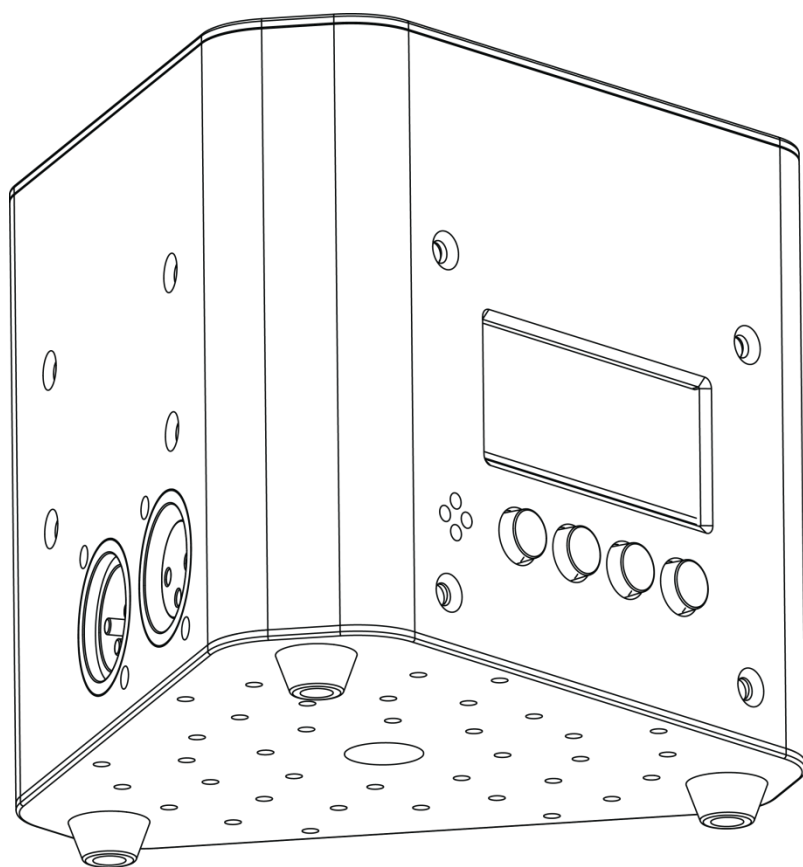


Wedge™ Tri

User Manual



CHAUVET®
It's **Green** Thinking.™

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1. BEFORE YOU BEGIN

What is Included

- Wedge™ Tri
- Power Cord
- IRC-6 (Infrared Remote Control 6)
- 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
	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 User Manual are subject to change without notice. CHAUVET® assumes no responsibility or liability for any errors or omissions, and reserves the right to revise or recreate this manual at any time. Download the latest version from www.chauvetlighting.com.

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Electronically published by CHAUVET® in the United States of America.

Author	Date	Editor	Date
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Product at a Glance

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

Safety Notes

These notes include important information about the mounting, usage, and maintenance of this product; read before using the product.



- 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.



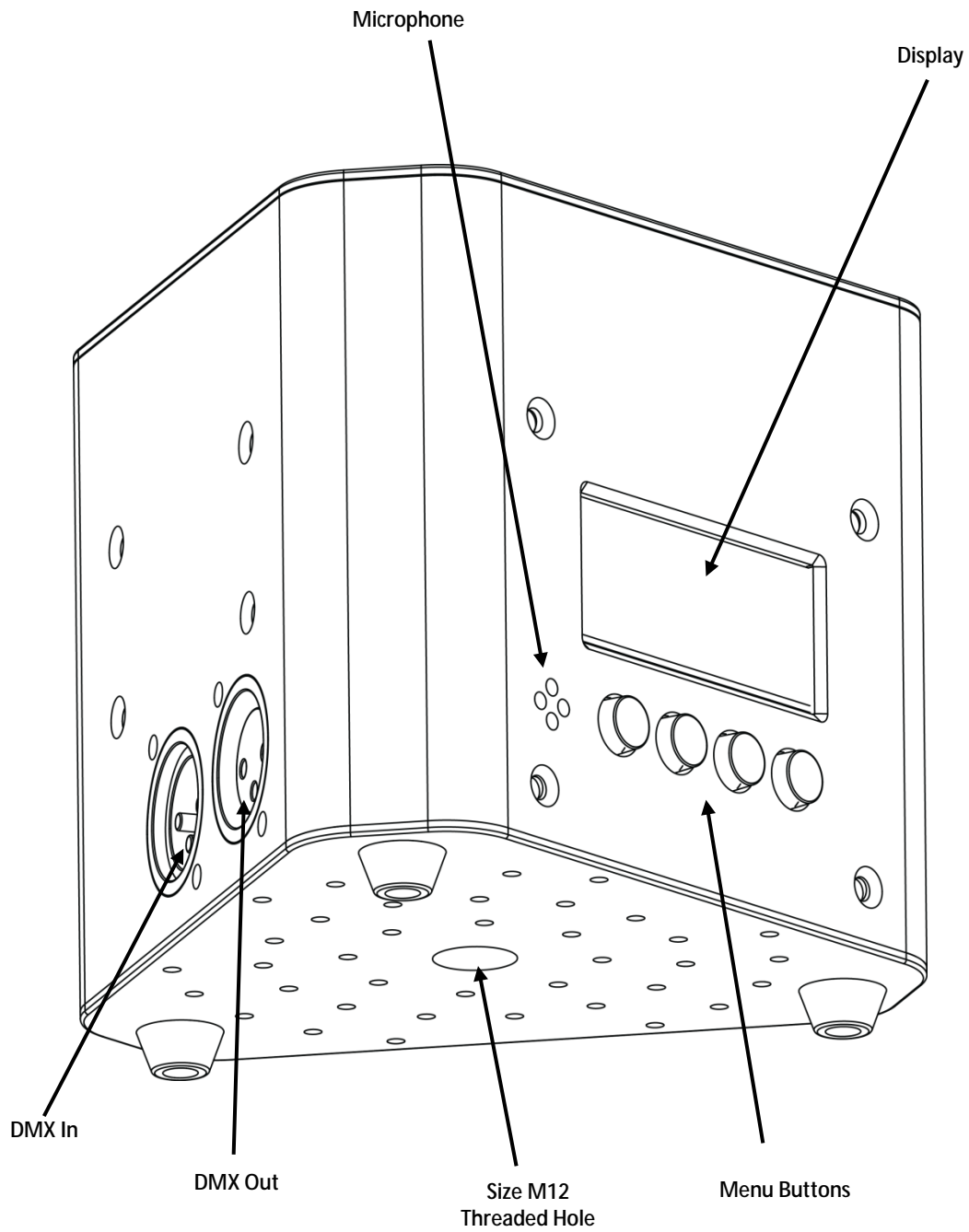
- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- The product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose the product to rain or moisture.
- Always install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



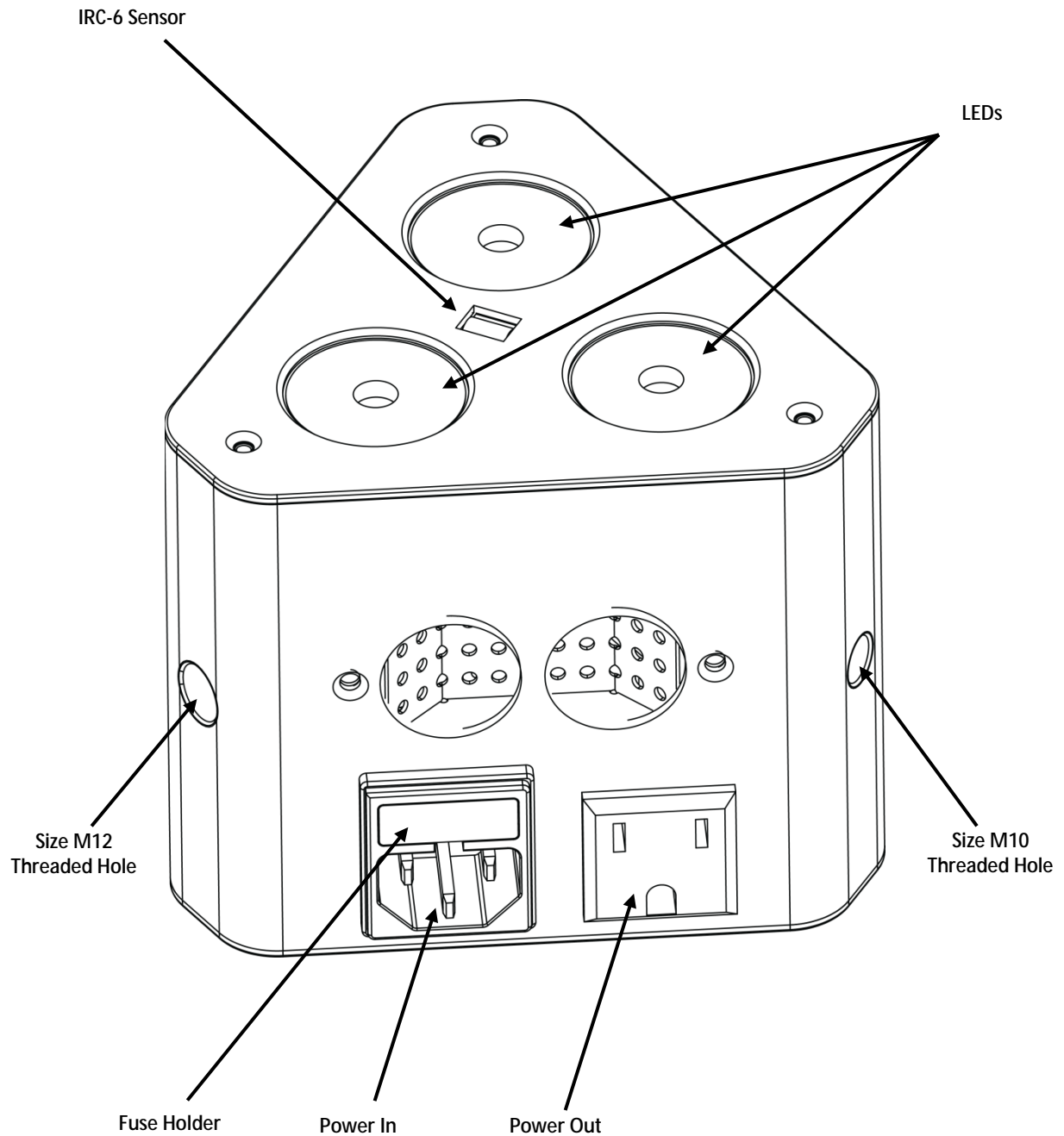
- Keep this User Manual for future use. If you sell the product to another user, be sure to give this document to the next owner.

2. INTRODUCTION

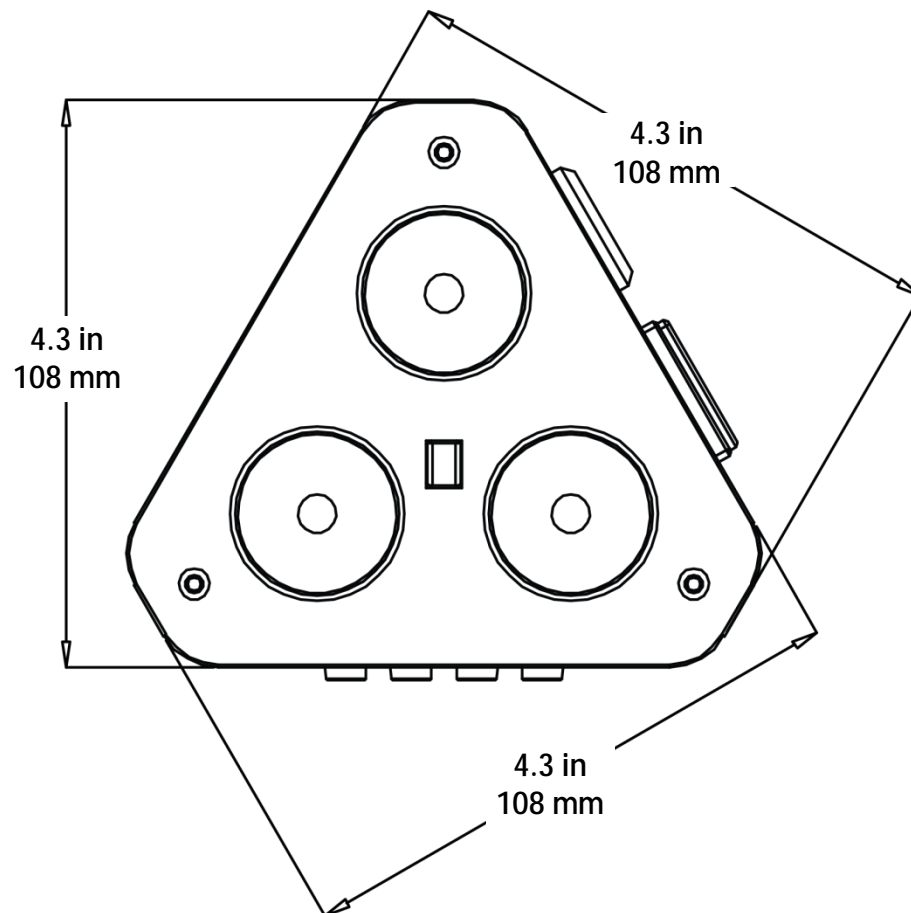
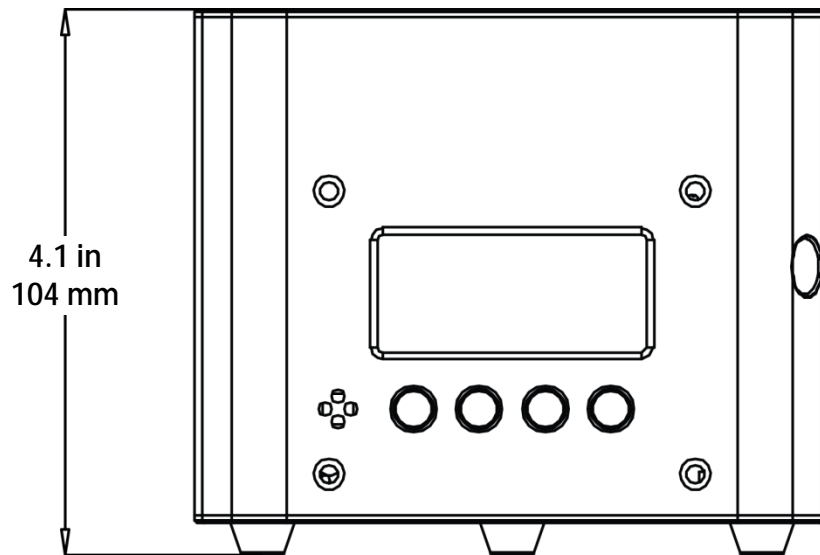
Overview



Overview (cont.)



Dimensions



3. SETUP

AC Power The Wedge™ Tri 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.



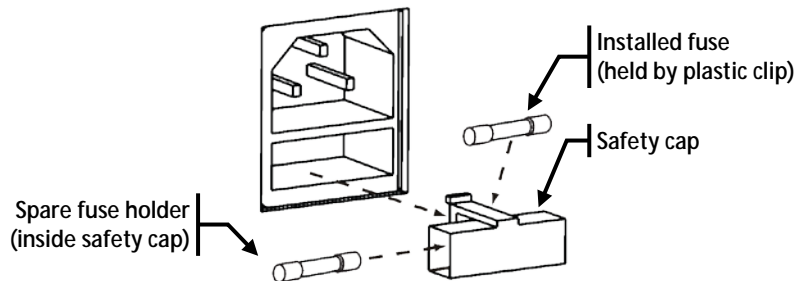
Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

Fuse Replacement



Disconnect the product from power before replacing the fuse.

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.
5. Replace with a fuse of the exact same type and rating.
6. Insert the fuse holder back in place and reconnect power.

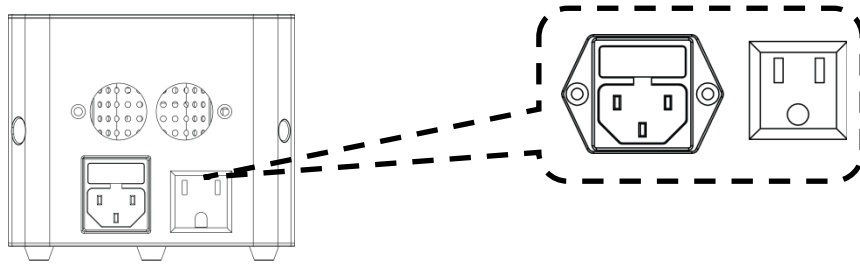


A spare fuse is not included; however, the safety cap has room for a spare.

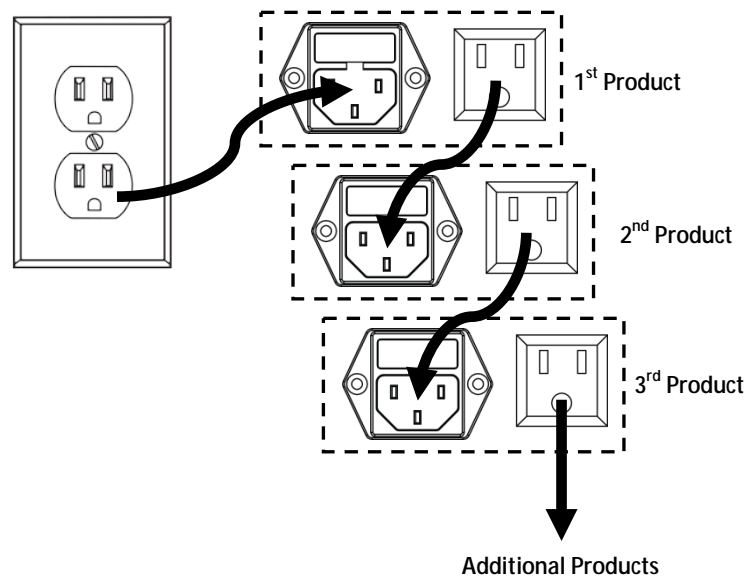


Always replace a blown fuse with another of the same type and rating.

Power Linking The product provides power linking via the Edison/IEC outlet located in the back of the unit.



Power Linking Diagram



You can power link up to 42 Wedge™ Tri units on 120 V or up to 74 units on 230 V.

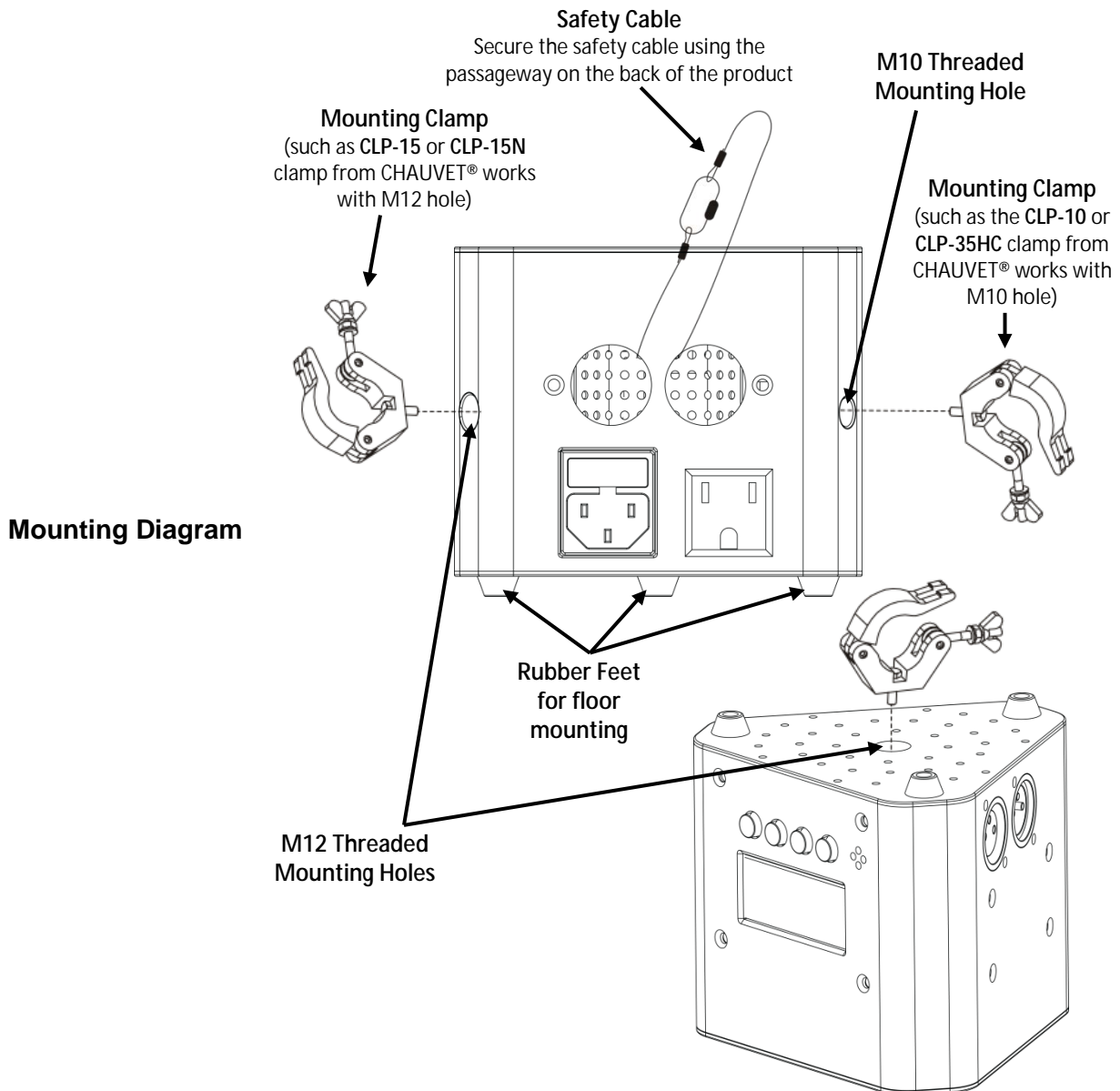


The power linking diagram shown above corresponds to the North American version of the product **ONLY!** If using the product in other markets, you must consult with the local CHAUVET® distributor as power linking connectors and requirements may differ in your country or region.

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

Orientation The Wedge™ Tri 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 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, such as an elevated platform or a truss.
 - When rigging the product onto a truss, you should use a mounting clamp of appropriate weight capacity. The Wedge™ Tri has 3 threaded mounting holes which are appropriate for this purpose (two size M12 holes and one size M10 hole).
 - 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 rubber feet also serve as floor supports. When mounting the product on the floor, make sure that the product and cables are away from people and vehicles.



4. OPERATION

Control Panel Operation

To access the control panel functions, use the four buttons located underneath the display.

Button	Function
<MENU>	Selects an operation mode
<UP>	Scrolls up the list of options or selects a higher value
<DOWN>	Scrolls down the list of options or selects a lower value
<ENTER>	Activates a menu option or a selected value

Menu Map

Main Function	Programming Levels		Description
DMX Personalities and Starting Address	3-CH	d 1—d512	Selects DMX personality and starting address
	8-CH		
Static Colors	C--	C 1	Red
		C 2	Green
		C 3	Blue
		C 4	Cyan
		C 5	Magenta
		C 6	Yellow
		C 7	White
Automatic Programs	P--	P 1	Auto program 1 (3-color snap)
		P 2	Auto program 2 (3-color fade)
		P 3	Auto program 3 (7-color snap)
		P 4	Auto program 4 (7-color fade)
Program Speed	S--	S 1—S100	Selects auto program speed (slow to fast)
Sound-Active Mode	Snd	Snd1	3-color Sound-Active mode
		Snd2	7-color Sound-Active mode
Sound Sensitivity	SenS	u 0—u100	Sound sensitivity control
Custom Settings	U--	r 0—r255	Red (0—100%)
		g 0—g255	Green (0—100%)
		b 0—b255	Blue (0—100%)
Dimmer Mode	dIM	OFF	Dimmer speed off
		dIM1	Dimmer mode 1, fast speed
		dIM2	Dimmer mode 2, middle speed
		dIM3	Dimmer mode 3, slow speed
Infrared	SET	ON	Turns infrared on or off
		OFF	

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 Personality and 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 Wedge™ Tri uses up to 8 DMX channels in its 8-channel DMX mode, which defines the highest configurable address to **505**.

If unfamiliar with DMX, download the DMX Primer from www.chauvetlighting.com.

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

1. Press **<MENU>** repeatedly until **3-CH** (3-channel mode) or **8-CH** (8-channel mode) shows on the display.
2. Press **<ENTER>** and **d 1—d512** shows on the display.
3. Use **<UP>** or **<DOWN>** to select the starting address.
4. Press **<ENTER>**.

DMX Channel Modes, Assignments, and Values

8-Channel	Channel	Function	Value	Setting
	1	Red	000 ó 255	0—100%
	2	Green	000 ó 255	0—100%
	3	Blue	000 ó 255	0—100%
	4	Color Macros	000 ó 015 016 ó 255	No function Color macros
	5	Shutter	000 ó 015 016 ó 255	No function Strobe, slow to fast
		Speed	000 ó 255	Auto programs speed, slow to fast (when Channel 6 is 032—223)
	6	Auto Programs	000 ó 031	No function
			032 ó 063	0—100%
			064 ó 095	100%—0
			096 ó 127	100%—0—100%
			128 ó 159	Color fade
			160 ó 191	3-color snap
			192 ó 223	7-color snap
			224 ó 255	Sound-Active
	7	Dimmer	000 ó 255	0—100%
	8	Dimmer Mode	000 ó 051	Dimmer mode manually set in Menu Options
			052 ó 101	Dimmer mode off
			102 ó 152	Dimmer mode 1, (fast speed)
			153 ó 203	Dimmer mode 2, (medium speed)
			204 ó 255	Dimmer mode 3, (slow speed)

3-Channel	Channel	Function	Value	Setting
	1	Red	000 ó 255	0—100%
	2	Green	000 ó 255	0—100%
	3	Blue	000 ó 255	0—100%

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 (Static, Automatic, or Sound-Active) 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.

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>** and **Snd1** (3-color) or **Snd2** (7-color) shows on the display.
3. Use **<UP>** or **<DOWN>** to select the desired Sound-Active program.
4. Press **<ENTER>**.

Sound Sensitivity

To set the sound sensitivity, follow the instructions below:

1. Press **<MENU>** repeatedly until **SenS** shows on the display.
2. Use **<UP>** or **<DOWN>** to select the desired sound sensitivity (**u 0–u100**).
3. Press **<ENTER>**.



The product will only respond to low frequencies of music (bass and drums).

Automatic Mode

To select an auto program, do the following:

1. Press **<MENU>** repeatedly until **P--** shows on the display.
2. Press **<ENTER>** and **P 1–P 4** shows on the display.
3. Use **<UP>** or **<DOWN>** to select the desired auto program:
 - **P 1** - 3-color snap
 - **P 2** - 3-color fade
 - **P 3** - 7-color snap
 - **P 4** - 7-color fade
4. Press **<ENTER>**.

Program Speed

To set the auto program speed, follow the instructions below:

1. Press **<MENU>** repeatedly until **S--** shows on the display.
2. Use **<UP>** or **<DOWN>** to select the desired auto program speed (**S 1–S100**, slow to fast).
3. Press **<ENTER>**.

Static Colors

To select a preset static color, do the following:

1. Press **<MENU>** repeatedly until **C--** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select the desired preset color:
 - **C 1** - Red
 - **C 2** - Green
 - **C 3** - Blue
 - **C 4** - Cyan
 - **C 5** - Magenta
 - **C 6** - Yellow
 - **C 7** - White
4. Press **<ENTER>**.

Custom Color Mixing

To custom mix a color, follow the instructions below:

1. Press **<MENU>** repeatedly until **U--** shows on the display.
2. Press **<ENTER>** and one of the following colors shows on the display: **rXXX** (red), **gXXX** (green), or **bXXX** (blue).
3. Press **<ENTER>** repeatedly to select the desired color.
4. Use **<UP>** or **<DOWN>** to select the desired color value (**0–255**).
NOTE: Selecting **0** will turn the color off.
5. Press **<ENTER>** to select color value and continue to the next color.
6. Repeat steps 3 to 5 until you create your desired color.

Selecting the Dimmer Mode

To select the dimmer mode, do the following:

1. Press **<MENU>** repeatedly until **dIM** shows on the display.
2. Press **<ENTER>** and one of the following shows on the display:
 - **OFF** (dimmer speed off)
 - **dIM1** (dimmer mode 1, fast speed)
 - **dIM2** (dimmer mode 2, middle speed)
 - **dIM3** (dimmer mode 3, slow speed)
3. Use **<UP>** or **<DOWN>** to select the desired dimmer mode.
4. Press **<ENTER>**.

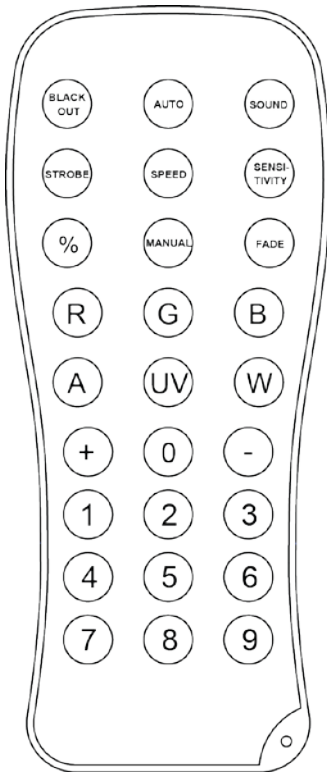
IRC-6 (Infrared Remote Control 6)

The Wedge™ Tri is fully compatible with the IRC-6 from CHAUVET®. To enable use with the IRC-6, follow the instructions below:

1. Press **<MENU>** repeatedly until **SET** shows on the display.
2. Press **<ENTER>** and **ON** (turns on the infrared sensor) or **OFF** (turns off the infrared sensor) shows on the display.
3. Press **<UP>** or **<DOWN>** to select the desired option.
4. Press **<ENTER>**.

IRC-6 (Infrared Remote Control 6) Operation

Note: Make sure to point the IRC-6 directly at the receiver on the product.



Automatic Mode

Automatic mode will enable you to run the automatic programs on the product.

To turn on Automatic mode:

1. Press **<AUTO>** on the IRC-6.
2. Press **<+>** or **<->** to choose between the different auto programs.

To adjust the speed of the automatic program:

1. Press **<SPEED>** on the IRC-6.
2. Press **<%>**.
3. Press **<+>** or **<->** to either increase or decrease the speed of the program.

Sound-Active Mode

Sound-Active mode will enable the product to respond to the music.

To turn on Sound-Active mode:

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

To adjust sound sensitivity in Sound-Active mode:

1. Press **<SENSITIVITY>** on the IRC-6.
2. Press **<%>**.
3. Press **<+>** or **<->** to either increase or decrease sound sensitivity.

Manual Color Control

To choose a specific color with the IRC-6:

1. Press **<MANUAL>** on the IRC-6.
2. Press any number between **<0>** and **<9>** to choose your color.

To manually control the RGBWA+UV percentage:

1. Press **<MANUAL>** on the IRC-6.
2. Press **<R>**, **<G>**, or **** (red, green, or blue) to choose your color.

Note: The Wedge™ Tri only contains red, green, and blue LEDs. The white, amber, and UV color options on the IRC-6 will only operate with fixtures capable of outputting these color lights.

3. Press **<+>** or **<->** to increase or decrease the percentage of each color.

Miscellaneous Operation

To adjust the strobe rate of the program:

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

To fade the light output:

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

To black out the lights:

- 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 the Black Out mode is activated. If the remote does not respond when a button is pressed, try pressing **<BLACK OUT>**. You may have inadvertently activated the Black Out mode.

Master/Slave Mode

The Master/Slave mode allows a single Wedge™ Tri (the “master”) to control the actions of one or more Wedge™ Tri units (the “slaves”) without the need of a DMX controller. The master will be set to operate in either Automatic or Sound-Active mode, while the slaves will be set to operate in Slave mode. Once set and connected, the slaves will operate in unison with the master.

Configure the units as indicated below.

Slaves:

1. Press **<MENU>** repeatedly until any DMX personality shows on the display.
2. Press **<ENTER>** to accept.
3. Set the DMX address to **d 1**.
4. Connect the DMX input of the first slave to the DMX output of the master.
5. Connect the DMX input of the subsequent slaves to the DMX output of the previous slave.
6. Finish setting and connecting all the slaves.

Master:

1. Set the master to operate in either Automatic or Sound-Active mode.
2. Make the master the first unit in the DMX daisy chain.



- **Configure all the slaves before connecting the master to the DMX 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. 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. To maintain optimum performance and minimize wear, clean the product at least twice a month. However, usage and environmental conditions contribute to increased cleaning frequency.

To clean the product, follow the instructions below:

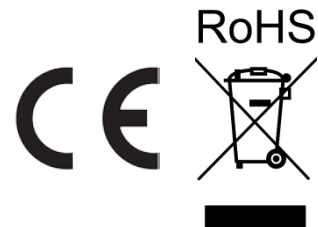
- Unplug the product from power.
- Wait until the product is at room temperature.
- Use a vacuum (or dry compressed air) and a soft brush to remove dust collected on the external surfaces and vents.
- Clean all external optics and transparent surfaces with a mild soap solution, ammonia-free glass cleaner, or isopropyl alcohol.
- Apply the solution directly to a soft, lint-free cotton cloth or a lens cleaning tissue.
- Softly wipe any dirt or grime to the outside edges of the external optics or transparent surface.
- Gently polish the external optics and transparent surfaces until they are free of haze and lint.



Always dry the external optics and transparent surfaces carefully after cleaning them.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight	Length	Width	Height	Weight
	4.3 in (108 mm)	4.3 in (108 mm)	4.1 in (104 mm)	1.4 lb (0.6 kg)
Note: Dimensions in inches rounded to the nearest decimal digit.				
Power	Power Supply Type		Range	Voltage Selection
	Switching (internal)		100 to 240 V, 50/60 Hz	Auto-ranging
	Parameter		120 V, 60 Hz	230 V, 50 Hz
	Consumption		23 W	26 W
	Operating current		0.2 A	0.1 A
	Power linking current (units)		8 A (42 units)	8 A (74 units)
	Fuse		T 1 A, 250 V	T 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		3 W	50,000 hours
	Color		Quantity	Current
	Tri-color		3	350 mA x 3
Photo Optic	Parameter			
	Illuminance @ 2 m		1,066 lx	
	Beam angle		16°	
	Field angle		30°	
	Strobe Rate		0 to 17 Hz	
Thermal	Maximum External Temp.		Cooling System	
	104 °F (40 °C)		Convection	
DMX	I/O Connectors		Connector Type	Channel Range
	3-pin XLR		Sockets	3, 8
Ordering	Product Name		Item Code	UPC Number
	Wedge™ Tri		03030735	781462210830



To return a product or request support:

- In the U.S., contact CHAUVET® World Headquarters (see below).
- In the UK or Ireland, contact CHAUVET® Europe Ltd. (see below).
- In Mexico, contact CHAUVET® Mexico (see below).
- In any other country, DO NOT contact CHAUVET®. Contact your distributor. 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.

Returns

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.

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
- 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®

General Information

Address: 5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 577-4455
Fax: (954) 929-5560
Toll free: (800) 762-1084

Technical Support

Voice: (954) 577-4455 (Press 4)
Fax: (954) 756-8015
Email: tech@chauvetlighting.com

World Wide Web www.chauvetlighting.com

UNITED KINGDOM AND IRELAND - CHAUVET® Europe Ltd.

General Information

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Pinxton, Nottingham, UK
NG16 6NT
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Fax: +44 (0)1773 511110

Technical Support

Email: uktech@chauvetlighting.com

World Wide Web www.chauvetlighting.co.uk

MEXICO - CHAUVET® Mexico

General Information

Address: Av. Santa Ana 30
Parque Industrial Lerma
Lerma, Mexico C.P. 52000
Voice: +52 (728) 285-5000

Technical Support

Email: servicio@chauvet.com.mx

World Wide Web www.chauvet.com.mx

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