

4BAR Flex Q ILS

User Manual



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1. Before You Begin

What Is Included

- 4BAR Flex Q ILS
- Power cable
- Carrying bag
- Wireless footswitch
- IRC-6 Remote
- 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.

Disclaimer

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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 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.

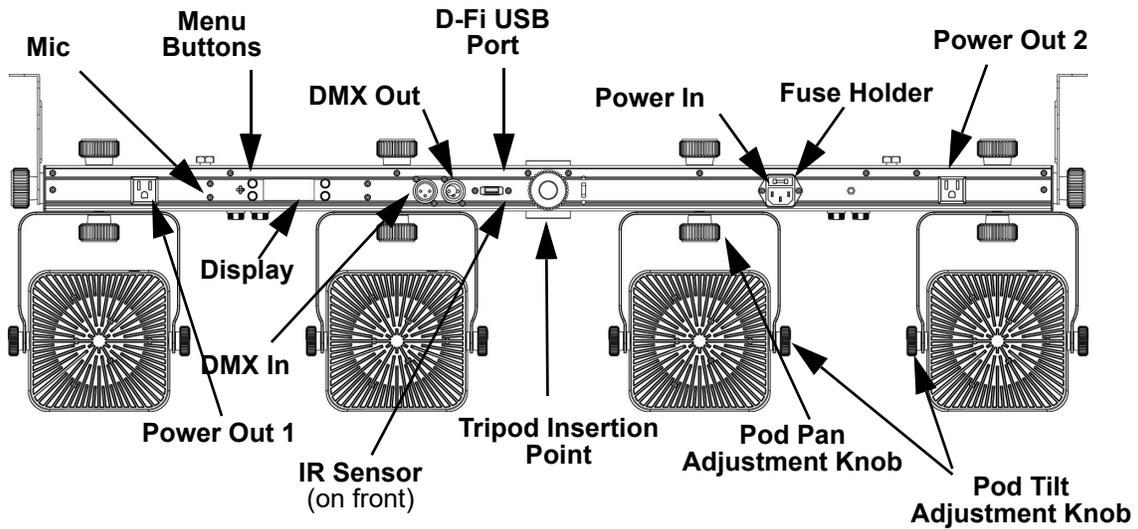
- The product is not intended for permanent installation.
- The voltage of the outlet to which the user is connecting this product must be within the range stated on the decal or rear panel of the product.
- The product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose the 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 or rheostat.
- 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 is 104 °F (40 °C). Do not operate this product at higher temperatures.
- In the event of a serious operating problem, stop using the product immediately.
- Never attempt 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.



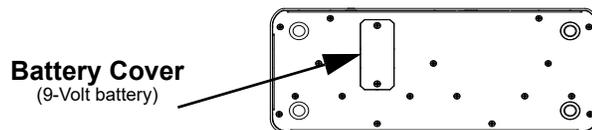
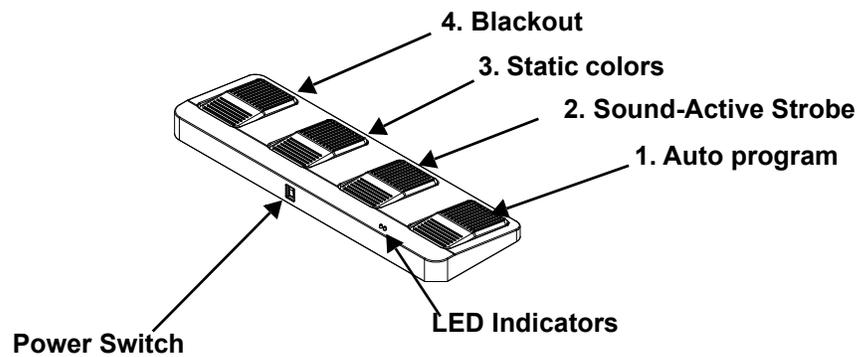
Keep this User Manual for future use. If the product is sold to someone else, be sure that they also receive this document.

2. Introduction

Product Overview



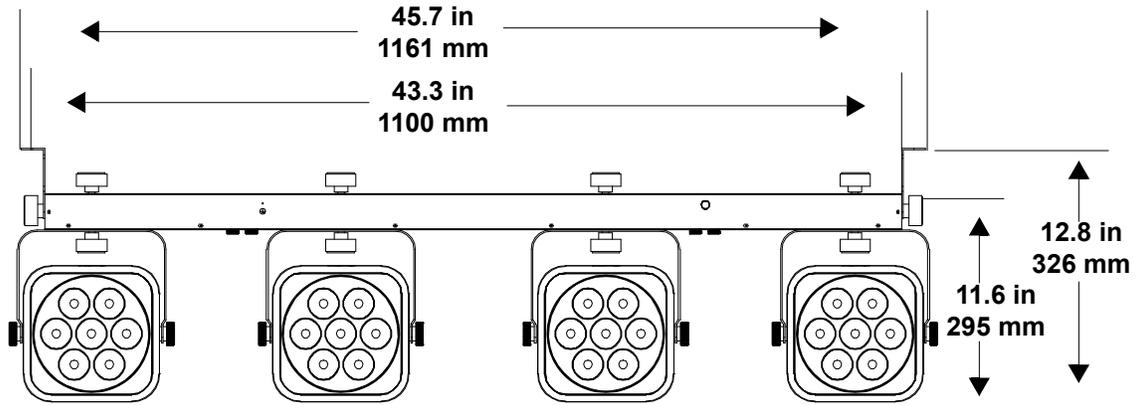
Footswitch



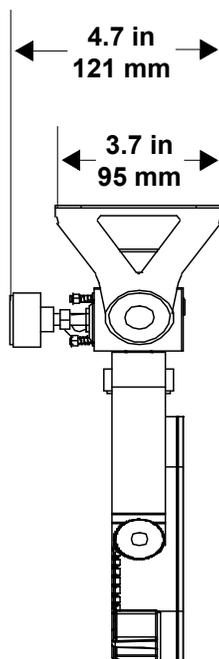
WARNING! DO NOT plug anything other than a D-Fi USB into the USB port. Doing so may cause damage to the product.

Product Dimensions

Front View



Side View



3. Setup

AC Power

The 4BAR Flex Q ILS 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.



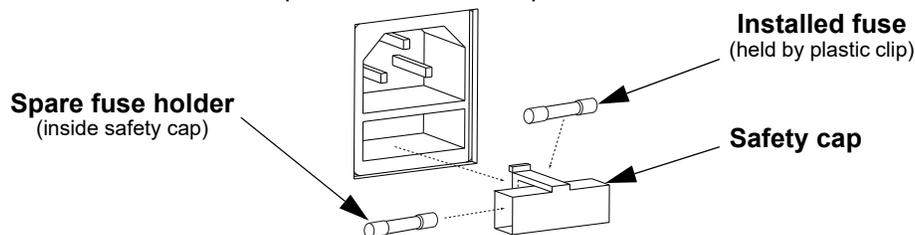
- **Always connect the product to a protected circuit (a circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.**
- **To eliminate unnecessary wear and improve its lifespan, during periods of non-use completely disconnect the product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

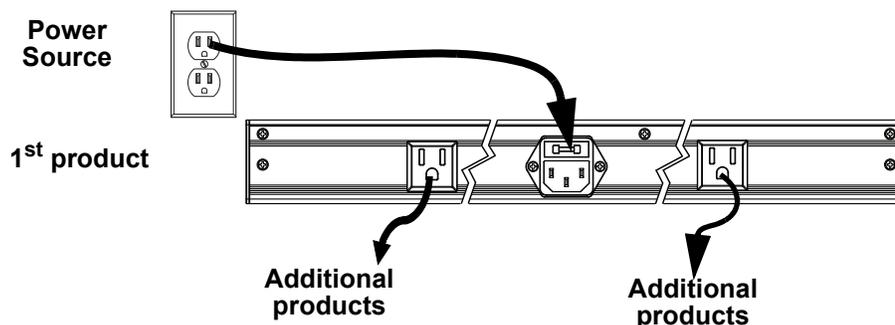


Disconnect the product from the power outlet before replacing the fuse.

Power Linking

The 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 power link up to 6 4BAR Flex Q ILS products on 120 VAC or up to 13 4BAR Flex Q ILS 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, user must consult with the local Chauvet distributor as power linking connectors and requirements may differ in each country or region.

Mounting

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

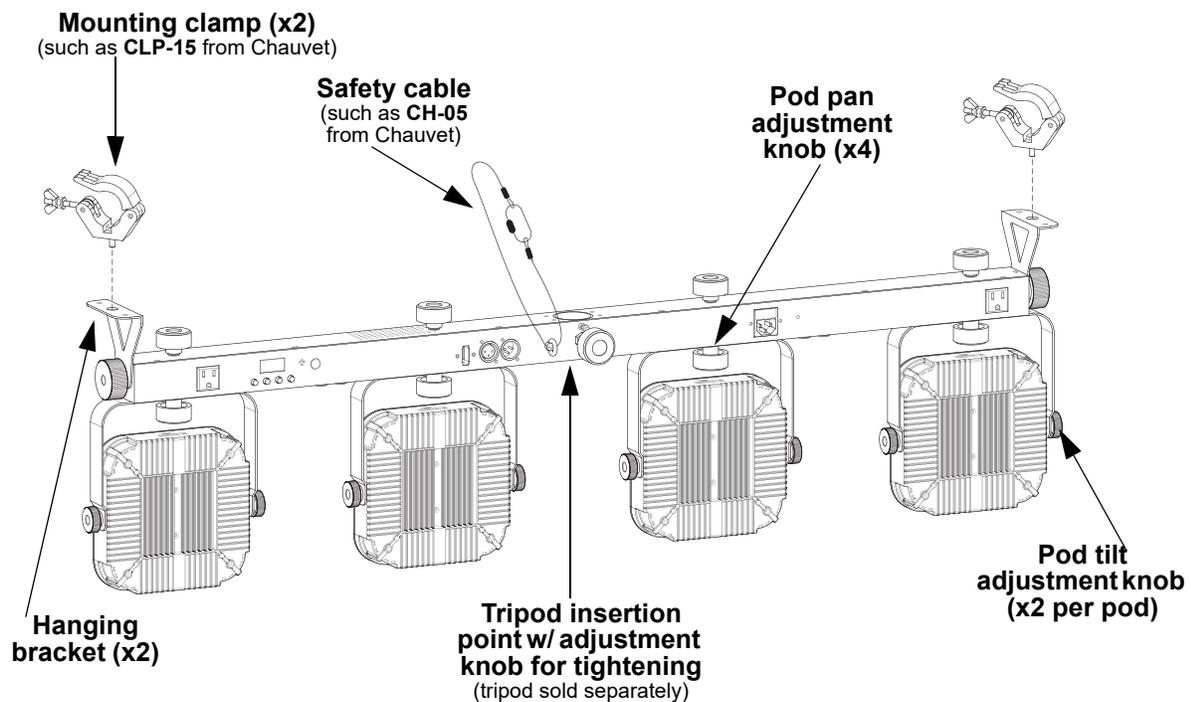
Orientation

The 4BAR Flex Q ILS 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 adequate ventilation is provided around the product.
- Make sure that the structure or surface onto which the product is being mounted 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, whether an elevated platform or a truss.
- When rigging the product onto a truss, use a mounting clamp of appropriate weight capacity.

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

Refer to the 4BAR Flex Q ILS product page on www.chauvetdj.com for the latest menu map.

Mode	Programming Levels		Description	
DMX Mode	4Ch	d 1–509	4-channel DMX mode	
	6Ch		6-channel DMX mode	
	19Ch		19-channel DMX mode	
ILS Mode	iLS	iLS1–4	Sets ILS mode	
Static Colors	C--	C 1–15	Static colors	
		C 16	3000K color temperature	
		C 17	4500K color temperature	
		C 18	5600K color temperature	
Programs	P--	P 1–8	Automatic programs	
Auto Speed	S--	S. 1–100	Program speed for P 1–8	
Dimmer	d--	L. 1–255	Dimmer	
Sound Mode	Snd	Snd1–8	Sound-active programs	
Sensitivity	SEnS	u 0–100	Sets sound sensitivity	
Custom Color Mixing	u--	r. 0–255	Custom static colors Combine red, green, blue, and amber	
		G. 0–255		
		b. 0–255		
		A. 0–255		
		S. 0–100	Strobe rate	
Control Mode	SEt	ir	on	Turns infrared on or off for footswitch or IRC-6 control
			oFF	
		out	SLAV	Enable Master/Slave with other 4BAR Flex Q ILS products
			dMX	Enable Master/Slave with legacy 4BAR products

DMX Linking

The 4BAR Flex Q ILS 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.

DMX Configuration

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 the starting address is set too high, access to some of the product's channels could be restricted.

The 4BAR Flex Q ILS uses up to 19 DMX channels in a 19-Ch DMX mode, which defines the highest configurable address to **494**.

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

To select the starting address, do the following:

1. Press **<MENU>** repeatedly until **4Ch**, **6Ch**, or **19Ch** shows on the display.
2. Press **<ENTER>** and **d 1-509** will show on the display.
3. Use **<UP>** or **<DOWN>** to select the starting address.
4. Press **<ENTER>**.

D-Fi USB Connectivity

The 4BAR Flex Q ILS 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, plug it into the D-Fi USB port then set the product's DMX Personality and DMX Address.



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 the user unplugs the D-Fi USB. The priority levels are:



1. **D-Fi USB**
2. **Wired DMX**
3. **IRC-6 Remote Control**
4. **Manual Digital Display/Menu Buttons**

D-Fi USB Compatibility

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

D-Fi USB Configuration

1. Set the DMX Personality and DMX address on the 4BAR Flex Q ILS.
2. Use the Chart provided to set **BOTH**:
 - the Channel, and then
 - The **Receiving** or **Transmitting** option.

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

4Ch	6Ch	19Ch	Function	Value	Percent/Setting
-	-	1	Automatic Programs	000 ⇔ 009	No function
				010 ⇔ 029	Auto program 1
				030 ⇔ 049	Auto program 2
				050 ⇔ 069	Auto program 3
				070 ⇔ 089	Auto program 4
				090 ⇔ 109	Auto program 5
				110 ⇔ 129	Auto program 6
				130 ⇔ 149	Auto program 7
				150 ⇔ 169	Auto program 8
				170 ⇔ 189	Auto program 9
				190 ⇔ 209	Auto program 10
				210 ⇔ 229	Auto program 11
				230 ⇔ 249	Auto program 12
			250 ⇔ 255	Sound-active program	
-	-	2	Dimmer	000 ⇔ 255	0–100%
-	-	3	Strobe (when Ch. 1 is 000 ⇔ 009)	000 ⇔ 009	No function
				010 ⇔ 255	Strobe, slow to fast
-	-		Program speed (when Ch. 1 is 010 ⇔ 249)	000 ⇔ 255	Program speed, slow to fast
				Sound sensitivity (when Ch. 1 is 250 ⇔ 255)	000 ⇔ 010
				011 ⇔ 255	Sound sensitivity, low to high
1	1	4	Red 1	000 ⇔ 255	0–100%
2	2	5	Green 1	000 ⇔ 255	0–100%
3	3	6	Blue 1	000 ⇔ 255	0–100%
4	4	7	Amber 1	000 ⇔ 255	0–100%
-	-	8	Red 2	000 ⇔ 255	0–100%
-	-	9	Green 2	000 ⇔ 255	0–100%
-	-	10	Blue 2	000 ⇔ 255	0–100%
-	-	11	Amber 2	000 ⇔ 255	0–100%
-	-	12	Red 3	000 ⇔ 255	0–100%
-	-	13	Green 3	000 ⇔ 255	0–100%
-	-	14	Blue 3	000 ⇔ 255	0–100%
-	-	15	Amber 3	000 ⇔ 255	0–100%
-	-	16	Red 4	000 ⇔ 255	0–100%
-	-	17	Green 4	000 ⇔ 255	0–100%
-	-	18	Blue 4	000 ⇔ 255	0–100%
-	-	19	Amber 4	000 ⇔ 255	0–100%
-	5	-	Dimmer	000 ⇔ 255	0–100%
-	6	-	Strobe	000 ⇔ 015	No function
				016 ⇔ 255	Strobe, slow to fast

Standalone Configuration

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 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.

Static Colors

To run the 4BAR Flex Q ILS in Preset Color mode, follow the instructions below:

1. Press **<MENU>** repeatedly until **C--** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select **C 1–18**.
4. Press **<ENTER>**.

Automatic Programs

To run the 4BAR Flex Q ILS in Automatic mode, follow the instructions below:

1. Press **<MENU>** repeatedly until **P--** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select **P 1–8**.
4. Press **<ENTER>**.

Automatic Speed

To change the auto program speed, do the following:

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

Dimmer

To adjust the total output, do the following:

1. Press **<MENU>** repeatedly until **d--** shows on the display.
2. Press **<ENTER>** and **L. _ _ _** will show on the display.
3. Use **<UP>** or **<DOWN>** to select from **L. 1–255**.
4. Press **<ENTER>**.

Sound-Active Mode

To run the 4BAR Flex Q ILS in sound-active mode, do the following:

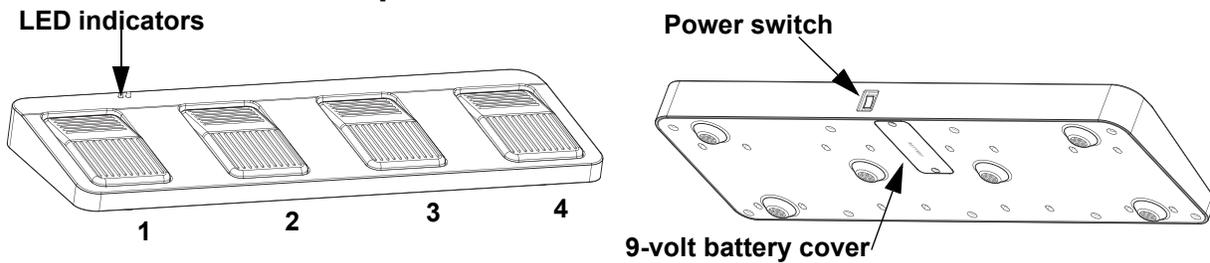
1. Press **<MENU>** repeatedly until **Snd** shows on the display.
2. Press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select **Snd1–8**.
4. Press **<ENTER>**.

Custom Color Mixing

To custom mix a color, do the following:

1. Press **<MENU>** repeatedly until **u--** shows on the display.
2. Press **<ENTER>** and one of the following will show on the display:
 - **r. _ _ _** (red)
 - **G. _ _ _** (green)
 - **b. _ _ _** (blue)
 - **S. _ _ _** (strobe rate)
3. Press **<ENTER>** to cycle through the color settings.
4. When the desired color shows on the display, use **<UP>** or **<DOWN>** to increase or decrease the color value.
5. Repeat steps 3 and 4 until the product outputs as desired.

Wireless Footswitch Operation



The included wireless footswitch provides quick access to preset colors, color-change programs, and sound-activation through the 4BAR Flex Q ILS microphone.

To use the footswitch:

1. Connect the 4BAR Flex Q ILS to power. Turn the wireless footswitch on.
2. Press **<MENU>** repeatedly until **SET** shows on the display, and press **<ENTER>**.
3. Use **<UP>** or **<DOWN>** to select **ir**, and press **<ENTER>**.
4. Use **<UP>** or **<DOWN>** to select **on**, and press **<ENTER>**.
5. Press **<MENU>** repeatedly until **P--** shows on the display, and press **<ENTER>**.
6. Press pedal #3 to activate static color controls. When working, all the lights will begin in a static color and **FOOT** will appear on the Menu display.
7. Use the chart below to activate the desired function.

Pedal	Action	Function
1 (Auto Programs)	Tap pedal to activate, then tap to navigate to desired function	Auto programs 1–8
2 (Sound Mode)	Press and hold	Sound-active programs
3 (Static Colors)	Tap	Static colors C1–18
		Auto snap program
		Auto fade program
4 (Blackout)	Press and hold	Auto fade program
	Tap	Blackout
	Press and hold	Fade to blackout



The 4BAR Flex Q ILS footswitch will work properly in any mode, with a maximum unobstructed distance of 100 ft (30.5 m). The user must turn on the ir setting from the 4BAR Flex Q ILS and navigate to Auto mode before using the footswitch.

Footswitch Battery

The wireless footswitch uses a 9-volt battery located under the battery cover on the bottom of the product, which can be replaced when necessary.

Battery Replacement

To replace the battery in the wireless footswitch:

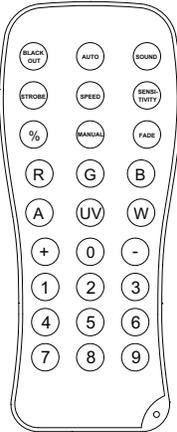
1. Turn the power switch to the Off position.
2. Remove the battery cover by removing 2 screws with a Phillips-head screwdriver.
3. Remove the old battery from the housing and unplug it from the leads.
4. Replace with a new 9-volt battery, ensuring that the positive (+) and negative (-) leads correspond to the correct electrodes on the battery.
5. Place the battery into the housing and cover with the battery cover.
6. Secure the battery cover with the 2 Phillips-head screws.



Do NOT over-tighten the screws!

IRC-6 Infrared Remote Control

The 4BAR Flex Q ILS can be operated with the Chauvet IRC-6.



Button	Function
<BLACKOUT>	Turns LEDs on/off
<AUTO>	Enables snap and fade modes
<SOUND>	Enables sound active mode
<SPEED>	Increases and decreases speed
<SENSITIVITY>	Adjusts sound sensitivity
<FADE>	Fade program
<STROBE>	Adjusts strobe speed
<%>	Adjusts brightness
<R,G,B,A>	Adjust percentage of red, green, blue, and amber colors
<0>-<9>	1=C1 2=C16 3=C17 4=C18 5=C19 6=C20 7=C2 8=C22 9=C23 0=C8
<+>	Increases values for controls as described above
<->	Decreases values for controls as described above



The IRC-6 will not respond to any inputs when Black Out is activated. If the remote does not respond when a button is pressed, try pressing <BLACK OUT>. User may have inadvertently activated Black Out.

D-Fi USB Master/Slave Mode

The D-Fi USB allows a single 4BAR Flex Q ILS product (the “master”) to control the actions of one or more 4BAR Flex Q ILS 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 DMX 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 **4-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.**

ILS Mode

ILS (Integrated Lighting System) provides 4 modes that synchronize with the GigBAR MOVE+ILS: Modes 1 and 3 synchronize with side 1 of the GigBAR MOVE+ILS, whereas modes 2 and 4 synchronize with side 2 of the GigBAR MOVE+ILS. When linked, effects will sync with the most similar effect on the selected side of the GigBAR MOVE+ILS: Kinta effects will sync with one of the kintas, moving heads will sync with one of the moving heads, and wash effects will sync with one of the pars. Laser effects will sync with the laser, and strobe effects will sync with the strobe effects regardless of ILS mode.

This product will synchronize with the par effects of the GigBAR MOVE+ILS, regardless of ILS mode.

To set the 4BAR Flex Q ILS to respond to an ILS signal:

1. Press <MENU> repeatedly until **iLS_** shows on the display.
2. Use <UP> or <DOWN> to select from **iLS1-4**.
3. 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
4BAR Flex Q ILS	45.7 in (1,186 mm)	2 in (50 mm)	12 in (305 mm)	12.2 lb (5.5 kg)
Wireless Footswitch	16.5 in (419 mm)	5.2 in (132 mm)	1.5 in (38 mm)	1.2 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 VAC, 50/60 Hz	Auto-ranging
Parameter	120 V, 60 Hz	230 V, 50 Hz
Consumption	80 W	78 W
Operating current	1.2 A	0.6 A
Fuse	F 2.5 A, 250 V	F 2.5 A, 250 V
Power I/O	U.S./Worldwide	UK/Europe
Power input connector	IEC	IEC
Power cord plug	Edison (U.S.)	Local plug

Light Source

Type	Color	Quantity	Power	Current	Lifespan
LED	Quad-color RGBA	28	3.5 W	1.3 A	50,000 hours

Photometrics

Strobe Rate	Beam Angle	Field Angle	Illuminance @ 2 m
0 to 20 Hz	14°	23°	2,353 lux (per pod)

Thermal

Maximum External Temperature	Cooling System
104°F (40°C)	Convection

DMX

I/O Connector	Channel Range	Optional Controllers
3-pin XLR	4, 6, or 19	IRC-6, D-Fi USB

Ordering

Product Name	Item Code	UPC Number
4BAR Flex Q ILS	10032003	781462223519



Contact Us

General Information	Technical Support
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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.