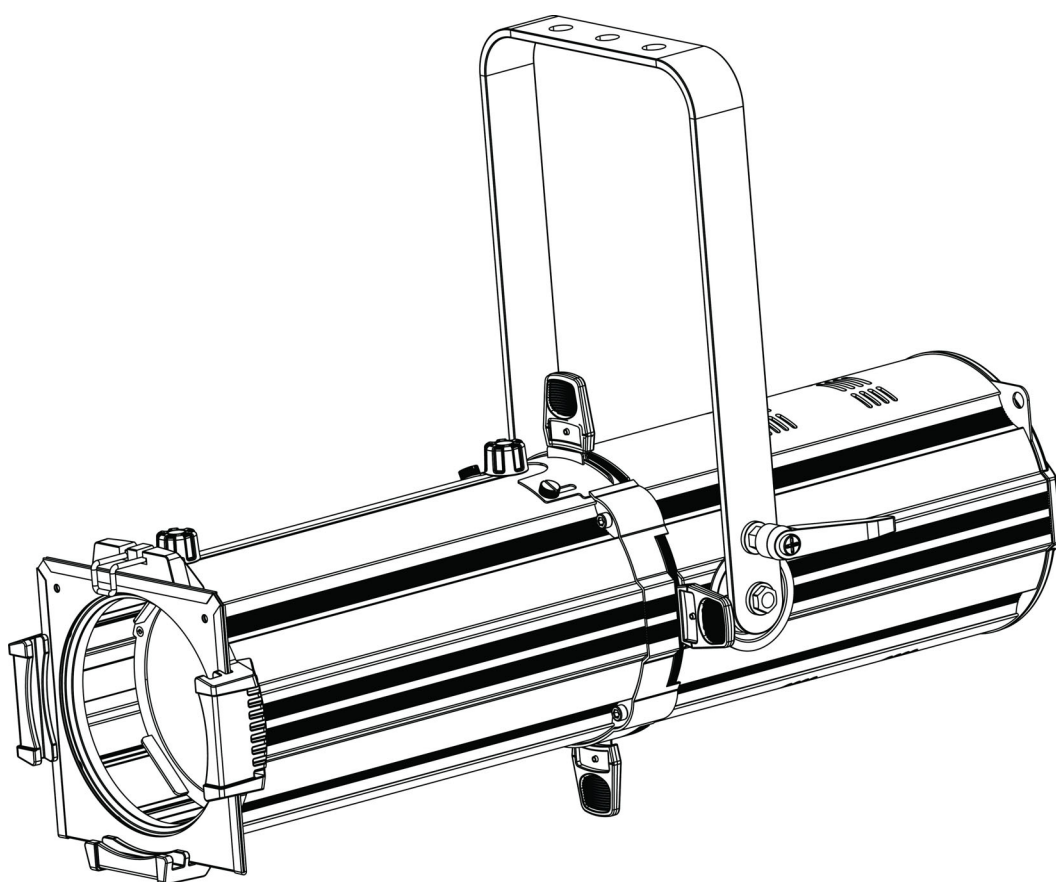


EVE E-50Z

User Manual



Edition Notes

The EVE E-50Z User Manual includes a description, safety precautions, installation, programming, operation, and maintenance instructions for the EVE E-50Z 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.

Disclaimer

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Document Revision

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

Revision	Date	Description
4	07/2026	Initial release.

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1. Before You Begin

What Is Included

- EVE E-50Z
- Seetronic Powerkon power cable
- Framing shutters
- Gel frame
- Glass gobo holder
- Steel gobo holder
- 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
	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 EVE E-50Z.



■ **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:**

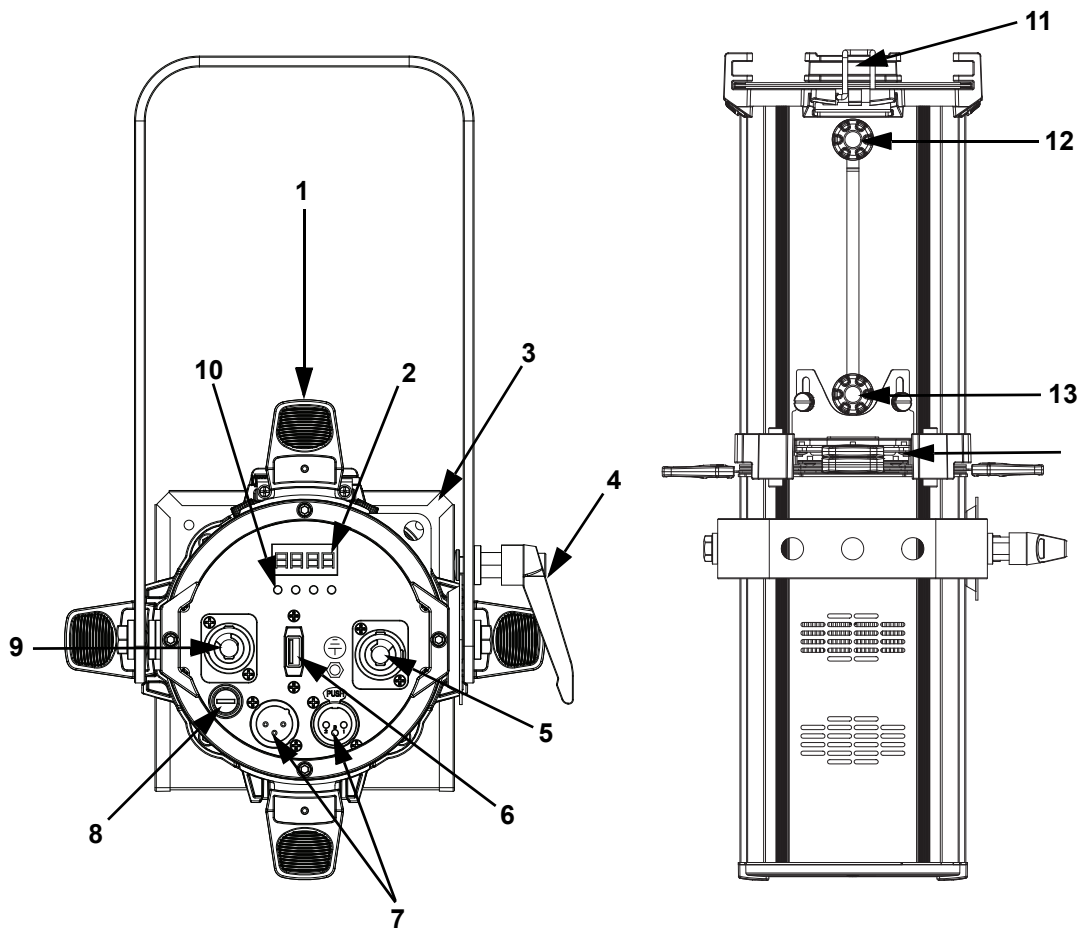
- ◆ Open this product or attempt any repairs. It contains no user-serviceable parts.
- ◆ Look at the light source when the product is on.
- ◆ Use if the power cable is crimped or damaged.
- ◆ Disconnect by pulling on the power cable.
- ◆ Allow flammable materials close to the product when it is operating.
- ◆ 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.
- ◆ Leave outdoors for extended periods of time.
- ◆ Expose to corrosive environmental conditions such as temperature, humidity, salinity, pressure, radiation, or shock.
- ◆ Set this product on a flammable surface.



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

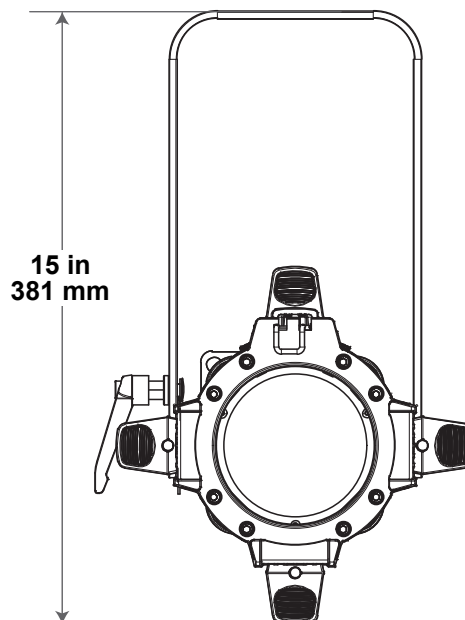
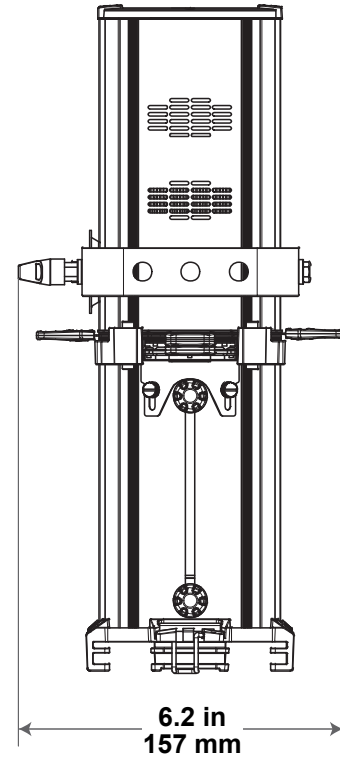
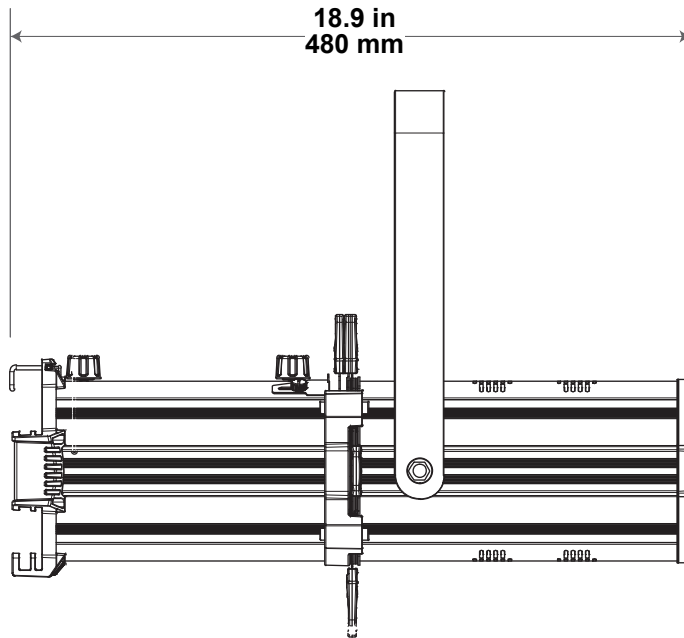


#	Name	#	Name
1	Framing shutters	8	Fuse holder
2	Display	9	Power in
3	Gel frame	10	Menu buttons
4	Bracket adjustment knob	11	Gel holder locking clip
5	Power out	12	Zoom knob
6	D-Fi USB	13	Focus knob
7	DMX in/out		



WARNING! DO NOT plug anything other than a D-Fi USB into the USB type B port. Doing so may cause damage to the product.

Product Dimensions



3. Setup

AC Power

The EVE E-50Z 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.



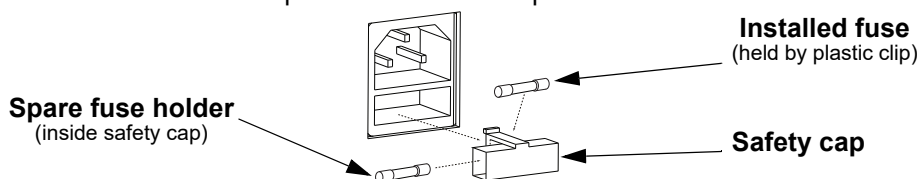
- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product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

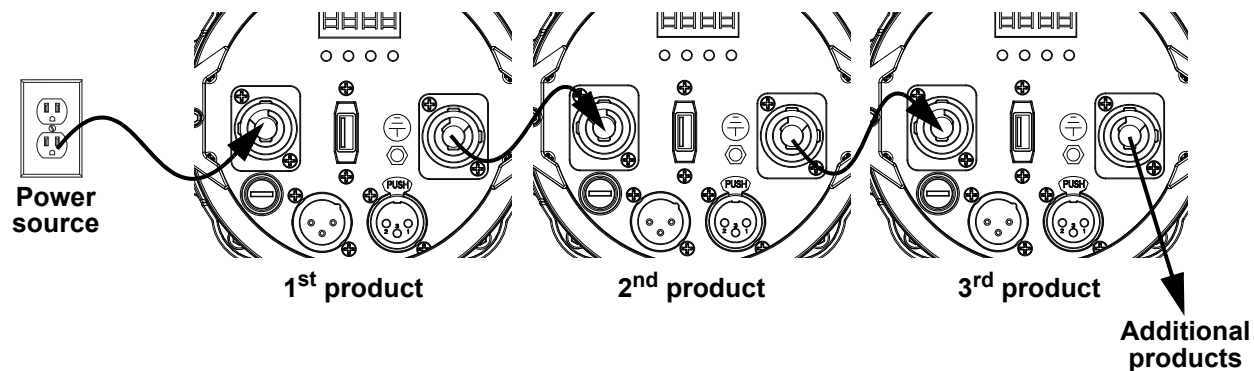


Always replace a blown fuse with one of the same type and rating.

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 16 EVE E-50Z products on 120 VAC or up to 26 products 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, 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](#).

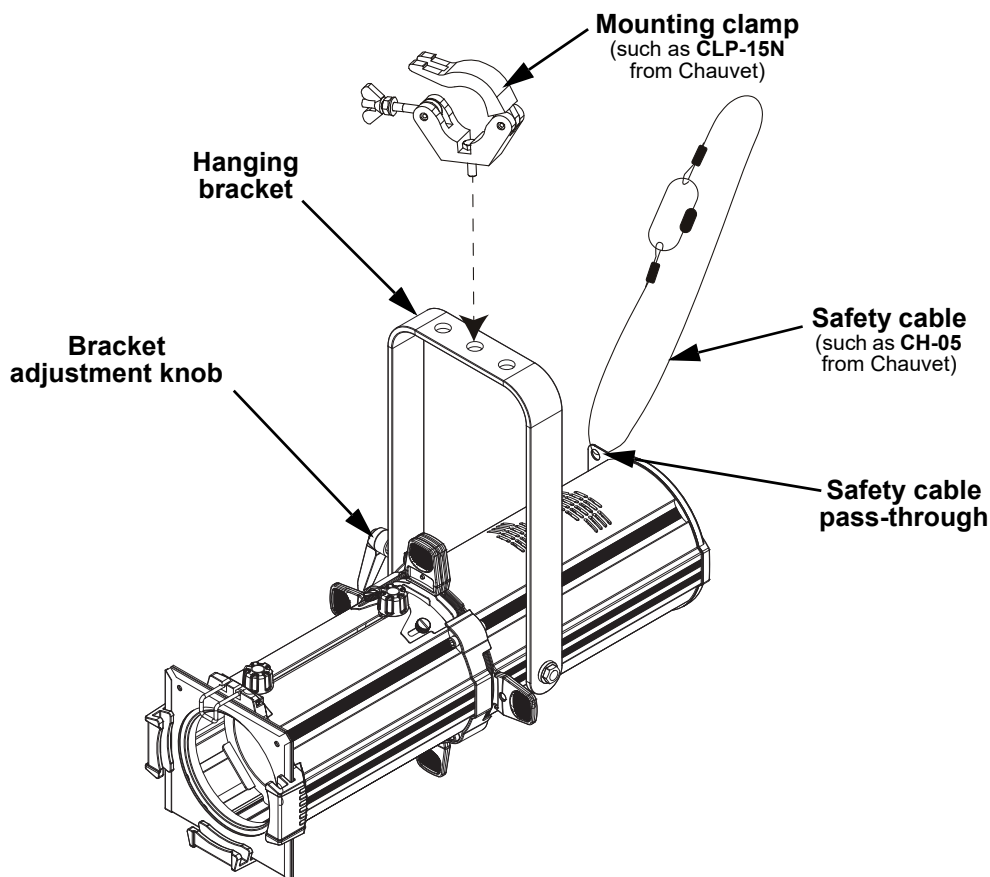
Orientation

The EVE E-50Z 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.

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

Menu Map

Refer to the EVE E-50Z product page on www.chauvetdj.com for the latest menu map and software.

MODE	PROGRAMMING LEVELS		DESCRIPTION
DMX Mode	1-CH	d--1-512	Selects DMX personality and DMX starting address
	3-CH		
Dimmer	U--	d000—255	Dimmer control, dimmer and strobe
		S000—255	
Dimmer Speed Mode	dIn	OFF	Dimmer speed settings, off, fast, medium, or slow
		dIn1	
		dIn2	
		dIn3	
Fan	FAN	AUTO	Sets fan speed, auto or full on
		ON	

DMX Configuration

The EVE E-50Z works with a DMX controller. Information about DMX is in the Chauvet DMX Primer, which is available from the Chauvet website chauvetlighting.com/downloads/DMX_Primer_rev05_WO.pdf.

PDMX 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 EVE E-50Z uses up to 3 DMX channels in a **3-CH** DMX mode, which defines the highest configurable address to **510**.

If you are not familiar with the DMX protocol, download the DMX Primer from www.chauvetdj.com.

To select the starting address, do the following:

1. Press <MENU> repeatedly until **1-CH** or **3-CH** shows on the display.
2. Press <ENTER> and **d--1-512** will show on the display.
3. Use <UP> or <DOWN> to select the starting address.
4. Press <ENTER>.

D-Fi USB Connectivity

The EVE E-50Z is able to become a D-Fi wireless receiver/transmitter with the use of the D-Fi USB from Chauvet DJ. Simply set the product's DMX Personality and DMX Address, set the DIP switch D-Fi receiving/transmitting channel, then plug it into the D-Fi USB port.



WARNING! DO NOT plug anything other than a D-Fi USB into the USB type B port. Doing so may cause damage to the product.



Once plugged in, the D-Fi USB will take over the product. Wired DMX and manual display control / menu buttons will be unavailable until the D-Fi USB is unplugged. The priority levels are:

1. D-Fi USB
2. Wired DMX
3. Manual Digital Display/Menu Buttons

D-Fi USB Compatibility

The D-Fi USB can receive a DMX signal from the D-Fi Hub and the FlareCON Air 2 as well as other D-Fi USB products.

D-Fi USB Configuration

1. Set the DMX Personality and DMX address on the EVE E-50Z.
2. Use the Chart provided to set **BOTH**:
 - the Channel, and then
 - The Receiving or Transmitting option

NOTE: DIP Switch 5 is for Transmitting OR Receiving, please choose carefully.

D-Fi USB DIP Switch Channels

Receiving →						Receiving →						Transmitting →						Transmitting →					
Ch.	1	2	3	4	T/R	Ch.	1	2	3	4	T/R	Ch.	1	2	3	4	T/R	Ch.	1	2	3	4	T/R
1						9						1						9					
2						10						2						10					
3						11						3						11					
4						12						4						12					
5						13						5						13					
6						14						6						14					
7						15						7						15					
8						16						8						16					

DMX Channel Assignments and Values

3-CH

CHANNEL	FUNCTION	VALUE	PERCENT/SETTING
1	Dimmer	000 ⇔ 255	0-100%
2	Strobe	000 ⇔ 010	No Function
		011 ⇔ 255	Strobe (slow to fast)
3	Dimmer Speed Mode	000 ⇔ 051	Dimmer speed set from Display
		052 ⇔ 101	Dimmer Speed Mode Off
		102 ⇔ 152	Dimmer Speed Mode 1 - fast
		153 ⇔ 203	Dimmer Speed Mode 2 - medium
		204 ⇔ 255	Dimmer Speed Mode 3 - slow

1-CH (cont.)

CHANNEL	FUNCTION	VALUE	PERCENT/SETTING
1	Dimmer	000 ⇔ 255	0-100%

Configuration (Standalone)

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



Never connect a product that is operating in any standalone mode to a DMX string connected to a DMX controller. Products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

Dimmer

To set the dimmer value, do the following:

1. Press **<MENU>** repeatedly until **U--** shows on the display.
2. Press **<ENTER>** and **Uxxx** will show on the display.
3. Use **<UP>** and **<DOWN>** to increase or decrease the dimmer value.
4. Press **<ENTER>**.

Strobe

To set the dimmer value, do the following:

1. Press **<MENU>** repeatedly until **S--** shows on the display.
2. Press **<ENTER>** and **Sxxx** will show on the display.
3. Use **<UP>** and **<DOWN>** to increase or decrease the strobe value.
4. Press **<ENTER>**.

Dimmer Profiles

This setting determines how fast the output of the EVE E-50Z changes when you modify the values of the dimmer fader. This setting provides three different options to simulate the dimming curve of an incandescent lighting product.

To set a dimmer profile, do the following:

1. Press **<MENU>** repeatedly until **dln** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** and **<DOWN>** to choose a dimmer profile (**dln1**, **dln2**, **dln3**. or **OFF**).
4. Press **<ENTER>**.

Fan Mode

This option toggles the fan speed from being always on and auto control based on the products temperature.

1. Press **<MENU>** repeatedly until **FAN** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** and **<DOWN>** to choose between **AUTO** and **ON**.
4. Press **<ENTER>**.

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.

6. Technical Specifications

Dimensions and Weight

LENGTH	WIDTH	HEIGHT	WEIGHT
18.9 in (480 mm)	6.2 in (157 mm)	15 in (381 mm)	9.2 lb (4.2 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	59 W	63 W
Operating Current	0.5 A	0.3 A
Power linking current (products)	8 A (16 products)	8 A (26 products)
Fuse	F 1 A, 250 V	F 1 A, 250 V

POWER I/O	U.S./WORLDWIDE	UK/EUROPE
Power input connector	Seetronic Powerkon	Seetronic Powerkon
Power output connector	Edison	Seetronic Powerkon
Power Cord plug	Edison (U.S.)	Local Plug

Light Source

TYPE	POWER	LIFESPAN
LED	50 W	50,000 hours

COLOR	QUANTITY	CURRENT
Warm White	1	1.3 A

Photometrics

PARAMETER	VALUE		
Strobe Rate	0 to 29 Hz		
Zoom Angle	20° to 39°		
Illuminance @ 2 m 20°	7,910 lux	Illuminance @ 5 m 20°	1,479 lux
Illuminance @ 2 m 39°	2,710 lux	Illuminance @ 5 m 39°	508 lux

Thermal

MAXIMUM EXTERNAL TEMPERATURE	COOLING SYSTEM
104 °F (40 °C)	Convection

DMX

I/O CONNECTOR	CHANNEL RANGE
3-pin XLR	1 or 3

Ordering

PRODUCT NAME	ITEM CODE	UPC NUMBER
EVE E-50Z (BLK)	03051234	781462215828
EVE E-50Z (WHT)	03121278	781462216269



UL 1573
CSA C22.2 No. 166
E113093



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.