

EVE F-50Z

User Manual




CHAUVET **2**

Edition Notes

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

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Document Revision

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

Revision	Date	Description
4	07/2026	Updated format and What Is Included.

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1. Before You Begin

What Is Included

- EVE F-50Z
- Seetronic Powerkon Power cable
- powerCON to bare end cable (EU only)
- Gel Frame
- Barn Doors
- 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 EVE F-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.

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

- **DO NOT:**

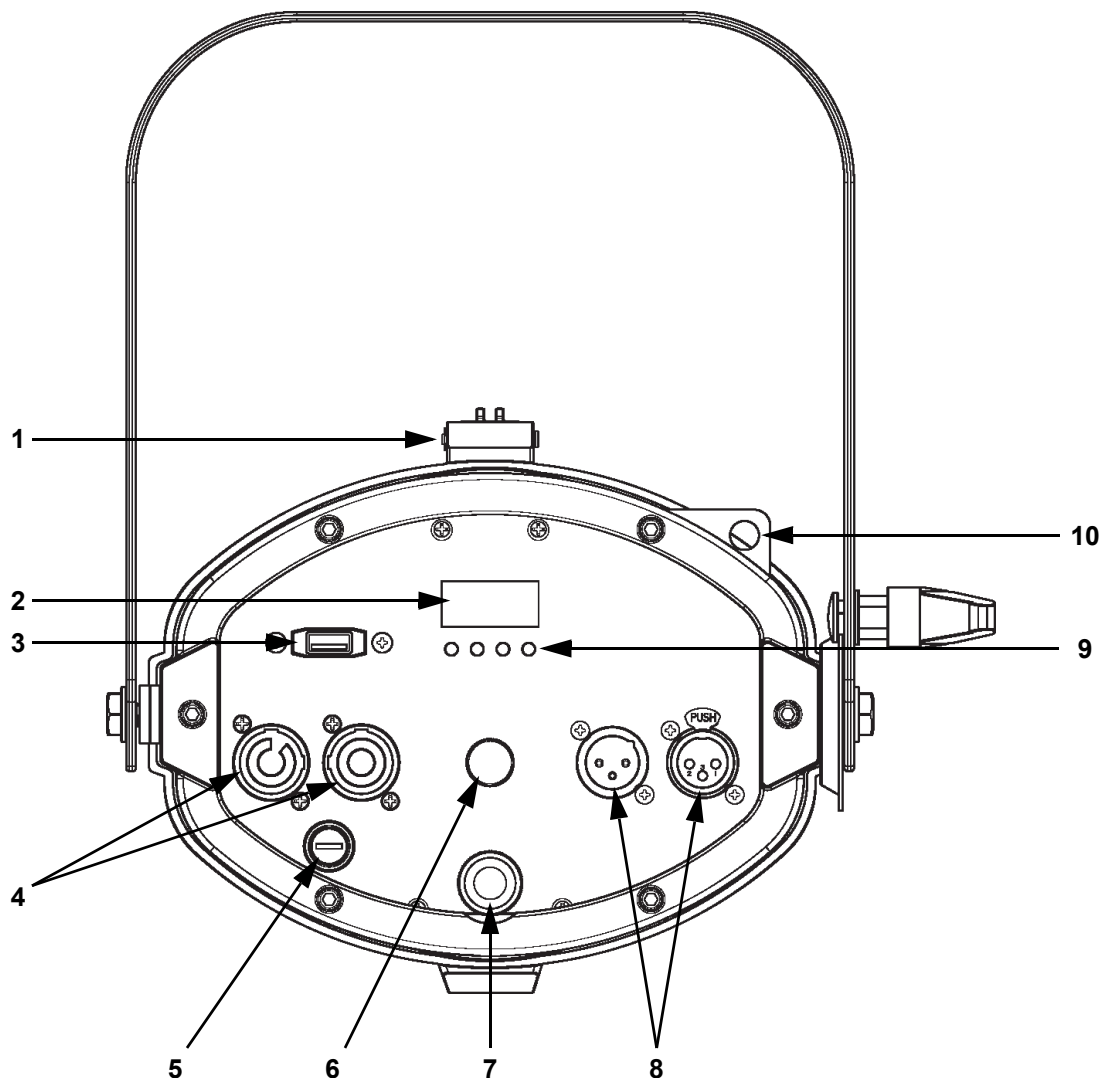
- ◆ Open this product or attempt any repairs. It contains no user-serviceable parts.
- ◆ Look at the light source when the product is on.
- ◆ Use if the power cable is crimped or damaged.
- ◆ Disconnect by pulling on the power cable.
- ◆ Allow flammable materials close to the product when it is operating.
- ◆ 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.



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

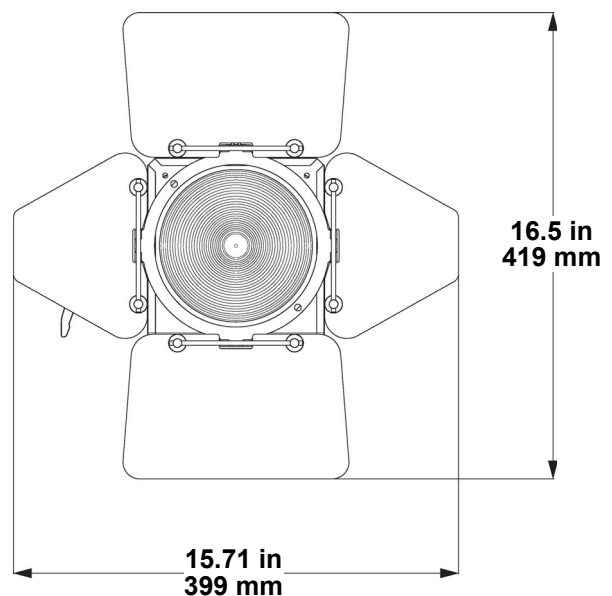
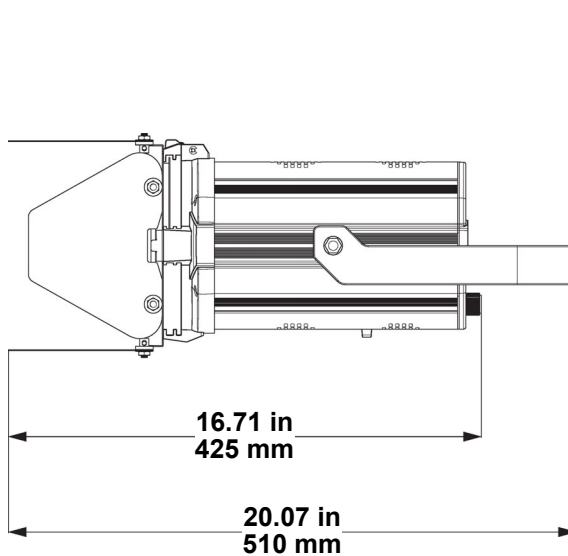
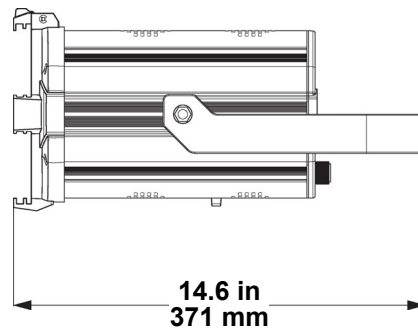
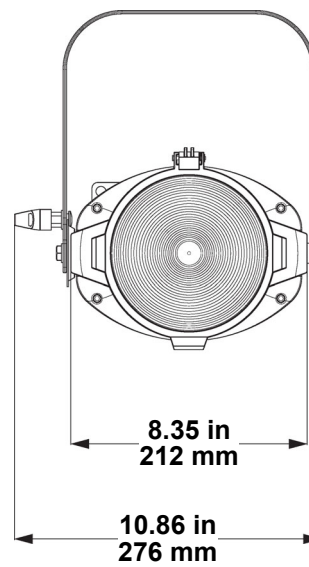
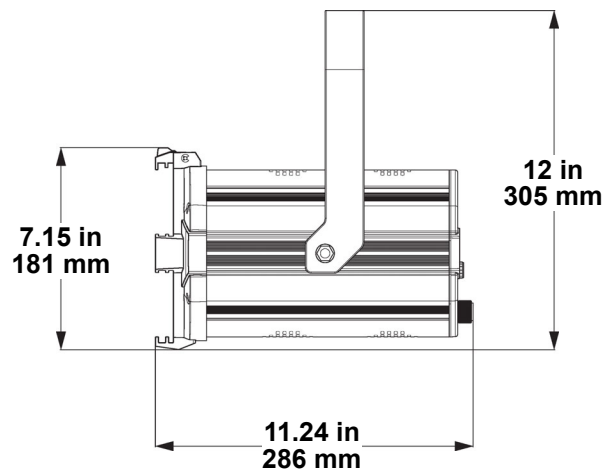


#	Name	#	Name
1	Accessory clip	6	Dimmer knob
2	Menu display	7	Zoom thumbscrew
3	USB type B port	8	DMX in/out
4	Power in/out	9	Menu buttons
5	Fuse Holder	10	Safety loop



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 F-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.

EU Version AC Plug

The EU version of this product comes with a power input cable terminated with a powerCON connector on one end and bare wire on the other end. Use the table below to wire a plug.

Connection	Wire (U.S.)	Wire (Europe)	Screw Color
AC Live	Black	Brown	Yellow/Brass
AC Neutral	White	Blue	Silver
AC Ground	Green/Yellow	Green/Yellow	Green/Silver

Fuse Replacement

1. Disconnect the product from power.
2. Using a Phillips-head screwdriver, unscrew the fuse holder and pull it straight out.
3. Remove the blown fuse from the holder and replace with a fuse of the exact same type and rating.
4. Re-insert the fuse holder and reconnect power.



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

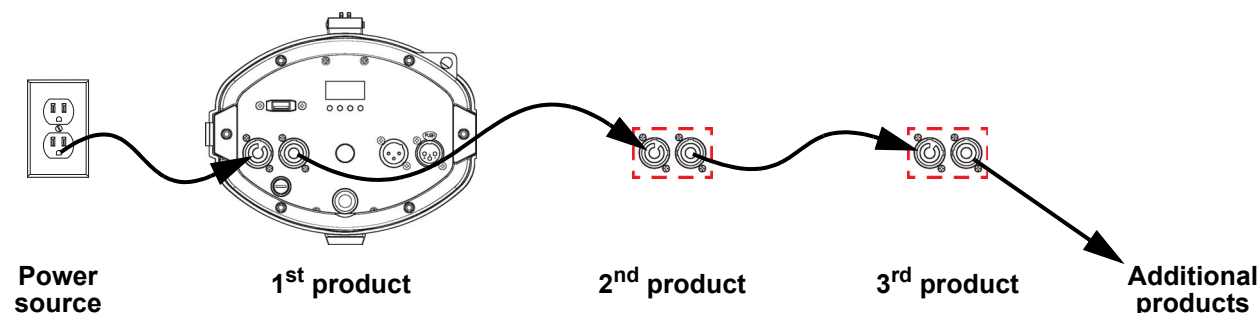


Always replace a blown fuse with one of the same type and rating.

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 F-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](#).

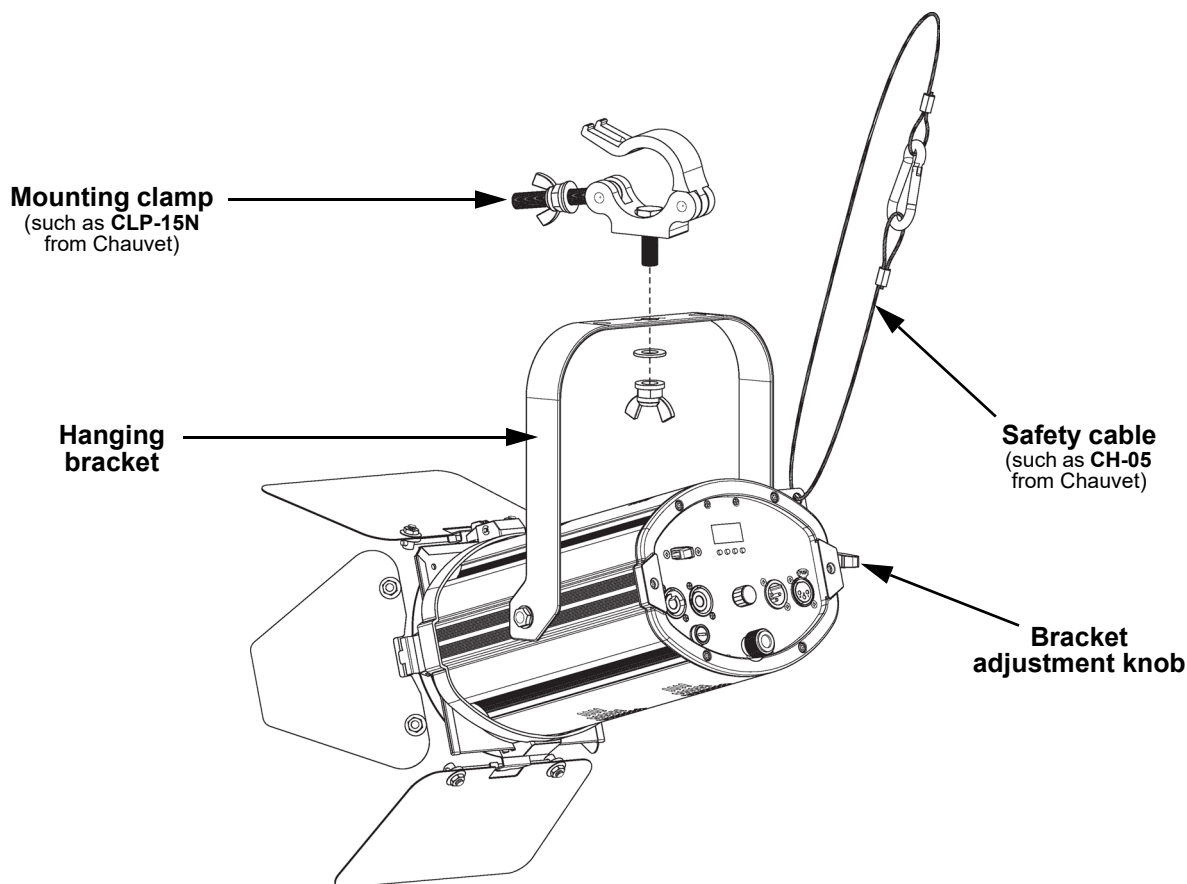
Orientation

The EVE F-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 12-mm hole, which is appropriate for this purpose.
- The bracket adjustment knob allows for directional adjustment when aiming the product to the desired angle. Only loosen or tighten the bracket knob manually. Using tools could damage the knob.
- 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



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 F-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 Speed Mode	dIM	OFF	Dimmer speed settings, off, fast, medium, or slow
		dIM1-3	
Fan Mode	FAN	AUTO	Sets fan mode, auto or full on
		ON	

DMX Configuration

The EVE F-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.

Personality and Starting Address

The EVE F-50Z uses up to 3 DMX channels in the **3-CH** DMX mode, which defines the highest recommended address to **510**.

When selecting a starting DMX address, always consider the number of DMX channels the DMX mode uses. If the starting address is set too high, access to some channels could be restricted.

For information about the DMX protocol, download the DMX Primer from www.chauvetdj.com.

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

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

D-Fi USB Connectivity

The EVE F-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 F-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

DMX Chart

1-CH	3-CH	Function	Value	Percent/Setting
1	1	Dimmer	000 ⇔ 255	0–100%
–	2	Strobe	000 ⇔ 010	No function
			011 ⇔ 255	Strobe, slow to fast
			000 ⇔ 051	Dimmer speed set from display
			052 ⇔ 101	Dimmer speed OFF
–	3	Dimmer speed mode	102 ⇔ 152	Dimmer speed 1 (fastest)
			153 ⇔ 203	Dimmer speed 2
			204 ⇔ 255	Dimmer speed 3 (slowest)

Standalone Configuration

Set the product in one of the standalone modes to operate 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 level on the EVE F-50Z, follow the instructions below:

1. Press **<MENU>** repeatedly until **U--** shows on the display.
2. Press **<ENTER>**. Repeat until **d000–255** shows on the display.
3. Use **<UP>** or **<DOWN>** to increase or decrease the dimmer value.
4. Press **<ENTER>** to save the value.
5. Press **<MENU>** to exit the mode.

Strobe

To set the strobe speed on the EVE F-50Z, do the following:

1. Press **<MENU>** repeatedly until **U--** shows on the display.
2. Press **<ENTER>**. Repeat until **S000–255** shows on the display.
3. Use **<UP>** or **<DOWN>** to increase or decrease the strobe speed.
4. Press **<ENTER>** to save the value.
5. Press **<MENU>** to exit the mode.

Dimmer Speed Mode

To set the dimmer speed mode of the EVE F-50Z, follow the instructions below:

1. Press **<MENU>** repeatedly until **dIM** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select the dimmer speed mode, from **OFF**, **dIM1** (fast), **dIM2** (medium), or **dIM3** (slow).
4. Press **<ENTER>**.

Fan Mode

To set the fan mode of the EVE F-50Z, do the following:

1. Press **<MENU>** repeatedly until **FAN** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select the fan mode, from **AUTO** (the fan speed will be set by the product temperature) or **ON** (the fan will always be on).
4. Press **<ENTER>**.

Wired Master/Slave Mode

The Master/Slave mode allows a single EVE F-50Z product (the “master”) to control the actions of one or more EVE F-50Z products (the “slaves”) without the need of a DMX controller. The master product will be set to operate in standalone mode, 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 **1-CH** or **3-CH** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to set the starting address to **d--1**.
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.
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.**

D-Fi USB Master/Slave Mode

The D-Fi USB allows a single EVE F-50Z product (the “master”) to control the actions of one or more EVE F-50Z products (the “slaves”) without the need of a DMX controller or DMX cables. The master (transmitter) product will be set to operate in standalone mode, while the slave (receiver) 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 **1-CH** or **3-CH** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to set the starting address to **d--1**.
4. Press **<ENTER>**.
5. Set the D-Fi USB to receive on a specific channel, 1–16.
6. Plug in the D-Fi USB.
7. Finish setting and connecting all the slave products.

Master product:

1. Set the master product to operate in standalone mode.
2. Set the D-Fi USB to transmit on the D-Fi channel the slaves are receiving on.
3. Plug in the D-Fi USB.



- **All products must be set to the same DMX personality, DMX address, and D-Fi channel.**
- **Configure all the slave products before configuring the master to transmit.**
- **Never connect a DMX controller to a D-Fi channel configured for Master/Slave operation because the controller may interfere with the signals from 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
11.24 in (286 mm)	8.35 in (212 mm)	12 in (305 mm)	8.41 lb (3.9 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	60 W	58 W
Operating Current	0.5 A	0.3 A
Power linking current (products)	0.5 A (16 products)	0.5 (16 products)
Fuse	T1 A, 250 V	T1 A, 250 V
Power I/O	U.S./Worldwide	UK/Europe
Power input connector	powerCON	powerCON
Power output connector	powerCON	powerCON
Power cable plug	Edison (U.S.)	Bare end

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Warm white	1	50 W	1.3 A	50,000 hours

Photometrics

Strobe Rate	Zoom Angle	Lumens	Color Temperature	CRI
0 to 28 Hz	7° to 50°	4,087	3500 K	92
Zoom	Beam Angle	Field Angle	Illuminance @ 2 m	Illuminance @ 5 m
Narrow	17°	33°	4,780 lux	853 lux
Wide	50°	69°	998 lux	156 lux

Thermal

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

DMX

I/O Connector	Channel Range
3-pin XLR	1 or 3

Ordering

Product Name	Item Code	UPC Number
EVE F-50Z	03031279	781462216276



Contact Us

General Information	Technical Support
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Warranty & Returns

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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.