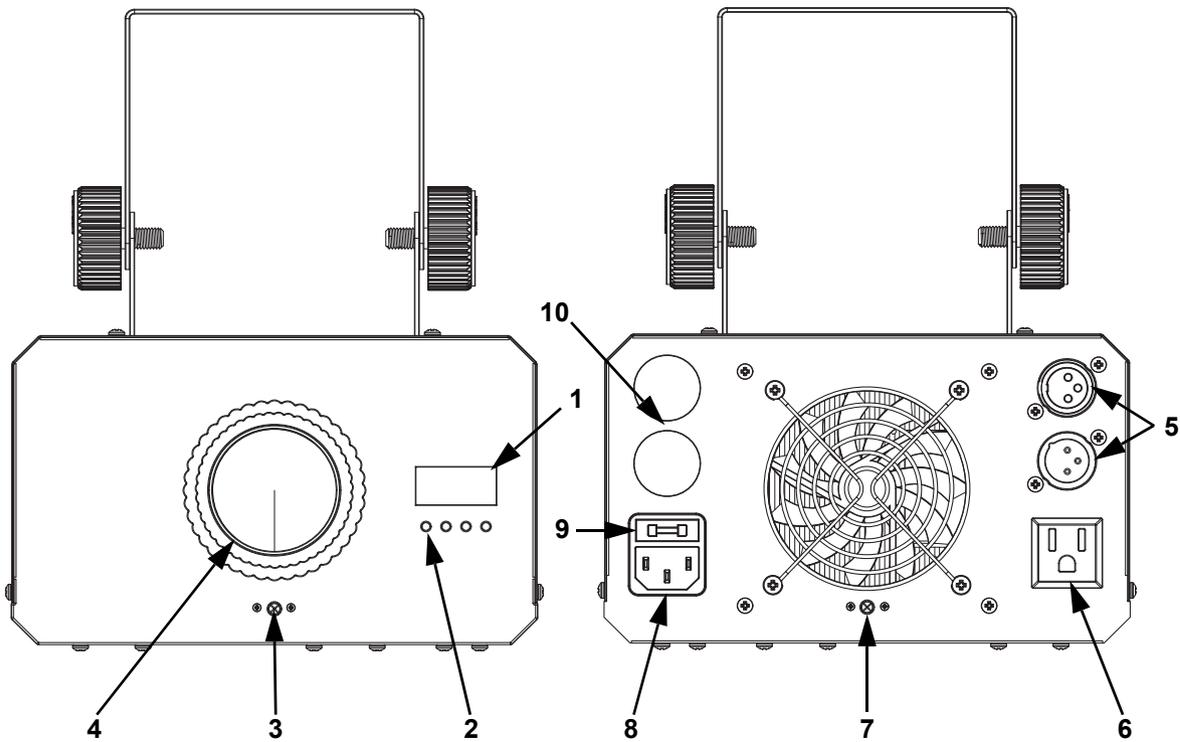
- ◆ Open this product or attempt any repairs. It contains no user-serviceable parts.
- ◆ Look at the light source when the product is on.
- ◆ Use if the power cable is crimped or damaged.
- ◆ Disconnect by pulling on the power cable.
- ◆ Allow flammable materials close to the product when it is operating.
- ◆ Touch the housing when it is on.
- ◆ Block any ventilation holes/slots in the housing.
- ◆ Connect to a dimmer or rheostat.
- ◆ Carry the product by its power cable.
- ◆ Operate in temperatures higher than 104°F (40°C).
- ◆ Expose to environments that exceed the Ingress Protection (IP) rating.
- ◆ Expose to rain or moisture.
- ◆ Use outdoors.
- ◆ Submerge.
- ◆ Expose to corrosive environmental conditions such as temperature, humidity, salinity, pressure, radiation, or shock.



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

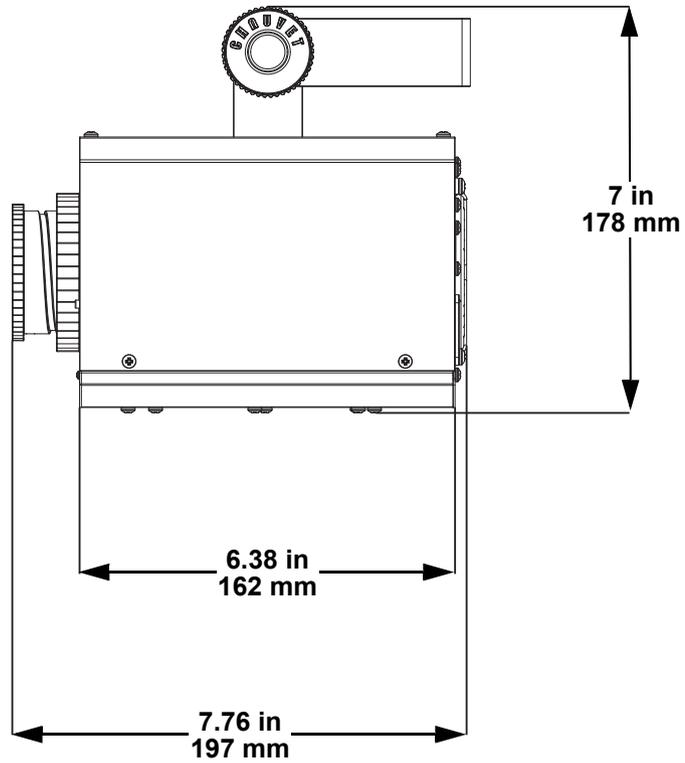
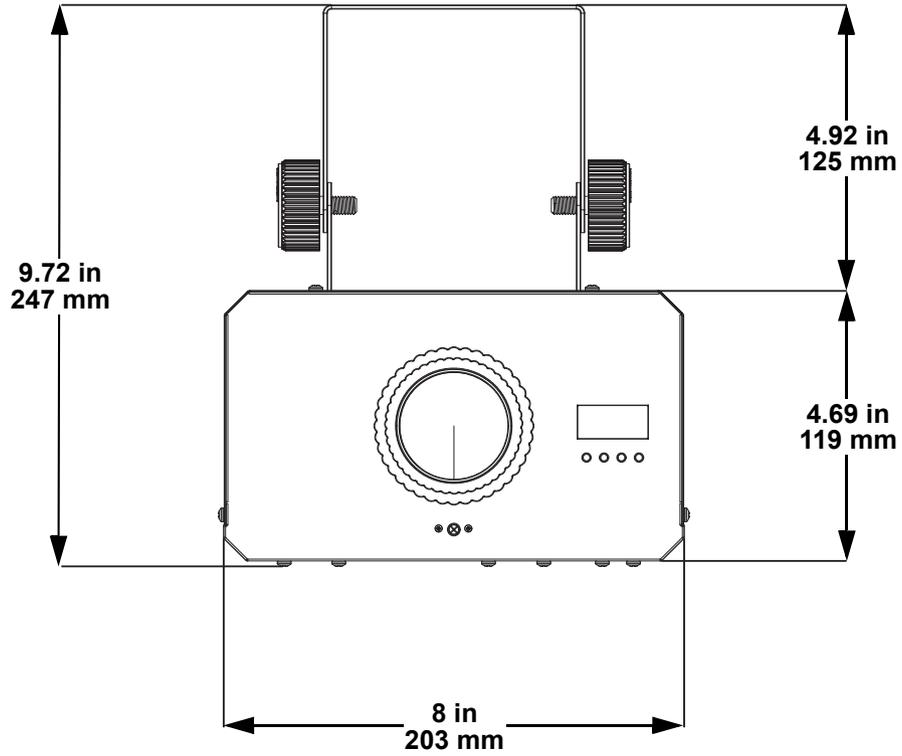
2. Introduction

Product Overview



#	Name	#	Name
1	Display	6	Power out
2	Menu buttons	7	IR sensor
3	IR sensor	8	Power in
4	Manual focus	9	Fuse holder
5	3-pin DMX in/out	10	Safety cable pass-through

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.



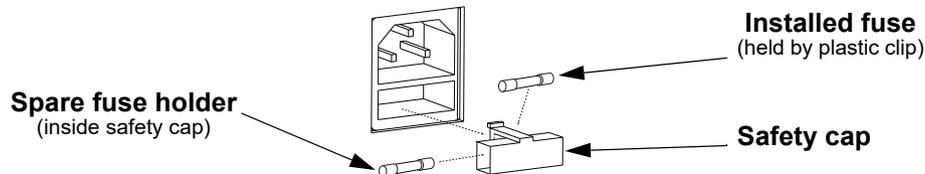
- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product 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.

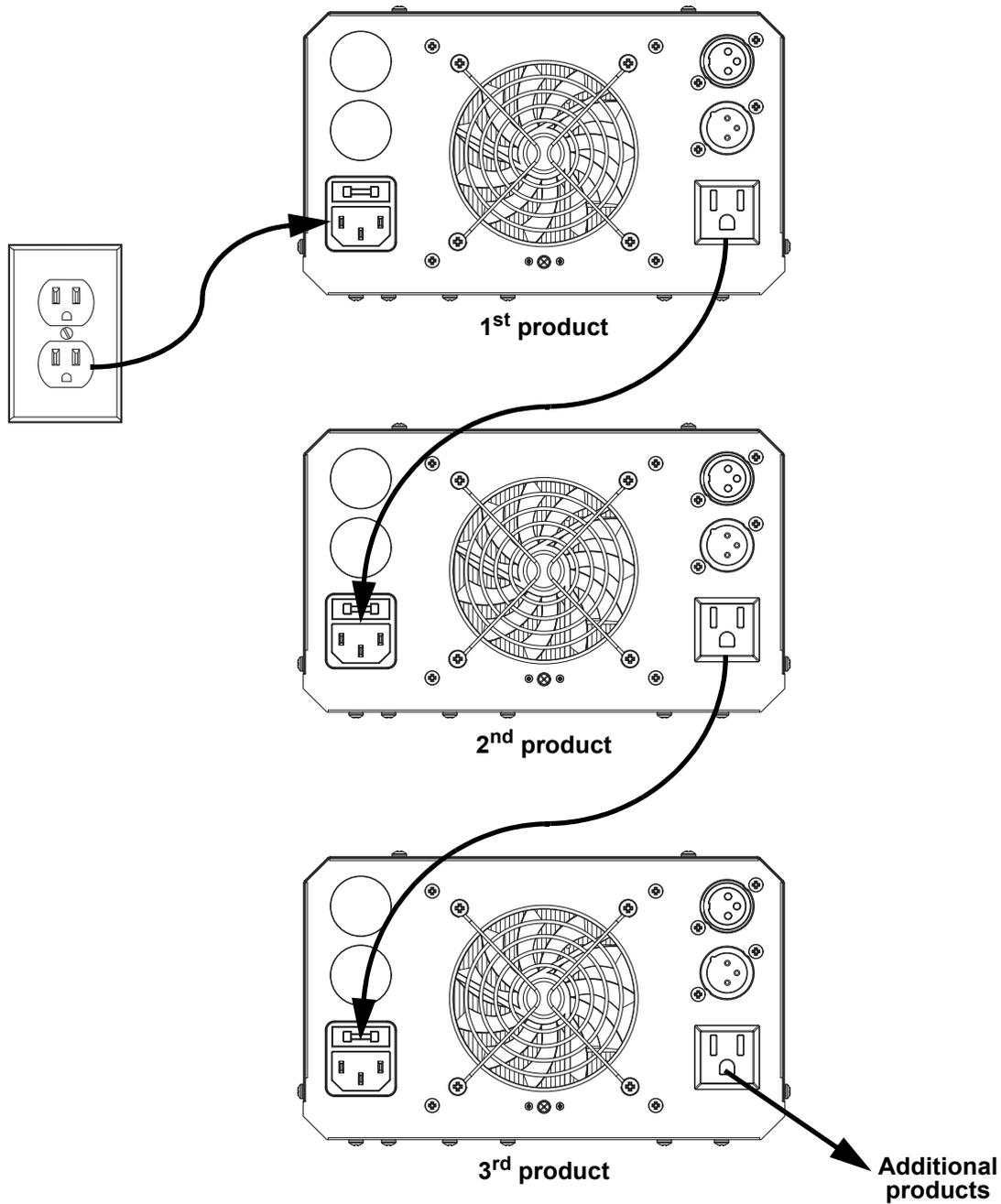


Always replace a blown fuse with one of the same type and rating.

Power Linking

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

Power Linking Diagram



It is possible to link up to 6 Abyss 2 products on 100 VAC or up to 10 products on 240 VAC. Never exceed this number. Power-linking cords can be purchased separately.



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

Mounting

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

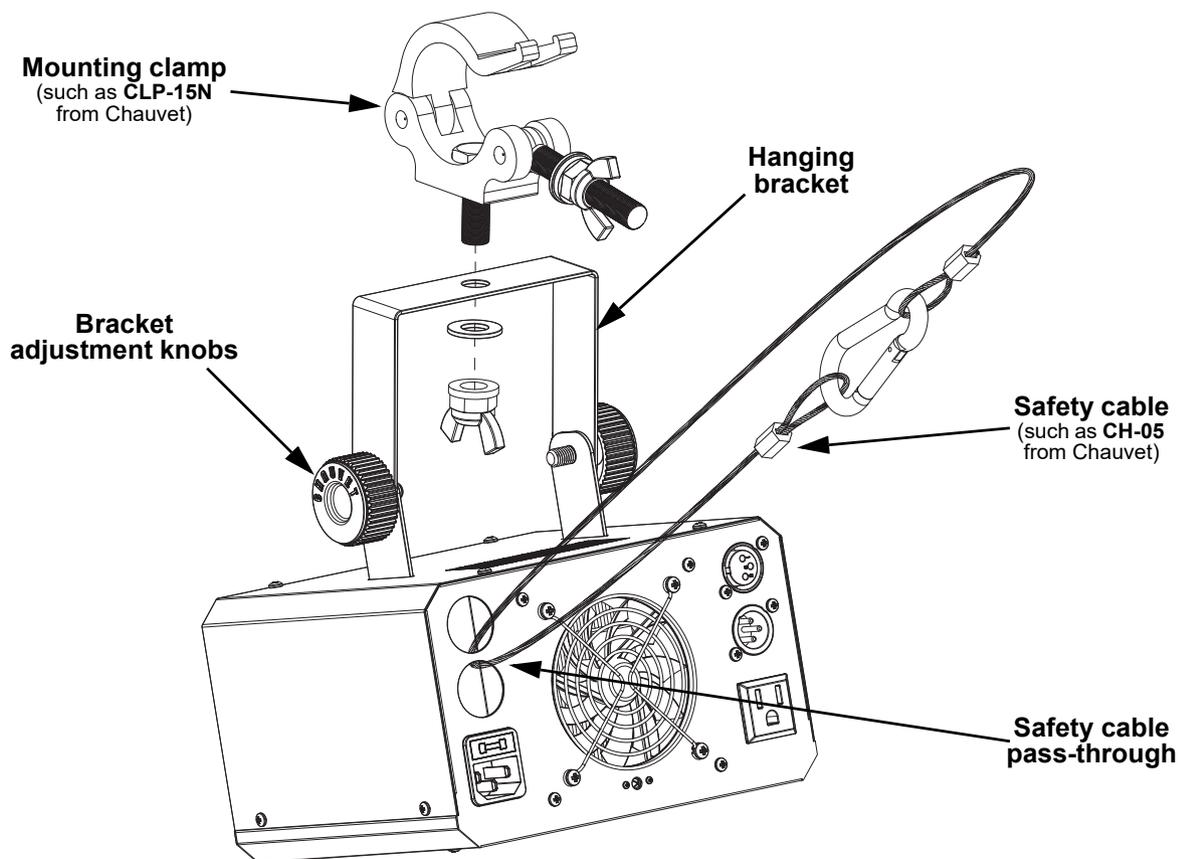
Orientation

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 for the product, always make sure there is easy access to the product for maintenance and programming.
- Make sure that the structure and attachment points can support the weight before hanging the product (see the [Technical Specifications](#) section for weight information).
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, such as an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity. The bracket has a 13-mm hole, which is appropriate for this purpose.
- 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.
- 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



To prevent accidental loosening when using a single mounting clamp, be sure to use a clamp with a captive bolt.

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	

DMX Configuration

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

Standalone Configuration

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

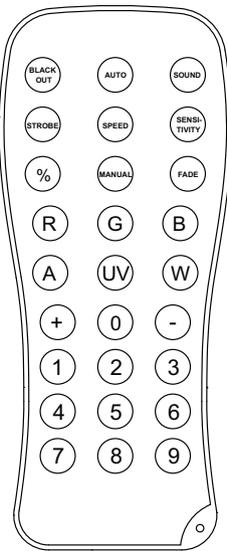
The Abyss 2 is compatible with the IRC-6 infrared remote control from Chauvet.

To enable or disable IRC-6 functionality, do the following:

1. Press **<MENU>** repeatedly until **SEt** shows on the display.
2. Press **<ENTER>**.
3. Press **<ENTER>** to select from **on** (enable), or **oFF** (disable).
4. Press **<ENTER>**.

Consult the table below to operate the Abyss 2 with the IRC-6.

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 all 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 fans using compressed air because they 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	5+ White, Rainbow scroll	1	60 W	2 A	50,000 hours

Photometrics

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

Thermal

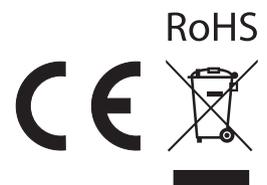
Maximum External Temperature	Cooling System
104 °F (40 °C)	Fan-assisted convection

DMX

I/O Connector	Channel Range
3-pin XLR	3

Ordering

Product Name	Item Code	UPC Number
Abyss 2	07051837	781462221850



Contact Us

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Warranty & Returns

For warranty terms and conditions and return information, please visit our website.

For customers in the United States and Mexico: www.chauvetlighting.com/warranty-registration.

For customers in the United Kingdom, Republic of Ireland, Belgium, the Netherlands, Luxembourg, France, and Germany: www.chauvetlighting.eu/warranty-registration.