LED ⚡ Shadow™

User Manual

CHAUVET DJ

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1. BEFORE YOU BEGIN

What Is Included
- LED Shadow™
- Power Cord
- Warranty Card
- 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
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

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
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.

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Product at a Glance

Use on Dimmer	✖	Auto Programs	P
Outdoor Use	✖	Auto-ranging Power Supply	P
Sound-Active	P	Replaceable Fuse	P
DMX	P	User-Serviceable	✖
Master/Slave	P		

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.
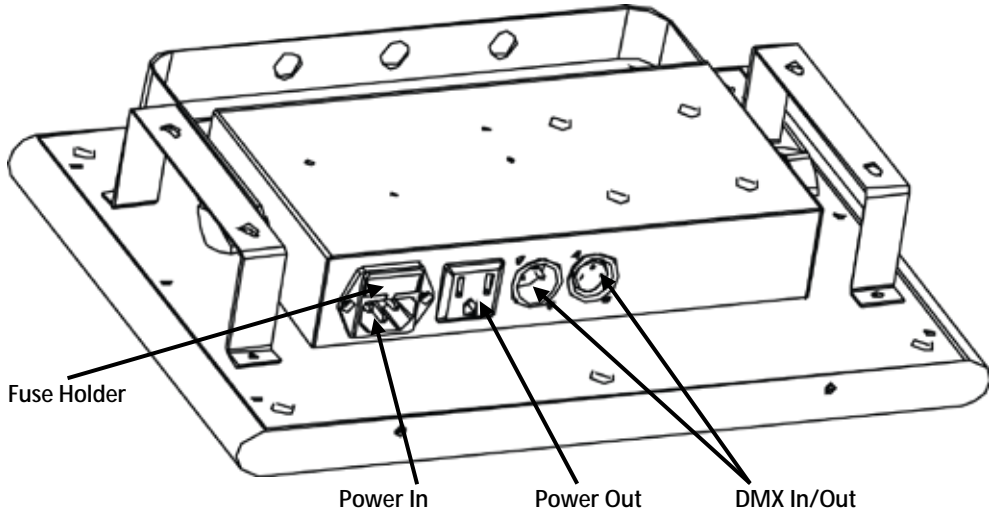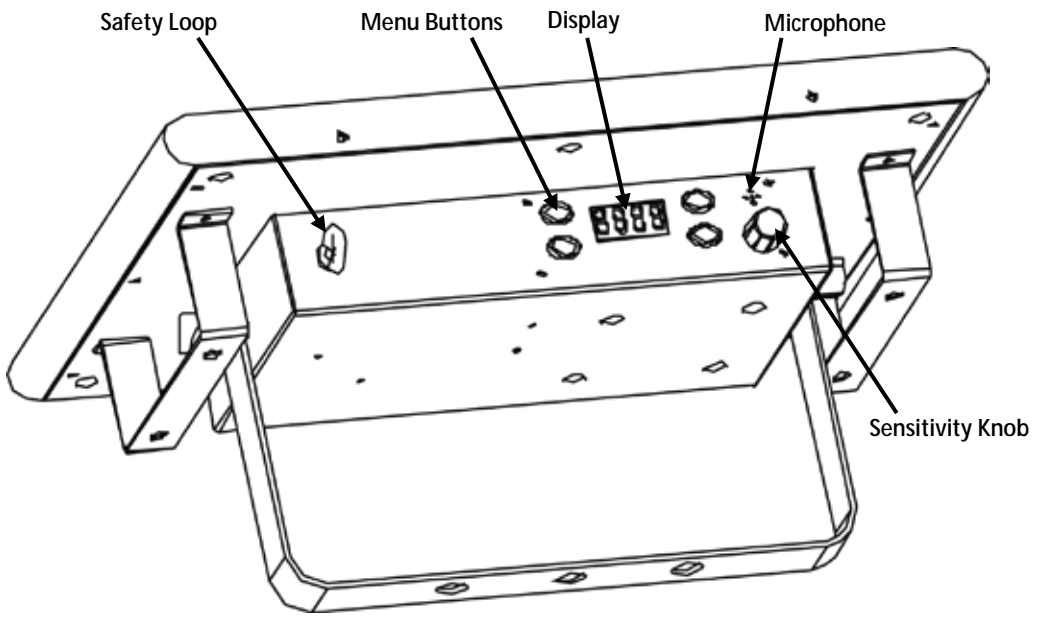- Do not touch the product's housing when operating because it may be very hot.

ⓘ
- The product is not intended for permanent installation.
- 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.
- 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.
- 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 you sell the product to someone else, be sure that they also receive this document.

2. INTRODUCTION

Product Overview

Safety Loop   Menu Buttons   Display   Microphone

Sensitivity Knob

Fuse Holder

Power In   Power Out   DMX In/Out

Product Dimensions

14 in
356 mm

6.5 in
165 mm

9.8 in
248 mm

3. SETUP

AC Power The LED Shadow™ 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 (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.**
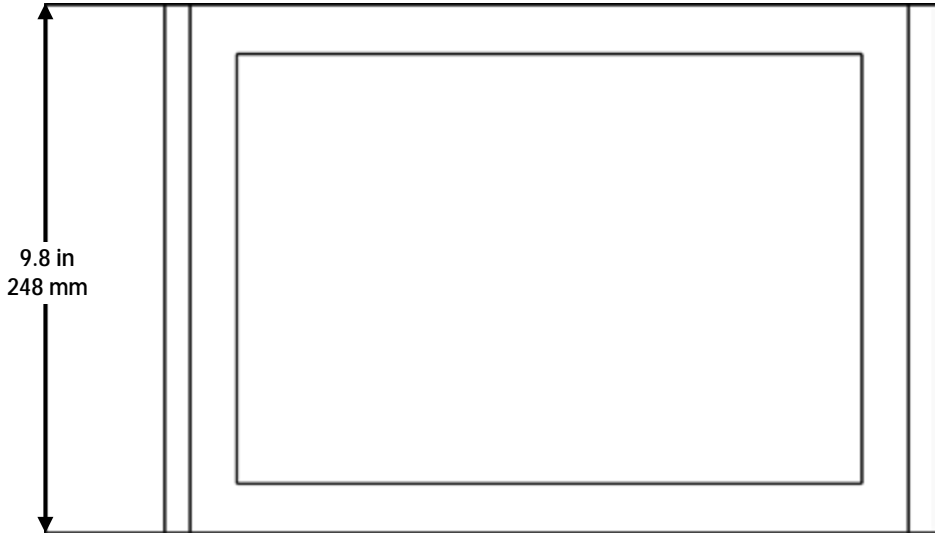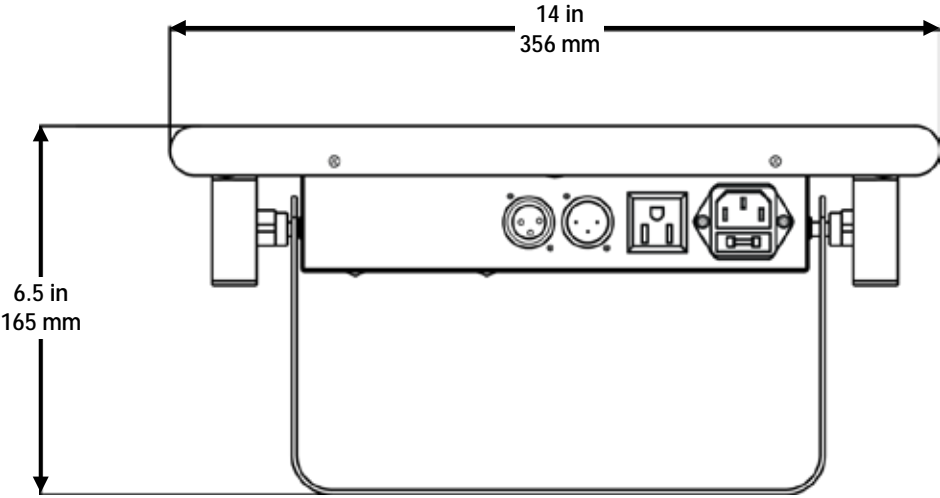
Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

Fuse Replacement

1. 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.
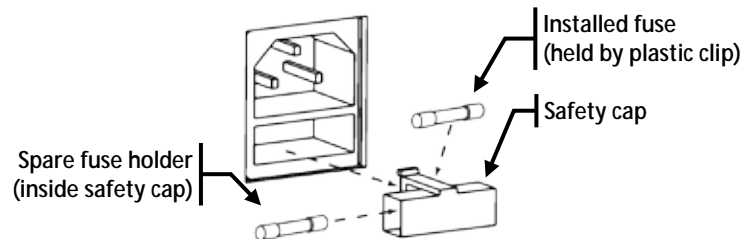
Disconnect the product from the power outlet before replacing the fuse.

Power Linking The product provides power linking via the Edison outlet located in the back of the product. Please see the diagram below for further explanation.

Power Linking Diagram
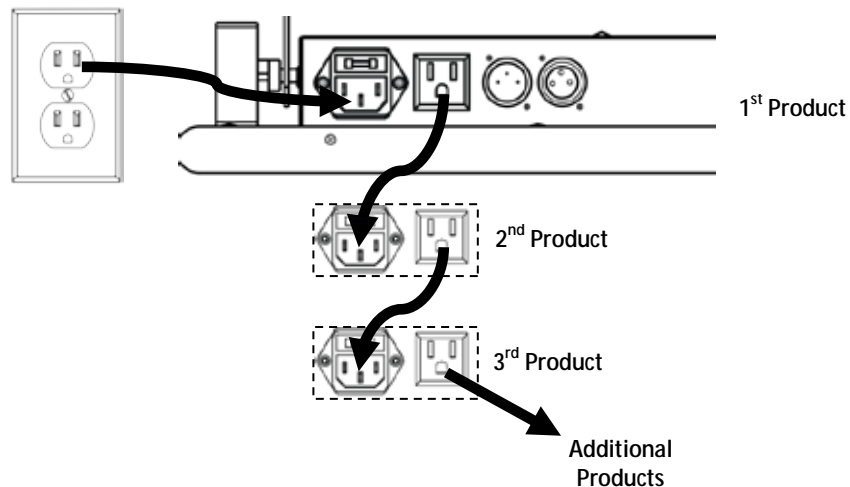
You can power link up to 43 LED Shadow™ products on 120 VAC or up to 74 LED Shadow™ products on 230 VAC.

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 LED Shadow™ 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. See the Technical Specifications 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, use a mounting clamp of appropriate weight capacity.
- When power linking multiple products, mount the products close enough for power linking cables 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

Mounting Clamp (such as the **CLP-15N** from Chauvet)

Bracket Adjustment Knob x 2

Mounting Bracket

Safety Cable (such as **CH-05** from Chauvet)

Flush Mounting Bracket

Flush Mounting to Wall (Drywall Screws x 4)
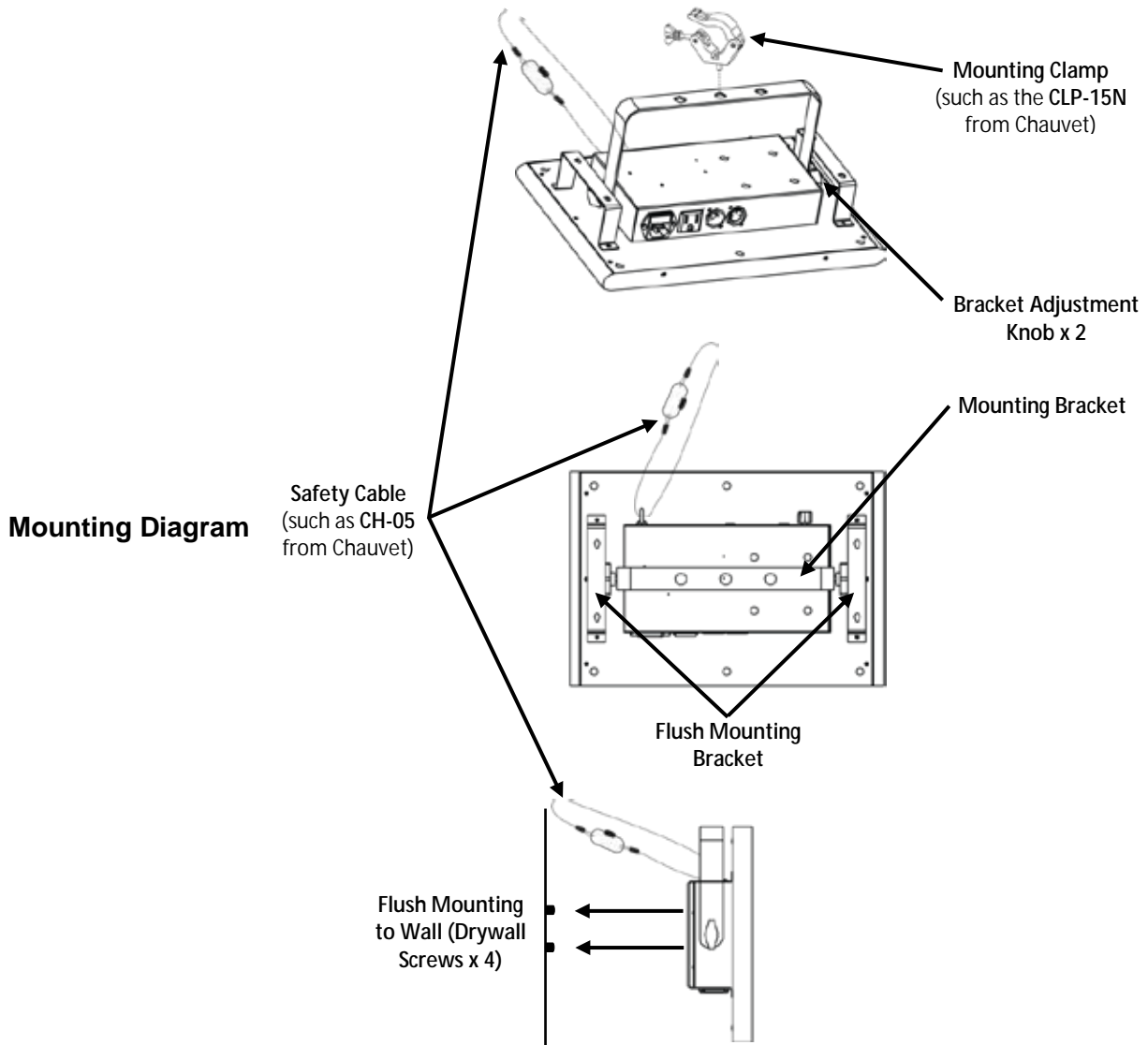
4. OPERATION

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
<ENTER>	Navigates upwards through the menu list and increases the numeric value when in a function
<UP>	Navigates downwards through the menu list and decreases the numeric value when in a function
<DOWN>	Enables the currently displayed menu or sets the currently selected value into the selected function

Menu Map

Main Level	Programming Steps		Description
Aut (automatic)	**Aut0**	**S. 01–99**	Automated programs and speed
	Aut1		
	Aut2		
	Aut3		
	Aut4		
	Aut5		
Sou (sound-active)	**Soud**		Sound-Active mode
CoL	**CoLo**	**L.000–255** (UV)	Dimmer
		S. 0–8	Strobe rate
Addr	**d001–510**		3-channel DMX mode
SLA	**SLAV**		Slave mode
SYS	**LEdS**	**On**	Display timeout on
		oFF	Display timeout off
	tESt		Performs a test of all LEDs
	rEST		Resets the software

	The LED Shadow™ 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.
DMX Linking	

Configuration (DMX)

Set the product in DMX mode to control with a DMX controller.
1. Connect the product to a suitable power outlet.
2. Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.

DMX Starting Address

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

The LED Shadow™ uses 3 DMX channels, which defines the highest configurable address to **510**. If you are not familiar with the DMX protocol, download the DMX Primer from www.chauvetlighting.com.

To select the starting address, do the following:
1. Press **<MENU>** repeatedly until **Addr** shows on the display.
2. Press **<ENTER>** and **d001–510** will show on the display.
3. Use **<UP>** or **<DOWN>** to select the starting address.
4. Press **<ENTER>**.

DMX Channel Assignments and Values

3-CH

Channel	Function	Value	Percent/Setting
1	**Mode**	000	No function
		001 ↔ 039	Dimmer mode
		040 ↔ 079	Automatic mode 1
		080 ↔ 119	Automatic mode 2
		120 ↔ 159	Automatic mode 3
		160 ↔ 199	Automatic mode 4
		200 ↔ 239	Automatic mode 5
		240 ↔ 255	Sound-active
2	**Strobe Mode Speed** (When Ch. 1 is 001 ↔ 039)	000 ↔ 009	No strobe
		010 ↔ 255	Strobe speed (0–100%)
	Auto Mode Speed (When Ch. 1 is 040 ↔ 239)	000 ↔ 255	Automatic mode speed (slow to fast)
	No Function (When Ch. 1 is 240 ↔ 255)	000 ↔ 255	No function
3	**Intensity**	000 ↔ 255	100–0%

Configuration (Standalone)

Set the product in one of the standalone modes to control without a DMX controller.

Connect the product to a suitable power outlet.

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.

Auto Programs

To run an auto program, do the following:
1. Press **<MENU>** repeatedly until **Aut** shows on the display.
2. Press **<ENTER>** and **Aut0–5** will show on the display.
3. Use **<UP>** or **<DOWN>** to select the desired program.
4. Press **<ENTER>** and **S. 01–99** will show on the display.
5. Use **<UP>** or **<DOWN>** to increase or decrease the program speed.
6. Press **<ENTER>**.

Sound-Active

To run the LED Shadow™ in sound-active mode, follow the instructions below:
1. Press **<MENU>** repeatedly until **Sou** shows on the display.
2. Press **<ENTER>**. **Soud** will show on the display.
3. Turn the sensitivity knob until the product responds to the beat of the music.

In Sound-Active mode, the product will only respond to low frequencies of music (bass and drums).

Manual Mode

To run the LED Shadow™ in manual mode, follow the instructions below:
1. Press **<MENU>** repeatedly until **CoL** shows on the display.
2. Press **<ENTER>** and **CoLo** will show on the display.
3. Press **<ENTER>** again and **L.000–255** will show on the display.
4. Use **<UP>** or **<DOWN>** to increase or decrease the dimmer value.
5. Press **<ENTER>** and **S. 0–8** will show on the display.
6. Use **<UP>** or **<DOWN>** to increase or decrease the strobe rate.
7. Press **<ENTER>**.

Display Timeout

To turn the display timeout on or off, do the following:
1. Press **<MENU>** until **SYS** shows on the display.
2. Press **<ENTER>** and **LEdS**, **tESt**, or **rESt** will show on the display.
3. Use **<UP>** or **<DOWN>** to select **LEdS**.
4. Press **<ENTER>** and **on** or **oFF** will show on the display.
5. Use **<UP>** or **<DOWN>** to select whether the display timeout should be **on** or **oFF**.
6. Press **<ENTER>**.

Test Mode

To run a test of the LEDs, follow the instructions below:
1. Press **<MENU>** until **SYS** shows on the display.
2. Press **<ENTER>** and **LEdS**, **tESt**, or **rESt** will show on the display.
3. Use **<UP>** or **<DOWN>** to select **tESt**.
4. Press **<ENTER>**.

Reset

To reset the software of the LED Shadow™, do the following:
1. Press **<MENU>** until **SYS** shows on the display.
2. Press **<ENTER>** and **LEdS**, **tESt**, or **rESt** will show on the display.
3. Use **<UP>** or **<DOWN>** to select **rESt**.
4. Press **<ENTER>**.

IRC-6 Infrared Remote Control

The LED Shadow™ is compatible with the IRC-6 infrared remote control from Chauvet. Make sure to point the IRC-6 directly at the receiver on the front of the product.

IRC-6 Operation

Auto Mode

To run Auto mode:

1. Press **<AUTO>** to activate Auto program 0.
2. Press **<1>** – **<5>** to activate one of the other programs.
3. Use **<+>** or **<–>** to increase or decrease the program speed.

Sound-Active Mode

To turn on Sound-Active mode:

Press **<SOUND>** on the IRC-6.

Manual Control

To manually control the intensity level:

1. Press **<MANUAL>** or **<UV>** on the IRC-6.
2. Press **<+>** or **<–>** to increase or decrease the output level.

Strobe Mode

To activate Strobe mode:

1. Press **<STROBE>** on the IRC-6.
2. Press **<+>** or **<–>** to increase or decrease the strobe rate.

To deactivate the strobe, switch to another mode.

Black Out

To black out the LEDs:

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

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

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

All other buttons on the IRC-6 infrared remote control have no function with this product.

Master/Slave Mode

The Master/Slave mode allows a single LED Shadow™ product (the "master") to control the actions of one or more LED Shadow™ products (the "slaves") without the need of a DMX controller. The master product will be set to operate in either Automatic mode, Sound-Active 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 **<MODE>** until **SLA** shows on the display.
2. Press **<ENTER>** to accept. **SLAV** will show in the display.
3. Connect the DMX input of the first slave product to the DMX output of the master product.
4. Connect the DMX input of the subsequent slave products to the DMX output of the previous slave product.
5. Finish setting and connecting all the slave products.

Master product:

1. Set the master product to run in Auto mode, Sound-Active 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.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight	**Length**	**Width**	**Height**	**Weight**
	14 in (356 mm)	9.8 in (248 mm)	6.5 in (165 mm)	4.9 lb (2.2 kg)

Note: Dimensions in inches rounded to the nearest decimal digit.

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	12 W	11 W
Operating Current	0.1 A	0.1 A
Power linking current (products)	8 A (43 products)	8 A (74 products)
Fuse	F 1 A, 250 V	F 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	**Power**	**Lifespan**
LED	0.25 W	100,000 hours

Color	**Quantity**	**Current**
UV	192	20 mA

Photometrics

Parameter	
Coverage Angle	28°
Wavelength	405 nm

Thermal

Maximum External Temp.	**Cooling System**
104 °F (40 °C)	Convection

DMX

I/O Connectors	**Channel Range**
3-pin XLR	3

Ordering

Product Name	**Item Code**	**UPC Number**
LED Shadow™	10031085	781462214333

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 UK or Ireland, contact Chauvet Europe Ltd.
- If you are located in Mexico, contact Chauvet Mexico.
- If you are located in Benelux, contact Chauvet Europe BVBA.
- If you are located in any other country, DO NOT contact Chauvet. Instead, contact your local distributor. See www.chauvetlighting.com for distributors outside the U.S., UK, Ireland, Mexico, or Benelux.

If you are located outside the U.S., UK, Ireland, Mexico, or Benelux, contact your distributor of record and follow their instructions on how to return Chauvet products to them. Visit our website www.chauvetlighting.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.

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

WORLD HEADQUARTERS - Chauvet

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World Wide Web www.chauvetlighting.eu

Outside the U.S., United Kingdom, Ireland, Mexico, or Benelux contact your dealer. Follow their instructions to request support or to return a product. Visit our website for contact details.