SlimBANK™ TRI-18

User Manual
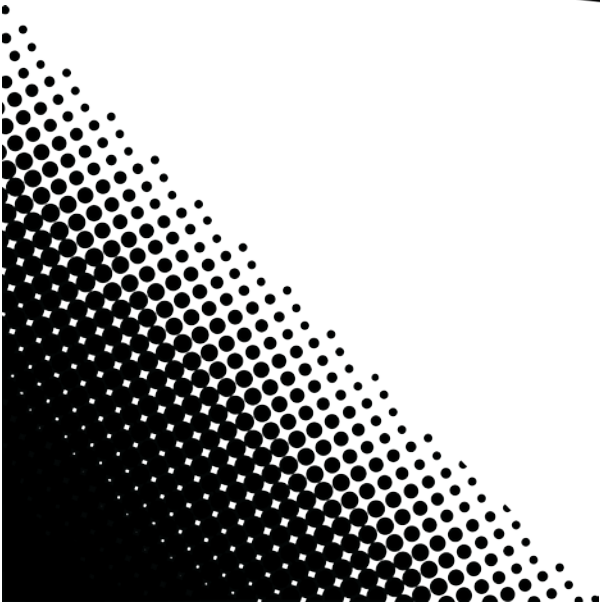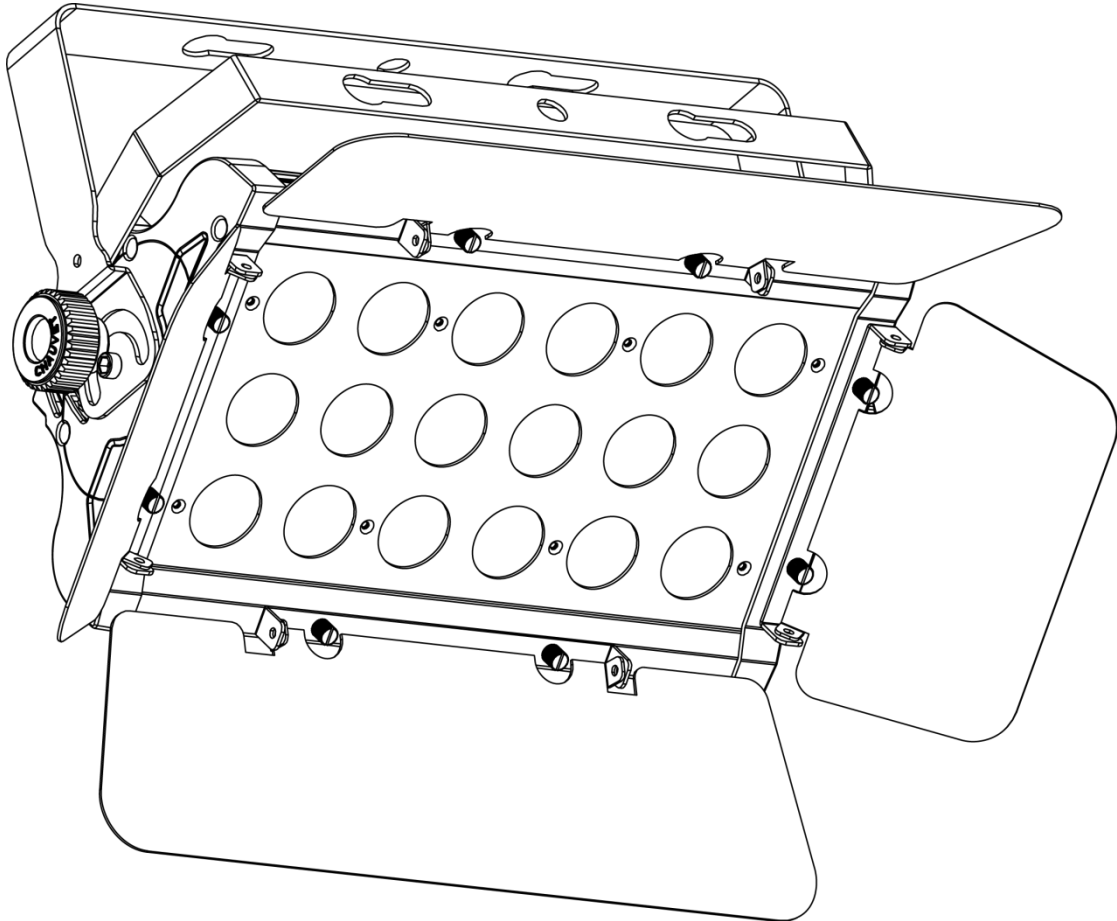
CHAUVET DJ

It's Green Thinking

TABLE OF CONTENTS

1. BEFORE YOU BEGIN

What Is Included
- SlimBANK™ TRI-18
- Power cord
- Hanging bracket with mounting hardware
- Barn doors
- 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 to 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.

© Copyright 2013 CHAUVET®. All rights reserved.

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

Author	Date	Editor	Date
A. Leon	08/06/13	T. Yeago	08/06/13

Product at a Glance

Use on Dimmer	✘	Auto Programs	P
Outdoor Use	✘	Auto-ranging Power Supply	P
Sound-Activated	P	Replaceable Fuse	P
DMX	P	User-Serviceable	✘
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.

- 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. 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

Fuse Holder

Power In

DMX In

Safety Loop

Microphone

Display

Menu Buttons

Back Panel View

Power Out

DMX Out

Dimensions

15.3 in
389 mm

7.4 in
187 mm

7.7 in
197 mm
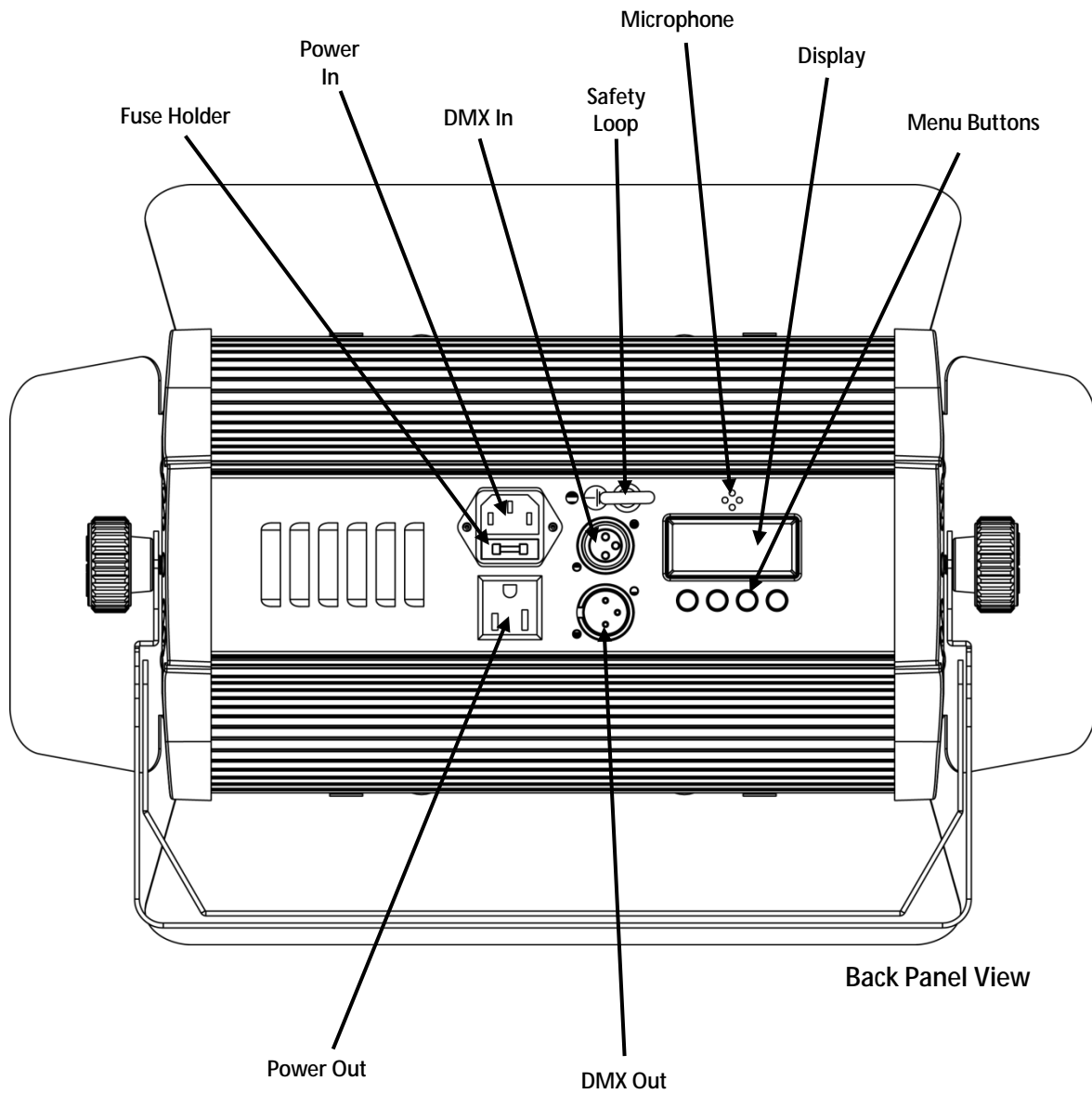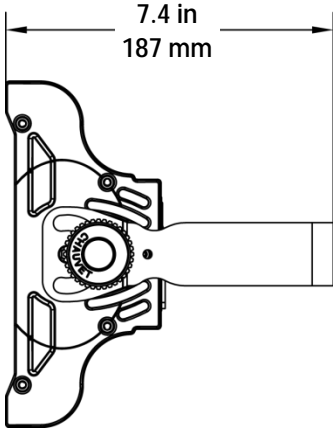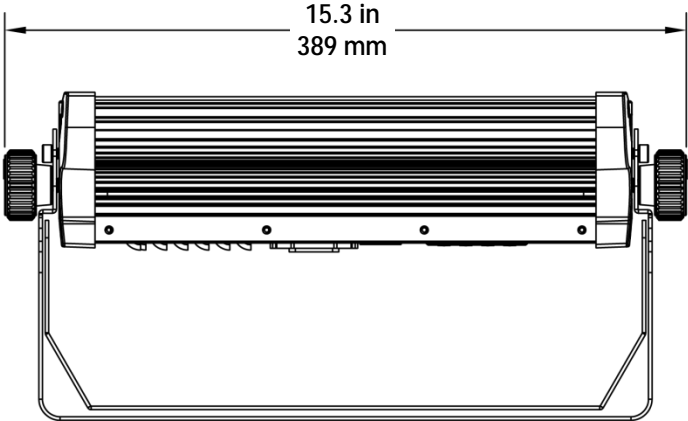
3. SETUP

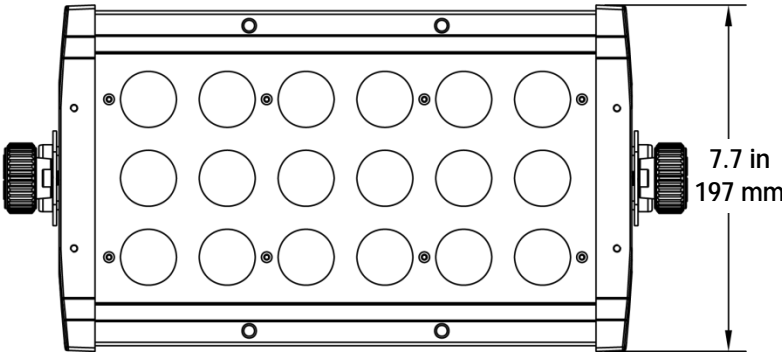**AC Power** The SlimBANK™ TRI-18 has an auto-ranging power supply and it can work with an input voltage range of 100 to 240 VAC, 50/60 Hz.

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.**

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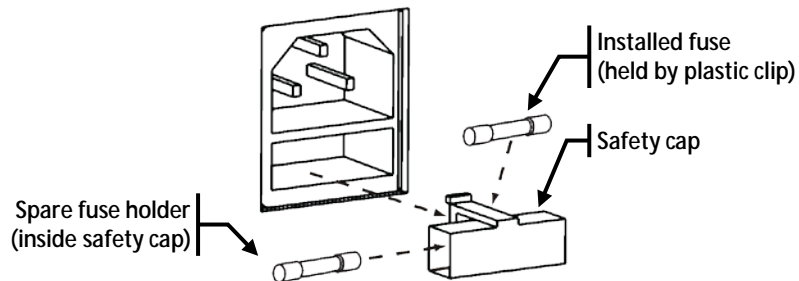
📝 A spare fuse is not included; however, the safety cap has room for a spare.

⚠ 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 front/back of the unit.

Power Linking Diagram

1st Product   2nd Product   3rd Product

Additional Products
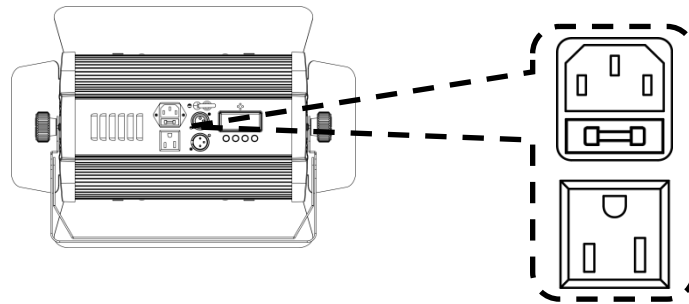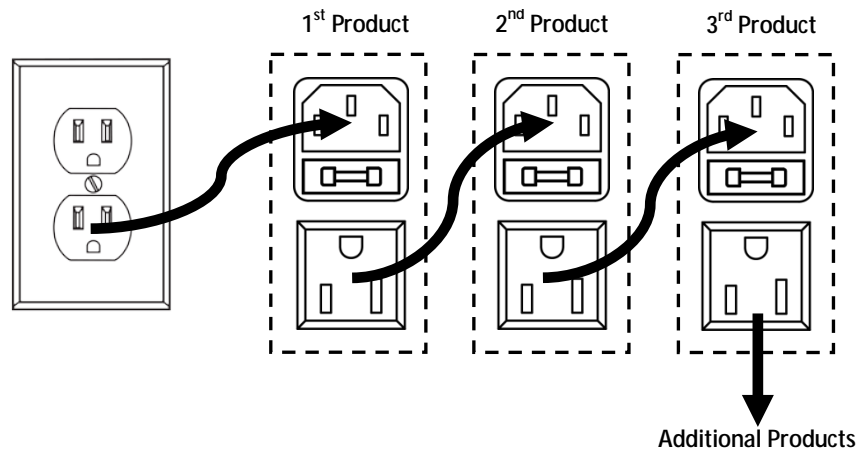
You can power link up to 9 SlimBANK™ TRI-18 units on 120 VAC or up to 16 SlimBANK™ TRI-18 units on 230 VAC.

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 SlimBANK™ TRI-18 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 bracket has a 13-mm holes, which are 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.
- The double-bracketed yoke also serves as floor supports. When mounting the product on the floor, make sure that the product and cables are away from people and vehicles.

Mounting Diagram

Double-Bracketed Yoke

Mounting Clamps

Safety Cable

Bracket Adjustment Knobs

Overhead Mount

Floor Mount
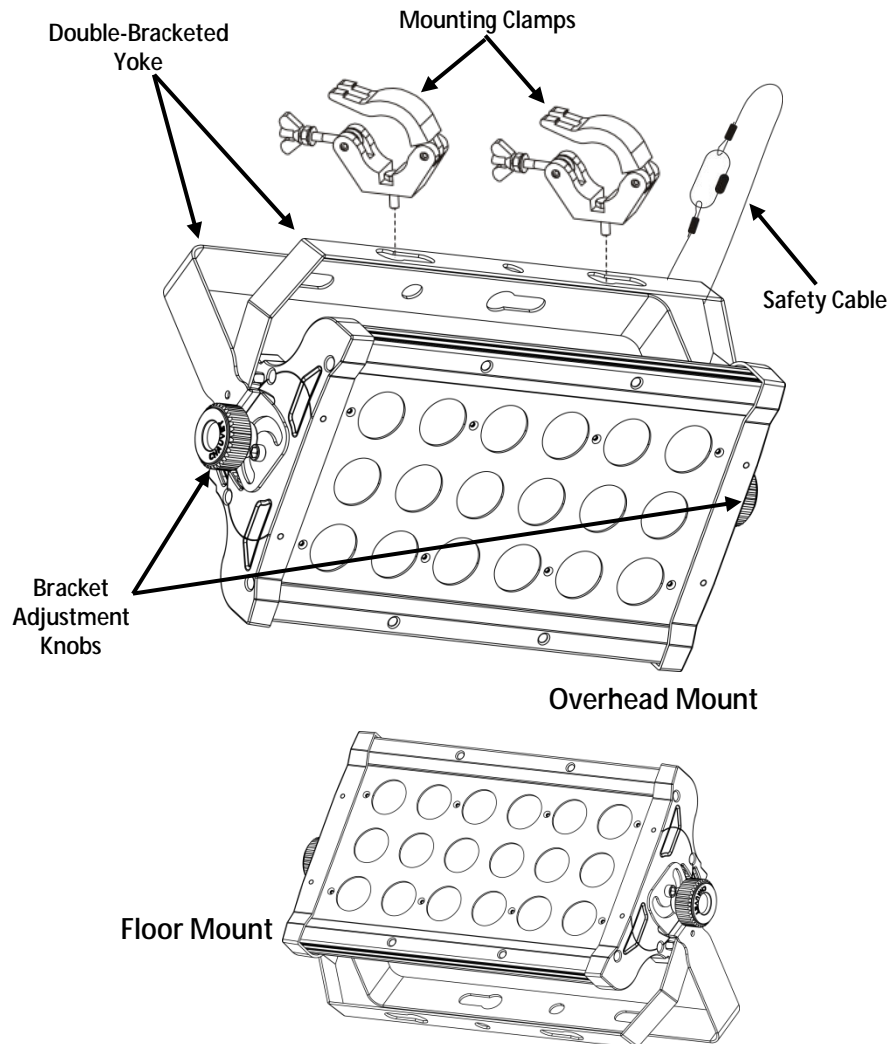
4. OPERATION

Control Panel Operation

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

Button	Function
<MENU>	Selects an operation mode or backs out of the current menu option
<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

Mode	Programming Steps		Description
DMX Personalities and Starting Address	**3-CH**	**d 1—d512**	Selects DMX personality and starting address
	5-CH		
	9-CH		
	13CH		
Static Colors	**C--**	**r**	Red
		g	Green
		b	Blue
		gb	Cyan
		r b	Magenta
		rg	Yellow
		rgb	White
Auto Program	**P--**	**P 1—P 14**	Selects auto program
Program Speed	**S--**	**S 1—S100**	Selects auto program speed (slow to fast)
Sound-Active Mode	**Snd**		Sound-Active mode
Sound Sensitivity	**SenS**	**u 0—u100**	Sound sensitivity control
Custom Color Mixing	**U--**	**r 0—r255**	Red (0 to 100%)
		g 0—g255	Green (0 to 100%)
		b 0—b255	Blue (0 to 100%)
Dimmer	**dIM**	**OFF**	Dimmer, speed off
		dIM1	Dimmer, fast speed
		dIM2	Dimmer, middle speed
		dIM3	Dimmer, slow speed
Temperature	**tEMP**		Displays temperature of LEDs

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 Personalities 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 SlimBANK™ TRI-18 uses up to 13 DMX channels in its 13-channel DMX personality, which defines the highest configurable address to **500**.

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), **5-CH** (5-channel mode), **9-CH** (9-channel mode), or **13CH** (13-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>**.

SlimBANK™ TRI-18 Sections for DMX Control
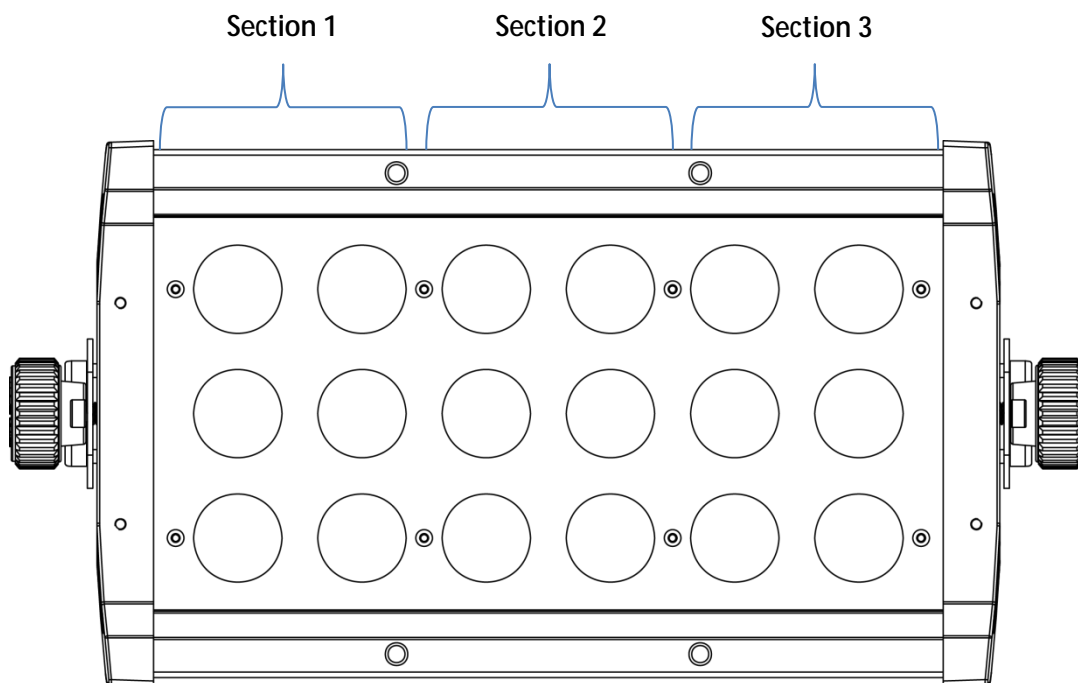
DMX Channel Modes, Assignments, and Values

13-Channel

Channel	Function	Value	Setting	
1	Red	000 ↔ 255	0 to 100%	
2	Green	000 ↔ 255	0 to 100%	Section 1
3	Blue	000 ↔ 255	0 to 100%	
4	Red	000 ↔ 255	0 to 100%	
5	Green	000 ↔ 255	0 to 100%	Section 2
6	Blue	000 ↔ 255	0 to 100%	
7	Red	000 ↔ 255	0 to 100%	
8	Green	000 ↔ 255	0 to 100%	Section 3
9	Blue	000 ↔ 255	0 to 100%	
10	Auto Programs	000 ↔ 010 011 ↔ 028 029 ↔ 045 046 ↔ 062 063 ↔ 079 080 ↔ 096 097 ↔ 113 114 ↔ 130 131 ↔ 147 148 ↔ 164 165 ↔ 181 182 ↔ 198 199 ↔ 215 216 ↔ 232 233 ↔ 250 251 ↔ 255	No function Chase 1 Chase 2 Chase 3 Chase 4 Chase 5 Chase 6 Chase 7 Chase 8 Chase 9 Chase 10 Chase 11 Chase 12 Chase 13 Chase 14 (random Chases 1—13) Sound-Active mode	
11	Speed	000 ↔ 255	Auto programs speed (slow to fast)	
12	Dimmer	000 ↔ 255	0 to 100%	
13	Shutter	000 ↔ 010 011 ↔ 255	No function Strobe (slow to fast)	

9-Channel

Channel	Function	Value	Setting
1	Dimmer	000 ↔ 255	0 to 100%
2	Red	000 ↔ 255	0 to 100%
3	Green	000 ↔ 255	0 to 100%
4	Blue	000 ↔ 255	0 to 100%
5	Shutter	000 ↔ 010	No function
		011 ↔ 255	Strobe (slow to fast)
6	Custom Color and Color Temperature	000 ↔ 010	No function
		011 ↔ 030	Red 100% + Green 0 to 100%
		031 ↔ 050	Red 100% to 0 + Green 100%
		051 ↔ 070	Green 100% + Blue 0 to 100%
		071 ↔ 090	Green 100% to 0 + Blue 100%
		091 ↔ 110	Red 0 to 100% + Blue 100%
		111 ↔ 130	Red 100% + Blue 100% to 0
		131 ↔ 150	Red 100% + Green 0 to 100% + Blue 0 to 100%
		151 ↔ 170	Red 100% to 0 + Green 100% to 0 + Blue 100%
		171 ↔ 200	Red 100% + Green 100% + Blue 100%
		201 ↔ 205	Color temperature 1
		206 ↔ 210	Color temperature 2
		211 ↔ 215	Color temperature 3
		216 ↔ 220	Color temperature 4
		221 ↔ 225	Color temperature 5
		226 ↔ 230	Color temperature 6
		231 ↔ 235	Color temperature 7
		236 ↔ 240	Color temperature 8
		241 ↔ 245	Color temperature 9
		246 ↔ 250	Color temperature 10
		251 ↔ 255	Color temperature 11
7	Auto Programs	000 ↔ 010	No function
		011 ↔ 028	Chase 1
		029 ↔ 045	Chase 2
		046 ↔ 062	Chase 3
		063 ↔ 079	Chase 4
		080 ↔ 096	Chase 5
		097 ↔ 113	Chase 6
		114 ↔ 130	Chase 7
		131 ↔ 147	Chase 8
		148 ↔ 164	Chase 9
		165 ↔ 181	Chase 10
		182 ↔ 198	Chase 11
		199 ↔ 215	Chase 12
		216 ↔ 232	Chase 13
		233 ↔ 250	Chase 14 (random Chases 1 to 13)
		251 ↔ 255	Sound-Active mode
8	Speed	000 ↔ 255	Auto programs speed (slow to fast)
9	Dimmer Mode	000 ↔ 051	Dimmer mode manually set in Menu Options
		052 ↔ 101	Dimmer mode off
		102 ↔ 152	Dimmer mode 1 (fast speed)
		153 ↔ 203	Dimmer mode 2 (middle speed)
		204 ↔ 255	Dimmer mode 3 (slow speed)

5-Channel

Channel	Function	Value	Setting
1	Dimmer	000 ↔ 255	0 to 100%
2	Red	000 ↔ 255	0 to 100%
3	Green	000 ↔ 255	0 to 100%
4	Blue	000 ↔ 255	0 to 100%
5	Shutter	000 ↔ 010	No function
		011 ↔ 255	Strobe (slow to fast)

3-Channel

Channel	Function	Value	Setting
1	Red	000 ↔ 255	0 to 100%
2	Green	000 ↔ 255	0 to 100%
3	Blue	000 ↔ 255	0 to 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, Auto, 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>**.

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).

Auto Program

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 14** shows on the display.
3. Use **<UP>** or **<DOWN>** to select the desired auto program.
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>** and **r** (red), **g** (green), **b** (blue), **gb** (cyan), **r b** (magenta), **rg** (yellow), or **rgb** (white) shows on the display.
3. Use **<UP>** or **<DOWN>** to select the desired preset color.
4. Press **<ENTER>**.

Custom Color To custom mix a color, follow the instructions below:
Mixing
1. Press **<MENU>** repeatedly until **U--** shows on the display.
2. Press **<ENTER>** and one of the following colors shows on the display: **r*XXX*** (red)**, g*XXX*** (green), or **b*XXX*** (blue).
3. Press **<ENTER>** repeatedly to select the desired color.
4. Use **<UP>** or **<DOWN>** to select the desired color value **0**–**255** (0 to 100%).
    NOTE: Selecting **0** will turn the color off.
5. Press **<ENTER>** to set the color value and continue to the next color.
6. Repeat steps 3 to 5 until you create your desired color.

Selecting the To select the dimmer mode, do the following:
Dimmer Mode
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>**.

Temperature To view the temperature of the LEDs, follow the instructions below:
Display
1. Press **<MENU>** repeatedly until **tEMP** shows on the display.
2. Press **<ENTER>** and the temperature will be shown in degrees Celsius.

Master/Slave Mode

The Master/Slave mode allows a single SlimBANK™ TRI-18 unit (the "master") to control the actions of one or more SlimBANK™ TRI-18 units (the "slaves") without the need of a DMX controller. The master unit will be set to operate in either an auto program 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. Set the DMX address to **d001**.
2. Connect the DMX input of the first slave unit to the DMX output of the master unit.
3. Connect the DMX input of the subsequent slave units to the DMX output of the previous slave unit.
4. Finish setting and connecting all the slave units.

Master unit:

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

- Configure all the slave units before connecting the master unit 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 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 mechanical wear. 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 surface and vents.
- Clean all external optics and glass/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 glass/transparent surface.
- Gently polish the external optics and glass/transparent surfaces until they are free of haze and lint.

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

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight

Length	Width	Height	Weight
15.3 in (389 mm)	7.7 in (197 mm)	7.4 in (187 mm)	7 lb (3.2 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	105 W	109 W
Operating current	0.9 A	0.5 A
Power linking current (units)	8 A (9 units)	8 A (16 units)
Fuse	T 2 A, 250 V	T 2 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	18	350 mA x 3

Photo Optic

Parameter		
Illuminance @ 2 m	5450 lx	
Beam angle	17°	
Field angle	32°	
Strobe rate	0 to 20 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, 5, 9, 13

Ordering

Product Name	Item Code	UPC Number
SlimBANK™ TRI-18	03030667	781462210151

RoHS

CE
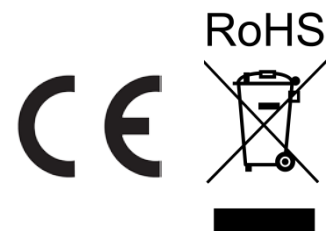
Returns

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 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.

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		United Kingdom & Ireland	
CHAUVET®		CHAUVET® Europe Ltd.	
General Information		**General Information**	
Address:	5200 NW 108th Avenue	Address:	Unit 1C
	Sunrise, FL 33351		Brookhill Road Industrial Estate
Voice:	(954) 577-4455		Pinxton, Nottingham, UK
Fax:	(954) 929-5560		NG16 6NT
Toll free:	(800) 762-1084	Voice:	+44 (0)1773 511115
		Fax:	+44 (0)1773 511110
Technical Support		**Technical Support**	
Voice:	(954) 577-4455 (Press **4**)	Email:	uktech@chauvetlighting.com
Fax:	(954) 756-8015		
Email:	tech@chauvetlighting.com		
World Wide Web		**World Wide Web**	
	www.chauvetlighting.com		www.chauvetlighting.co.uk