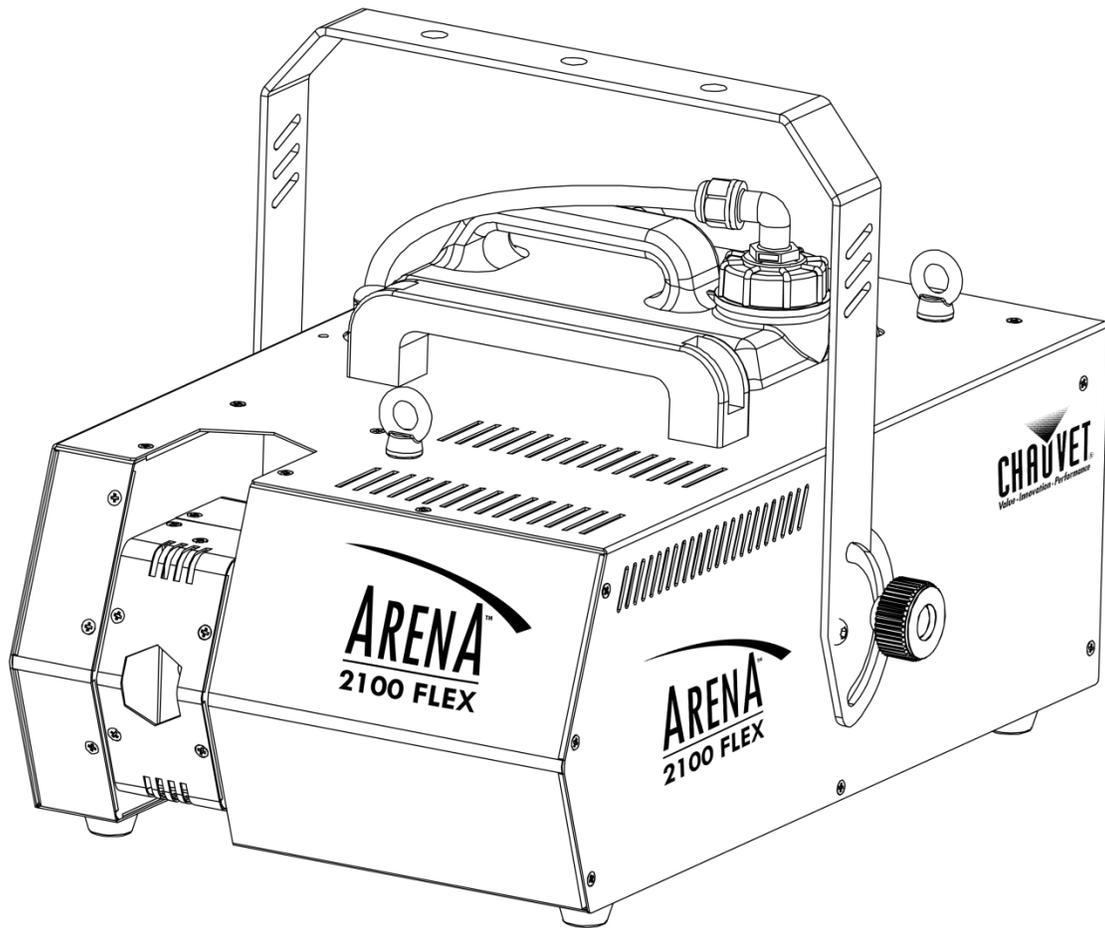


ARENA™

2100 FLEX *User Manual*



CHAUVET®
Value · Innovation · Performance

TABLE OF CONTENTS

1. Before You Begin.....	3
What Is Included	3
Claims.....	3
Text Conventions	3
Symbols.....	3
Disclaimer	3
Product at a Glance.....	3
Safety Notes	4
2. Introduction.....	5
Product Overview.....	5
Product Dimensions	6
3. Setup	7
AC Power	7
Resetting the Breaker.....	7
Mounting	8
Orientation.....	8
Rigging	8
4. Operation	9
Control Panel Operation	9
Menu Map.....	9
Configuration (DMX).....	9
Starting Address	9
Configuration (Standalone).....	9
Timer Mode	9
Volume Mode.....	10
Master/Slave Mode	10
On-board Remote Operation	10
Keychain Remote Operation.....	10
5. Technical Information	11
Fogger Maintenance	11
Storage	11
Contact Us	13
Returning Products to CHAUVET®.....	13
6. Technical Specifications	12

1. BEFORE YOU BEGIN

What Is Included

- Arena™ 2100 Flex
- Keychain Remote
- On-board Wired Remote
- Power Cord
- Warranty Card
- Quick Reference Guide

Claims

Immediately unpack the product and check the box to make sure all the parts are present and in good condition. If the box or the contents appear damaged from shipping, notify the carrier immediately, not CHAUVET®. Keep the box and all the packing material for inspection. For missing parts or damage not related to shipping, file a claim with CHAUVET® within 7 days of receiving the product.

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
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. Failure to comply might cause the product not to operate, damage the product, or harm the user.
	Important installation or configuration information. Follow this guidance to make sure the product functions correctly.
	Useful information.

Disclaimer

This manual is subject to change without notice. CHAUVET® assumes no responsibility or liability for any errors or omissions and reserves the right to make corrections without notice. Download the latest version of this manual from www.chauvetlighting.com.

© Copyright 2012 CHAUVET®. All rights reserved.

Electronically published by CHAUVET® in the U.S.A.

Author	Date	Editor	Date
A. Diaz	09/12/11	S. Graham	3/20/12

Product at a Glance

Use on Dimmer		Auto Programs	
Outdoor Use		Switchable voltage (120 V / 230 V)	
Sound Activated		Circuit breaker	
DMX		User Serviceable	
Master/Slave		Duty Cycle	

Safety Notes

Please read the following Safety Notes carefully before working with this product. They include important safety information about its installation, usage, and maintenance.



- Always connect this product to a grounded circuit to avoid the risk of electrocution.
- Always disconnect this product from the power source before cleaning it.
- Make sure the power cord is not crimped or damaged.
- Never disconnect this product from power cord by pulling or tugging on the cord.
- If mounting this product overhead, always secure it to a fastening device using a safety cable.
- Make sure there are no flammable materials close to the unit while operating.
- Do not touch this product's housing when operating because it may be very hot.
- Do not mount this product on a flammable surface (linoleum, carpet, wood, paper, carton, plastic, etc.)
- This product's nozzle is very hot during operation and it remains hot for a long time after operation has stopped.
- The fog exits the nozzle at a very high temperature. Keep a minimum distance of 6.5 ft (2 m) from the nozzle to the nearest object.
- Do not use this product as a space heater.
- Do not drink or come in contact with the fog fluid. If you do, call your local emergency service (911 in the US) for help.
- Do not add perfume, alcohol, gasoline, or any other flammables to the fog fluid.



- Always make sure that the voltage of the outlet to which you are connecting this product is within the range stated on the decal or rear panel of the product.
- This product is for indoor use only! (IP20) To prevent risk of fire or shock, do not expose this product to rain or moisture.
- Always install this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- Be sure that no ventilation slots on the unit's housing are blocked.
- Never connect this product to a dimmer.
- Never carry this product from the power cord or any moving part. Always use the hanging/mounting bracket or the handles.
- The maximum ambient temperature (Ta) is 104° F (40° C). Do not operate this product at higher temperatures.
- In the event of a serious operating problem, stop using the unit immediately.
- Never try to repair this product. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center.
- Use only CHAUVET® water-based fog fluid.



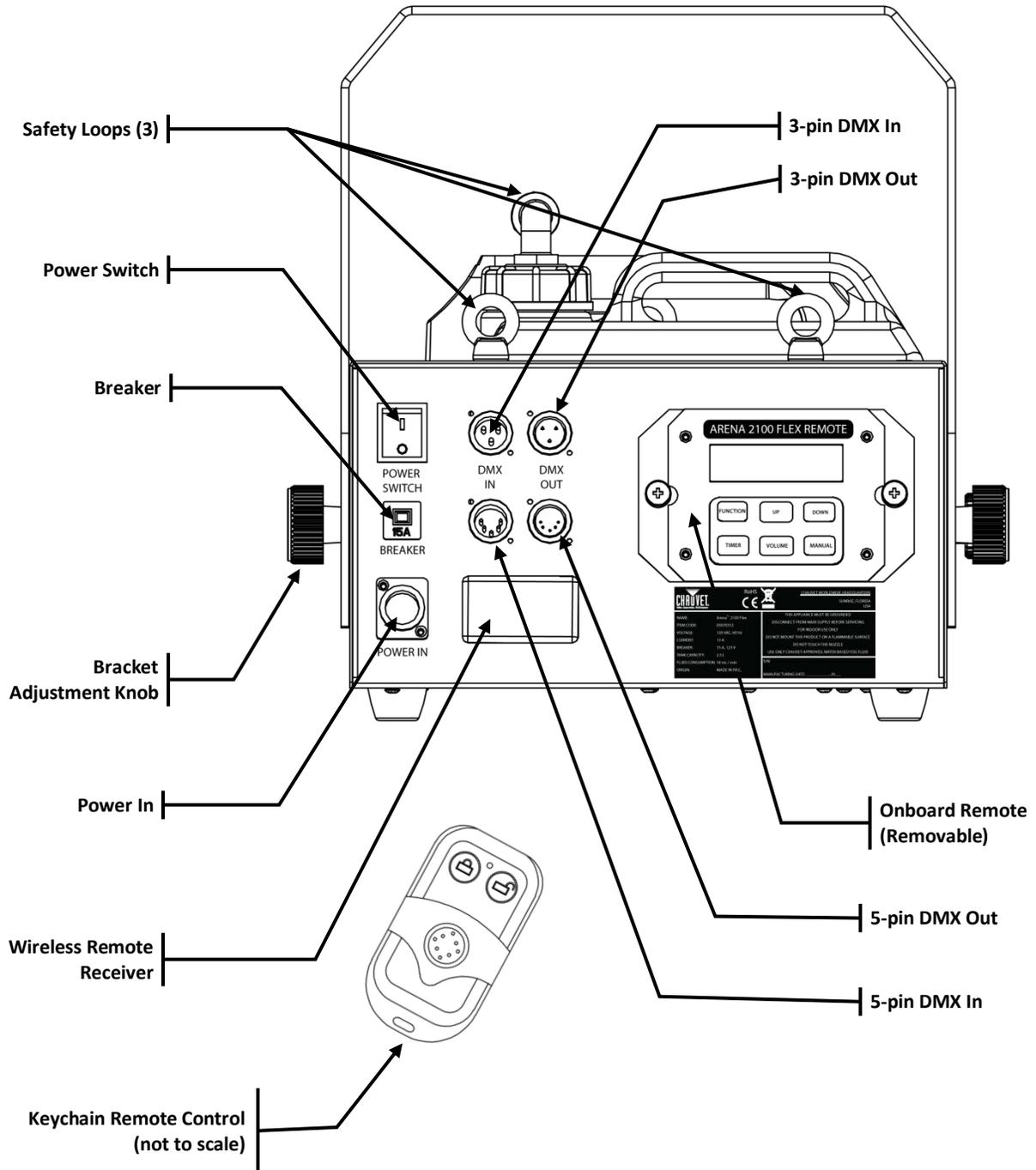
FCQ (Fog Cleaner Quart) was specifically developed by Chauvet to clean your Arena™ 2100 Flex. Make sure you use FCQ regularly to increase the life of your fogger.



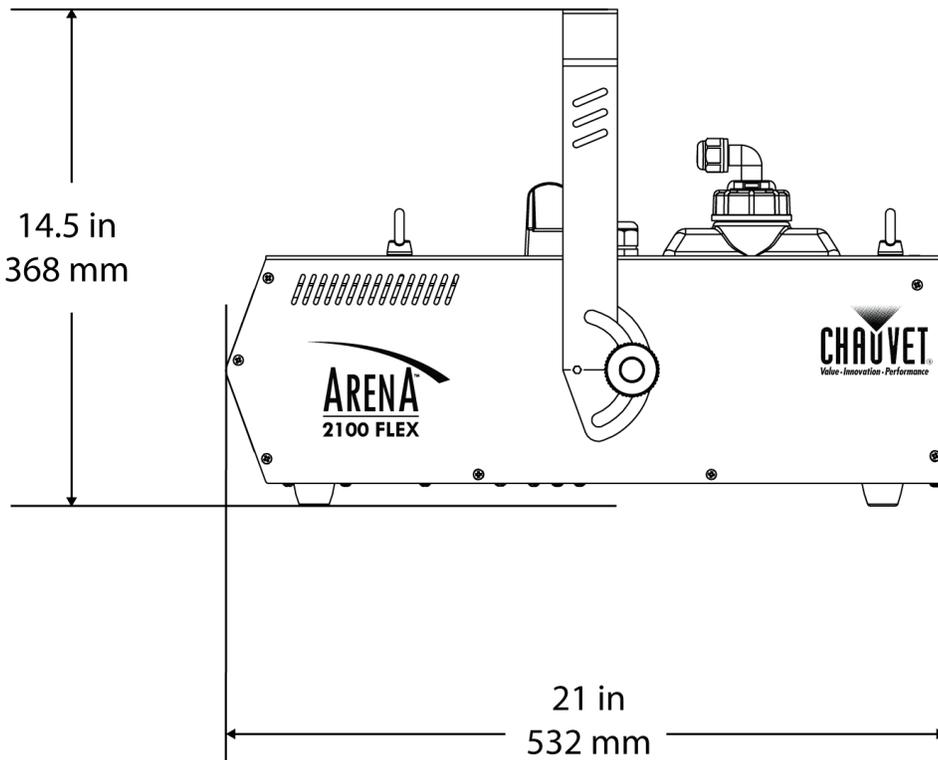
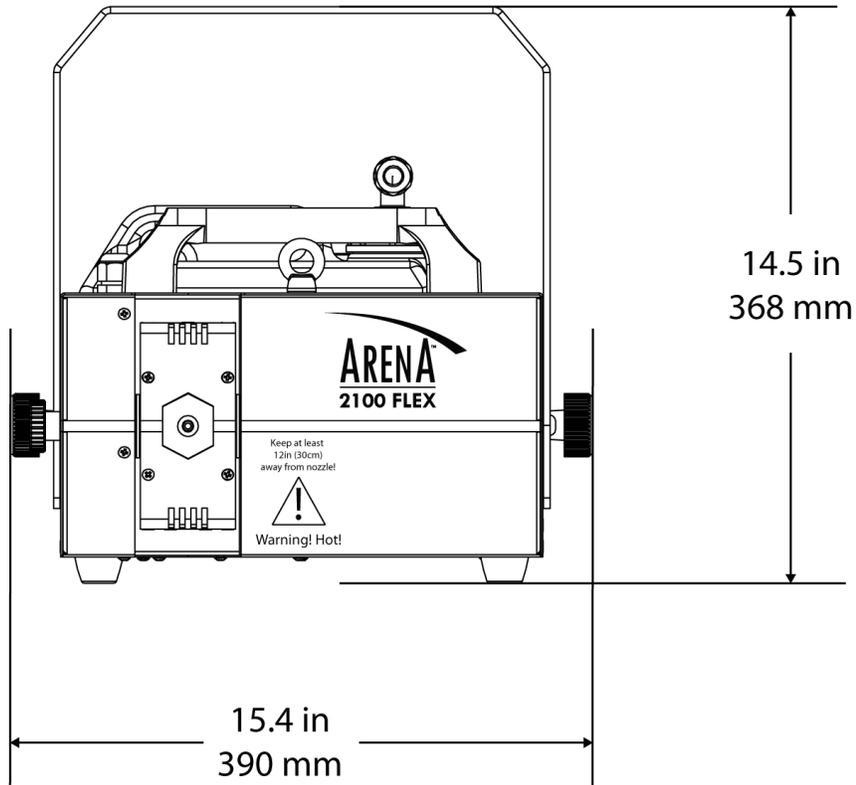
- Keep this User Manual for future consultation. If you sell this product to another user, be sure that they also receive this document.

2. INTRODUCTION

Product Overview



Product Dimensions



3. SETUP

AC Power

This product has a fixed voltage power supply and can work with an input voltage of either 120 V, 60 Hz or 230 V, 50 Hz, depending on the specific model.

To determine the power requirements for this product (circuit breaker, power outlet, and wiring), use the current value listed on the label affixed to the product's back panel, or see the [Technical Specifications](#). The listed current rating indicates the product's average current draw under normal conditions.



Always connect this product to a protected circuit (circuit breaker or fuse), making sure that it has an appropriate electrical ground to avoid the risk of electrocution or fire.



Never connect this product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0-100% switch.

Resetting the Breaker

This product uses a resettable circuit breaker. Follow the instructions below to reset.



Disconnect this product from the power outlet before resetting the breaker.

This product is equipped with a resettable circuit breaker on the power input circuit.

1. Remove the power cord from the power outlet.
2. Allow unit to cool for 15 minutes.
3. After 15 minutes, you may attempt to reset the breaker by pressing the button with your index finger until it latches in the operation position.
4. Plug the product's power cord into the power outlet and continue using as recommended.



If the breaker does not reset (the breaker button will not remain inserted), contact CHAUVET® immediately, as this indicates a possible internal malfunction.

Mounting

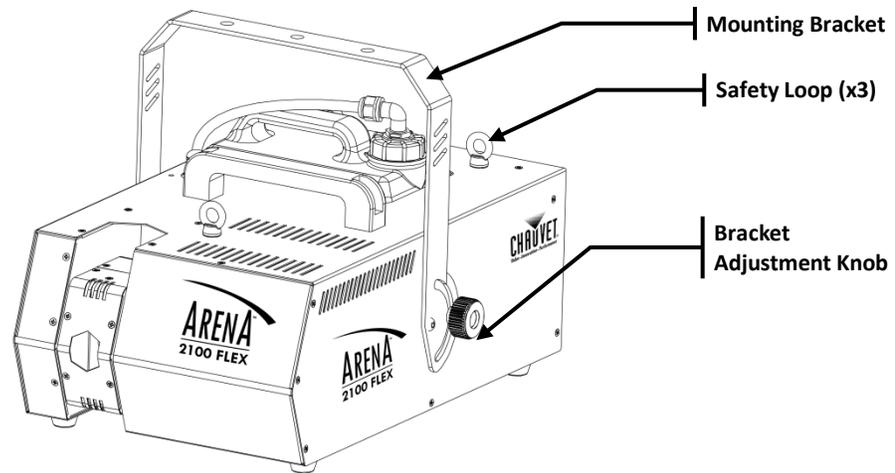
Before mounting this product, read and follow the [Safety Notes](#).

Orientation

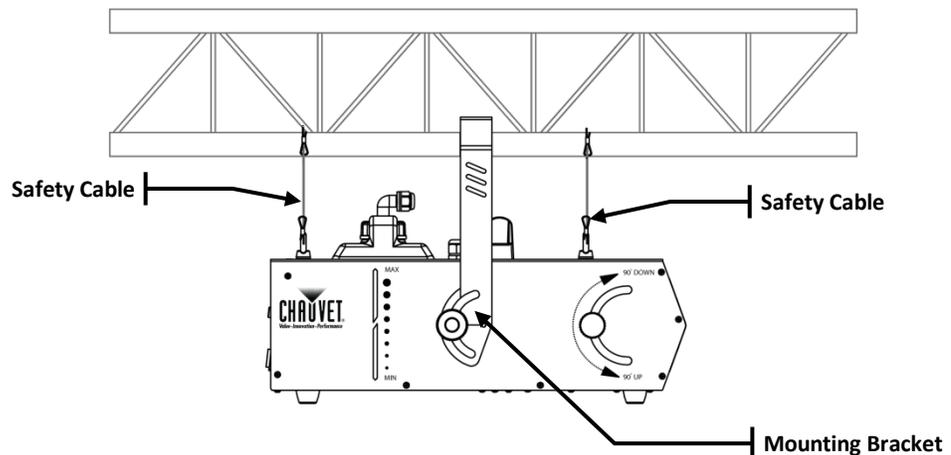
The Arena™ 2100 Flex may be mounted in any position; however, make sure adequate ventilation is provided around the product.

Rigging

- Before deciding on a location for this product, always make sure that it will be easy to access the unit for maintenance and programming/fluid replenishment purposes.
- Make sure that the structure or surface onto which you are mounting this product can support its weight (see the [Technical Specifications](#)).
- When mounting this product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.
- When rigging this product to a truss, use a mounting clamp of appropriate weight capacity (the bracket has a 13-mm hole 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.



Mounting Diagram



When mounting, use either a clamp attached to the truss and a safety cable, or use 3 safety cables attached to all 3 safety loops.

4. OPERATION

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

Control Panel Operation

Button	Function
<FUNCTION>	Press to find an operation mode or to back out of the current menu
<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
<TIMER>	Turns on Timer Mode
<VOLUME>	Turns on Volume Mode
<MANUAL>	Controls fog output manually

Menu Map

Mode	Programming Steps	Description
Interval Set	1~200	Adjusts the fog output interval (in seconds)
Duration Set	1~200	Adjusts the fog output interval (in seconds)
Timer Out	1~100%	Adjusts the fog output volume of Timer Mode
Volume Out	1~100%	Adjusts the fog output volume of Volume Mode
DMX 512 Add	1~512	Sets the DMX address
Wireless On	On Off	Turns the wireless function on or off

Configuration (DMX)

Set this product in DMX mode to control with a DMX controller. When connected to DMX, the fogger will operate in an off-on mode at whatever settings were set through the control panel.

1. Connect this product to a suitable power outlet.
2. Turn this product on.
3. Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket of this product.

Starting Address

The Arena™ 2100 Flex uses one DMX channel in its 1-Channel DMX mode, which defines the highest configurable address to **512**. If you are unfamiliar with DMX, download the DMX Primer from www.chauvetlighting.com.

To select the starting address, do the following:

1. Press <FUNCTION> repeatedly until **DMX 512 Add** shows on the display.
2. Use <UP> or <DOWN> to select the starting address.

Configuration (Standalone)

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

1. Connect this product to a suitable power outlet.
2. Turn this product on.



Never connect a product that is operating in any standalone mode, whether Static, Automatic, or Sound to a DMX string connected to a DMX controller. This is because products in standalone mode may transmit DMX signals that could interfere with the DMX signals from the controller.

Timer Mode

To enable the Timer mode, do the following:

1. Connect this product to a suitable power outlet.
2. Turn this product on.
3. Press <FUNCTION> repeatedly until **Interval Set** shows on the display.
4. Use <UP> or <DOWN> to select the time in between haze.
5. Press <FUNCTION> repeatedly until **Duration Set** shows on the display.

6. Use **<UP>** or **<DOWN>** to select the duration of haze.
7. Press **<FUNCTION>** repeatedly until **Timer Out** shows on the display.
8. Use **<UP>** or **<DOWN>** to select the volume of haze.
9. Press **<TIMER>** to activate the mode with the above settings.

Volume Mode

To enable the Volume mode, do the following:

1. Connect this product to a suitable power outlet.
2. Turn this product on.
3. Press **<FUNCTION>** repeatedly until **Volume Out** shows on the display.
4. Use **<UP>** or **<DOWN>** to select the volume of haze.
5. Press **<VOLUME>** to activate the mode with the above settings.

Master/Slave Mode

The Master/Slave mode allows a single Arena™ 2100 Flex unit (the master) to control the actions of one or more Arena™ 2100 Flex units (the slaves) without a DMX controller. The master unit is set to operate in Timer, Volume, or Manual mode, while the slave units are set to operate in DMX 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. Press **<FUNCTION>** repeatedly until **DMX 512 Add** shows on the display.
2. Set the DMX address to **001**.
3. Connect the DMX input of the first slave unit to the DMX output of the master unit.
4. Connect the DMX input of the subsequent slave units to the DMX output of the previous slave unit.
5. Finish setting and connecting all the slave units.

Master unit:

1. Set the master unit to operate in Timer, Volume, or Manual 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.**



On-board Remote Operation

The On-board Remote Controller is pre-installed on the back of the product. It serves as both the fogger's display panel and as a hand-held, wired control device. The on-board remote can be used to set up the Keychain Remote Control, volume, and timer functions as a standalone method of operation.

Keychain Remote Operation

The Arena™ 2100 Flex comes with a wireless Keychain Remote Control for easy operation. The Keychain Remote turns fog on and off according to the configuration at the time of use. To configure specific functions such as volume or timing of fog, either DMX or the On-board Remote Controller must be used.

To sync and use the Keychain Remote:

1. Power the fogger off, then back on.
2. While the fogger powers up and the display of the On-Board Remote Controller reads "Wireless Setup," press and hold the stop button (open-lock symbol) of the Keychain Remote until the LCD screen flashes.
3. Press the on button (closed-lock symbol) of the Keychain Remote to emit fog. To stop the flow, press the stop button (open-lock symbol).

5. TECHNICAL INFORMATION

Fogger Maintenance

Do not allow the fog machine to become contaminated. After every 40 hours of continuous operation, CHAUVET® recommends running a cleaning solution composed of 80% distilled water and 20% distilled vinegar through the system to prevent the accumulation of particulate matter in the heating element.

The recommended cleaning procedure is as follows:

1. Empty all fog liquid from the machine.
2. Add cleaning solution to tank.
3. Plug unit in and allow it to warm up.
4. Run the unit in a well-ventilated area until the tank is almost empty. Do not allow the pump to run dry.
5. Cleaning is now complete. Refill with fog liquid. Run the machine briefly to clear any cleaning solution from the pump and heater.

Storage

Before storing this product, run distilled water (not tap water) through the system as described in the cleaning method above. This will help to avoid any particles condensing inside the pump or heater.

It is strongly recommended to test-run the machine on a monthly basis in order to achieve its best fogging condition.



FCQ (Fog Cleaner Quart) was specifically developed by Chauvet to clean your Arena™ 2100 Flex. Make sure you use FCQ regularly to increase the life of your fogger.

6. TECHNICAL SPECIFICATIONS

Dimensions and Weight	Length	Width	Height	Weight
	21 in (542 mm)	15.4 in (390 mm)	14.5 in (368 mm)	35 lbs (15.8 kg)
Note: Dimensions in inches rounded to the nearest decimal digit.				
Power	Power Supply Type	Range	Voltage Selection	
	Magnetic (internal)	120 V, 60 Hz or 230 V, 50 Hz	Fixed voltage	
	Parameter	120 V, 60 Hz	230 V, 50 Hz	
	Consumption	1460 W	1460 W	
	Operating Breaker	12.2 A 15 A	6.3 A 15 A	
Power I/O	Power I/O	US/Worldwide		
	Power input connector	Neutrik® powerCON® A		
	Power Cord plug	Edison (US)		
Operation/Consumption/Capacity	Heat-up Time	Tank Capacity	Fluid Consumption	
	8 min	1.3 gal (5 l)	100 ml/min	
Misc.	Output	Remote Length	Tilt	
	30,000 cfm	14.7 ft (4.5 m)	180°	
Thermal	Maximum External Temp.	Cooling System		
	104° F (40° C)	Convection		
DMX	I/O Connectors	Connector Type	Channel Range	
	3- and 5-pin XLR	Sockets	1	
Ordering	Product Name	Item Code	Item Number	
	Arena™ 2100 Flex	05070312 (120 V version)	ARENA2100FLEX	
	Arena™ 2100 Flex – 220 V	05070322 (220 V version)	220VARENA2100FLEX	

If you live in the U.S.A., contact CHAUVET® World Headquarters (see below).
If you live in the UK or Ireland, contact CHAUVET® Europe Ltd.(see below).
If you live in any other country, your distributor (see www.chauvetlighting.com for an international distributor directory).

Contact Us

World Headquarters

CHAUVET®

General Information

Address: 5200 NW 108th Avenue
Sunrise, FL 33351
Voice: (954) 929-1115
Fax: (954) 929-5560
Toll free: (800) 762-1084

Technical Support

Voice: (954) 929-1115 (Press 4)
Fax: (954) 756-8015
Email: tech@chauvetlighting.com

World Wide Web

www.chauvetlighting.com

United Kingdom & Ireland

CHAUVET® Europe Ltd.

General Information

Address: Unit 1C
Brookhill Road Industrial Estate
Pinxton, Nottingham, UK
NG16 6NT
Voice: +44 (0)1773 511115
Fax: +44 (0)1773 511110

Technical Support

Email: uktech@chauvetlighting.com

World Wide Web

www.chauvetlighting.co.uk



If you live outside the U.S.A., United Kingdom, or Ireland, contact your distributor of record and follow their instructions on how to return CHAUVET® products to them. Visit our Web site for contact details.

Returning Products to CHAUVET®

Call the corresponding CHAUVET® Tech 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.



DO NOT write the RMA number directly on the box. Instead, write it on a properly affixed label.

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
- The 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. Fedx packing or double-boxing are recommended.



CHAUVET® reserves the right to use its own discretion to repair or replace returned product(s).