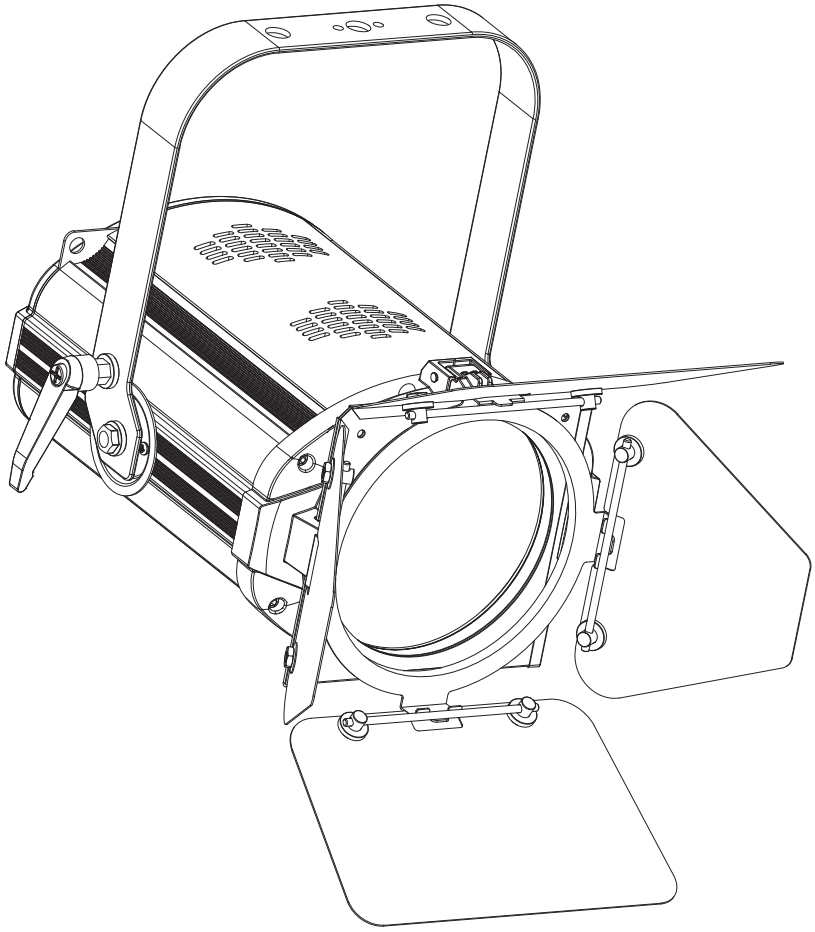
EVE F-50Z

User Manual



CHAUVET DJ

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1. BEFORE YOU BEGIN

What Is Included

- EVE F-50Z
- Seetronic Powerkon Power cord
- Gel Frame
- 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
1–512	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.

Disclaimer

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Product at a Glance

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

Safety Notes

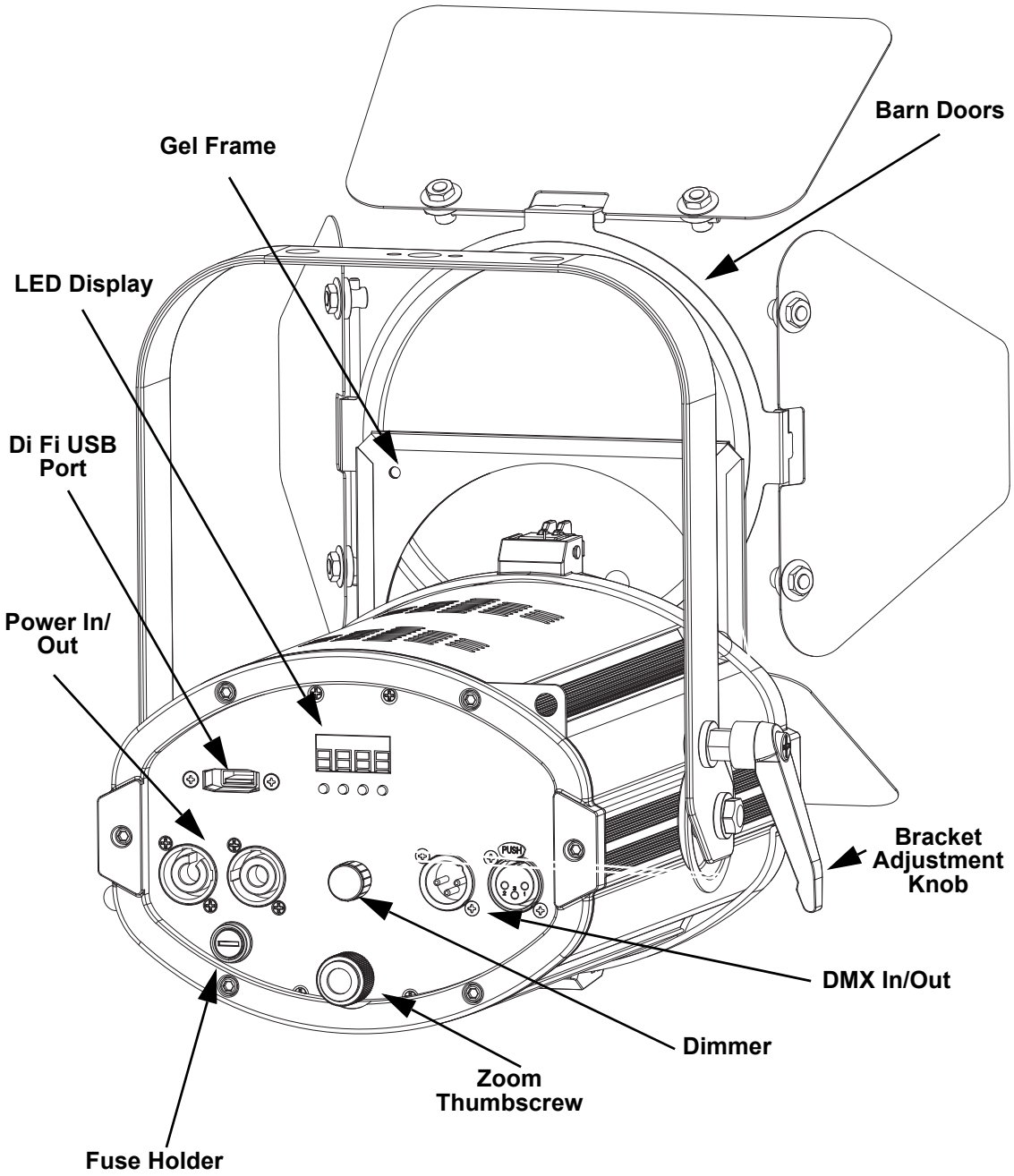
- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect the product from the power source before cleaning or replacing the fuse.
- Avoid direct eye exposure to the light source while the product is on.
- Make sure the power cord is not crimped or damaged.
- 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.

- 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.

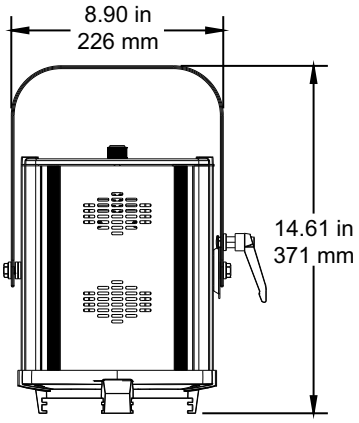
Keep this User Manual for future use. If you sell the product to someone else, be sure that they also receive this document.

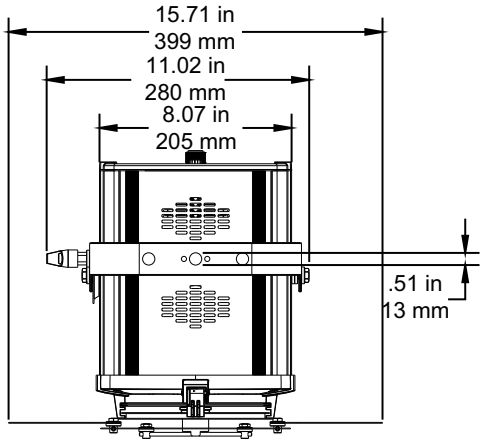
2. INTRODUCTION

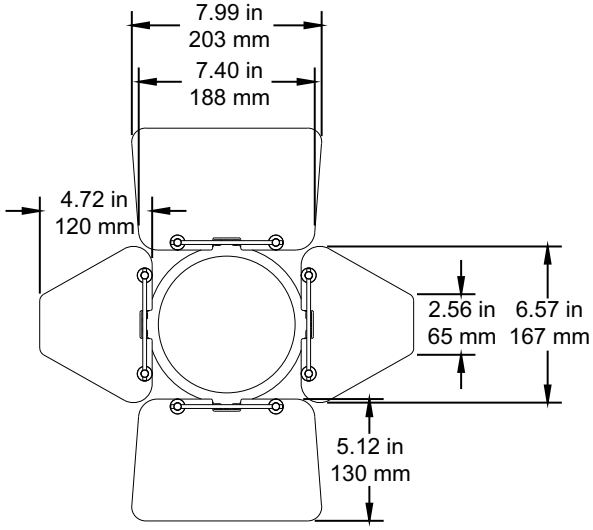
Product Overview

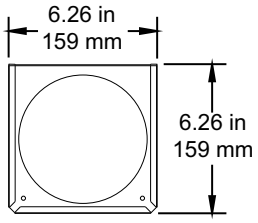


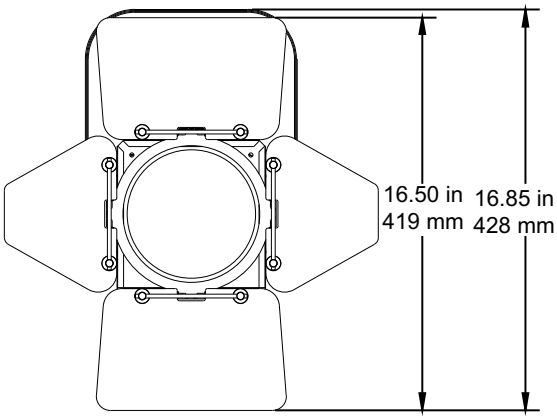
Product Dimensions

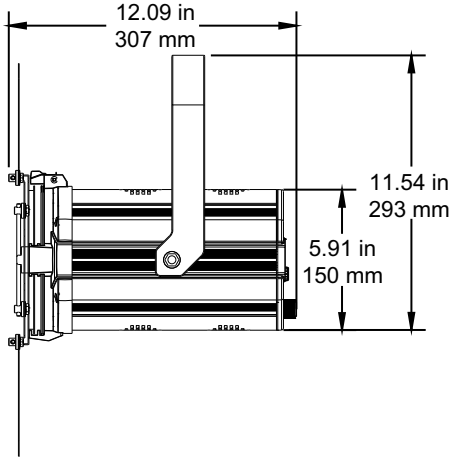












3. SETUP

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 (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

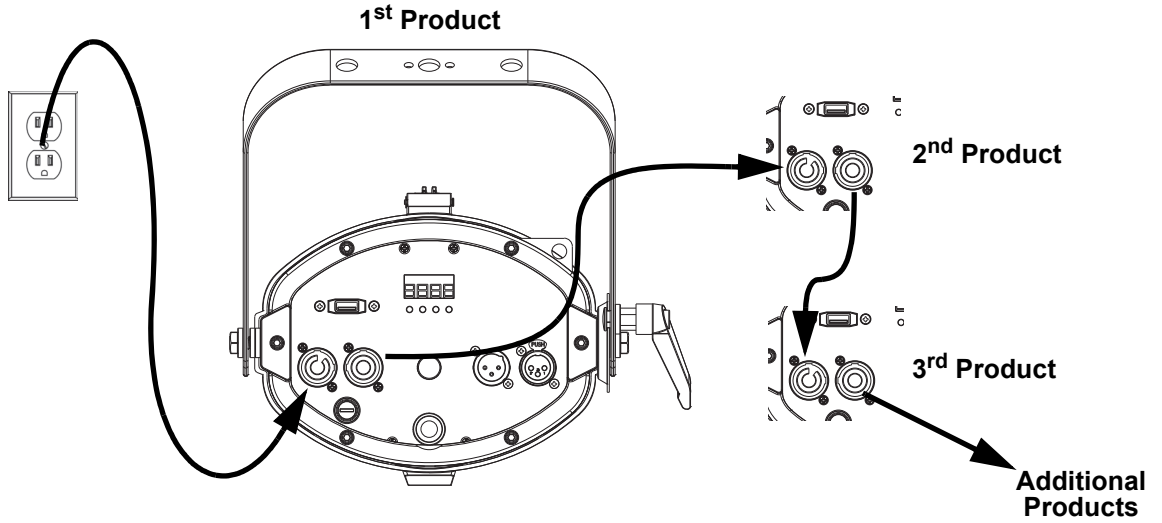
1. Disconnect the product from power.
2. Using a flat-head screwdriver, loosen the fuse holder and pull straight out.
3. Remove the blown fuse from the holder.
4. Replace with a fuse of the exact same type and rating.
5. Insert the fuse holder back in place and reconnect power.

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

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 16 EVE F-50Z products on 120 VAC or up to 26 EVE F-50Z 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.

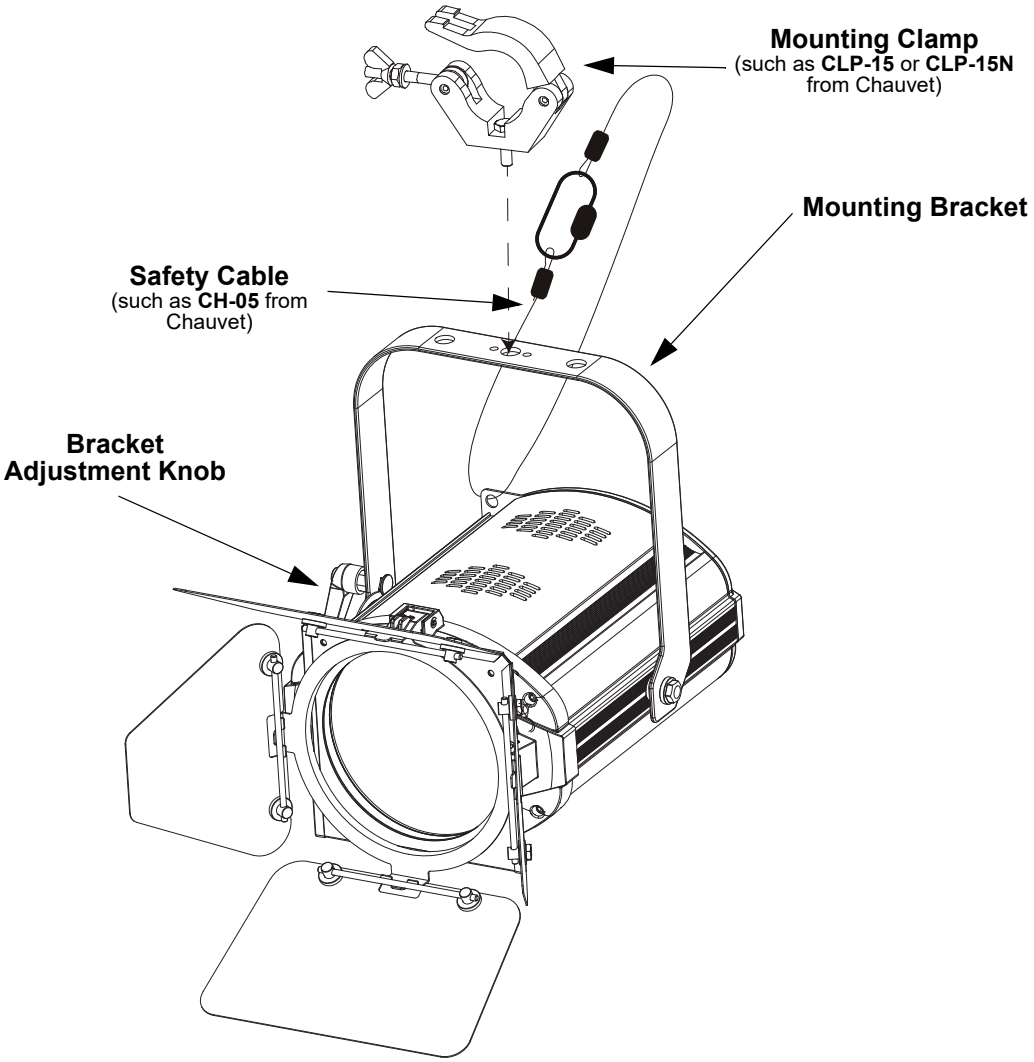
Orientation

The 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 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



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
<UP>	Press to scroll up the list of options or to find a higher value
<DOWN>	Press to scroll down the list of options or to find a lower value
<ENTER>	Press to activate a menu option or a selected value

Menu Map

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	
		dIM2	
		dIM3	
Fan	**FAN**	**AUTO**	Sets fan speed, auto or full on
		ON	

Configuration (DMX)

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 http://www.chauvetlighting.com/downloads/DMX_Primer_rev05_WO.pdf.

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 F-50Z uses up to 3 DMX channels, which defines the highest configurable address as **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>**.
3. Use **<UP>** or **<DOWN>** to select the starting address, from **d 1–512**.
4. Press **<ENTER>**.

D-Fi USB Connectivity

The PN 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 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 you unplug the D-Fi USB. The priority levels are:

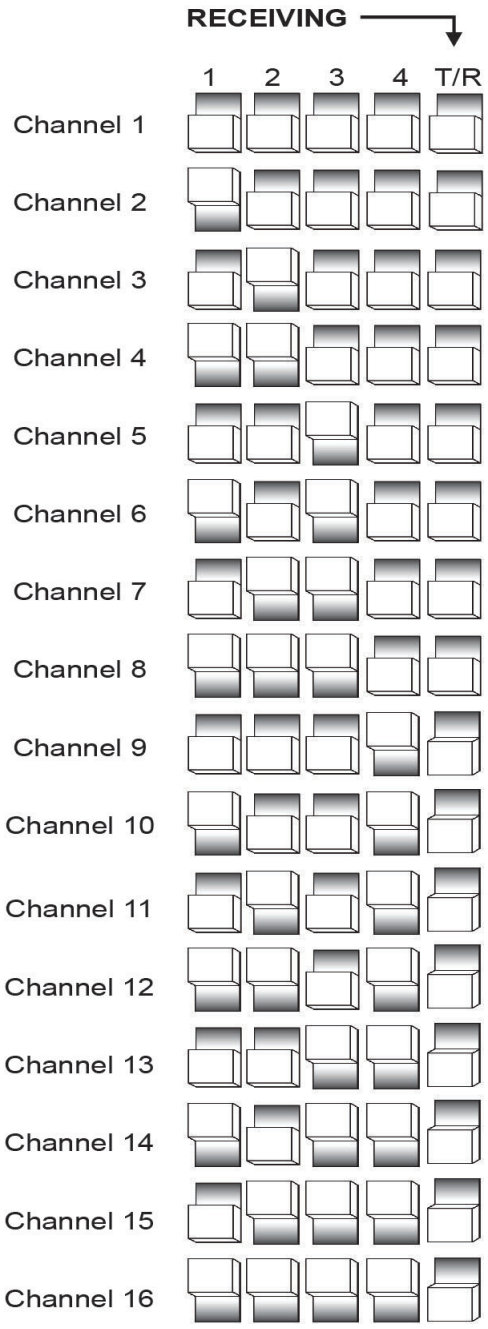
1. D-Fi USB
2. Wired DMX
3. Manual Digital Display/Menu Buttons

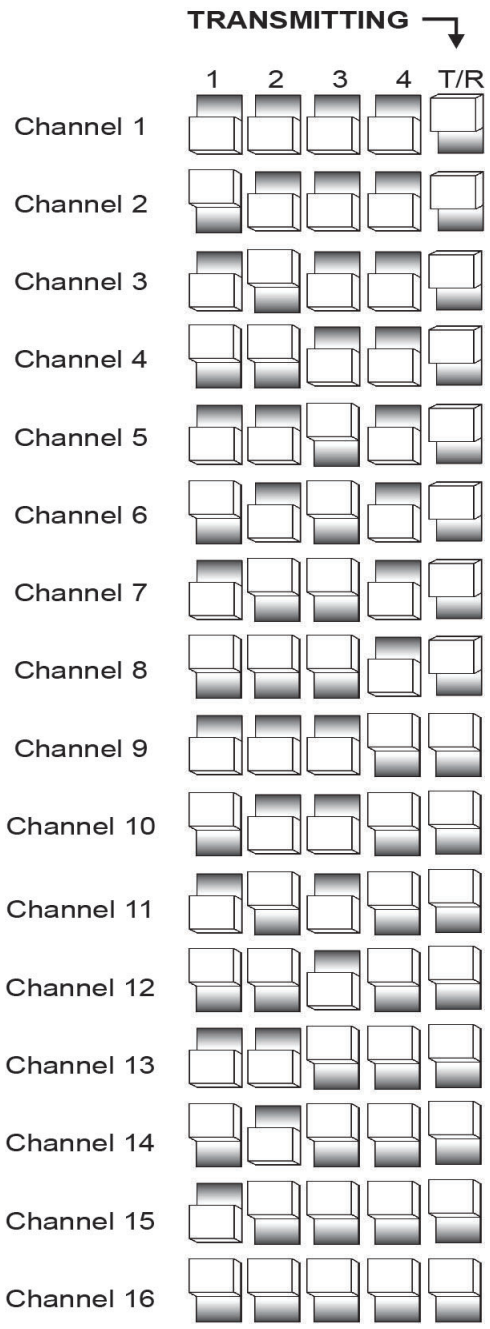
Configuration (D-Fi USB)

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





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

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 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>**.

Master/Slave Mode (Wired)

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 Stand-Alone, 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>** to accept.
3. Set the DMX address to **d 1**.
4. Connect the DMX input of the first slave product to the DMX output of the master product.
5. Connect the DMX input of the subsequent slave products to the DMX output of the previous slave product.
6. Finish setting and connecting all the slave products.

Master product:

1. Set the master product to operate in Stand-Alone 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.**

Master/Slave Mode (D-Fi USB)

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 Stand-Alone 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>** to accept.
3. Set the DMX address to **d 1**.
4. Set the D-Fi USB to receive on a specific channel, 1–16.
5. Plug in the D-Fi USB.
6. Finish setting and connecting all the slave products.

Master product:

1. Set the master product to operate in Stand-Alone 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 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
11.1 in (281 mm)	13 in (212 mm)	13 in (328 mm)	8.41 lb (3.9 kg)

Note: Dimensions in inches rounded to the nearest hundredth.

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)	16 products	26 products
Fuse	T 1 A, 250 V	T 1 A, 250 V

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

Light Source

TYPE	COLOR	QUANTITY	POWER	CURRENT	LIFESPAN
LED	Warm white	1	50 W	1.3 A	50,000 hours

Photometrics

PARAMETER	VALUE		
Strobe Rate	0 to 28 Hz		
Beam Angle Narrow	17°		
Beam Angle Wide	50°		
Field Angle Narrow	33°		
Field Angle Wide	69°		
Illuminance @ 2 m Narrow	4,780 lux	Illuminance @ 5 m Narrow	853 lux
Illuminance @ 2 m Wide	998 lux	Illuminance @ 5 m Wide	156 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 F-50Z	03031279	781462216276

UL 1573
CSA C22.2 No. 166
E113093

RETURNS

To get support or return a product:

- If you are located in the US, 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.chauvetdj.com for distributors outside the U.S., UK, Ireland, Mexico, or Benelux.

If you are located outside the US, 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.chauvetdj.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

General Information	Technical Support
World Headquarters	
Address: 5200 NW 108th Ave. Sunrise, FL 33351 Voice: (954) 577-4455 Fax: (954) 929-5560 Toll Free: (800) 762-1084	Voice: (844) 393-7575 Fax: (954) 756-8015 Email: chauvetcs@chauvetlighting.com Website: www.chauvetdj.com
UK	
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Visit the applicable website above to verify our contact information and instructions to request support. Outside the US, UK, Ireland, Mexico or Benelux, contact the dealer of record.