

# firebase

## Smoke Generators

### SG-Z1200 USER MANUAL



CONFORMS TO  
ANSI/UL STD.998  
CERTIFIED TO  
CAN/CSA STD.  
C22.2 No.104



**Read and save these instructions**

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# *User Manual*

## 1. Introduction

Please read the user manual before operating the machine, and place the manual where the user can refer to it at all times. The manual includes how to install and operate the machine under safe conditions and explain all the labels printed on the machine. If you encounter any problems, please contact Froggy's Fog for assistance immediately.

## 2. Safety Information

 <b>DANGER</b>	If the danger is not avoided, it will cause death or serious injury
 <b>WARNING</b>	If the warning is not heeded, it can cause death or serious injury.
 <b>CAUTION</b>	If the precaution is not taken, it may cause minor or moderate injury.



### **DANGER**

- Connect the machine to the correct rated voltage or it might lead to an electrical shock or a burn and may cause serious consequences.
- Connect the machine to a protected circuit and ensure it is properly grounded to avoid the risk of electrocution. For grounding instruction, please refer to Appendix I.
- Do not operate the machine with a coiled power cord, it could lead to a fire hazard.
- When operating the machine, do not point at close range towards people, animals, or fire.



### **WARNING**

- Machine's nozzle is extremely hot, please keep at least 50cm distance from the nozzle when the machine is running.
- Please operate the machine on a flat, level hard and well ventilated surface area, reserve at least 50cm space around the machine and make sure there is no flammable gas or material nearby.
- Do not disassemble, repair or modify the machine, it may cause damages, malfunction, risk of electrical shock or result in fire.
- The machine can only be operated by adults or professionals, is not intended for use by persons with reduced physical sensory, mental capabilities, or lack of experience and knowledge including children.
- Do not leave the machine running unattended, make sure all powers are off when leaving.
- Children should be supervised to ensure that they do not play with the machine.
- Do not use the machine upside down or tilt it, it might cause damages or malfunction.
- Please store the fluid inside in a well ventilated area without direct sunlight and keep out of reach of children. In case of eye contact or accidentally swallow the fluid, please seek medical attention immediately.



### **CAUTION**

- Keep the machine dry at all time. The machine is not waterproof, do not expose the machine to water, rain or moisture environment.
- Please make sure the power outlet is not damaged or loose before plug in the power cord.

- If the power cord is damaged, please remove from service and seek a replacement.
- Before operating the machine, please sure the fluid is filled in the fluid tank to avoid the pump in idling state which could lead to overeat or malfunction.
- Before transporting the machine, please make sure the fluid is drained and tank is empty. (Recommend using original package)
- Do not operate the machine in any area with unstable voltage.
- If you experience strange sound or malfunction, turn off the power and unplug the power cord immediately and contact Froggy's Fog.
- Only use accessories recommended or sold by Froggy's Fog.
- Please make sure the power is off when not using the machine and unplug the power cord if not intend to use for a long period of time.
- To disconnect, turn all controls to the off position, then remove plug from outlet.
- Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.
- Unplug from outlet before servicing or cleaning.
- Do not operate the machine with a damaged cord or plug, or after the machine malfunctions or is dropped or damaged in any manner. Return machine to the nearest authorized service facility for examination, repair, or electrical or mechanical adjustment.
- To ensure the lifespan of the machine, please only use the fluid manufactured by Froggy's Fog.

Before operating the machine, please read all warning labels on the machine, description as below;

Top Cover Printing

**WARNING!**

HOT NOZZLE!

KEEP AT LEAST 50 CM DISTANCE

Rear Cover Printing

**WARNING!**

DISCONNECT POWER BEFORE CHANGING FUSE.

USE ONLY WITH ADULT SUPERVISION.

DO NOT OPERATE WITHOUT LIQUID.

FOR INDOOR USE ONLY. KEEP DRY.

NO USER SERVICEABLE PARTS INSIDE.

**LIQUID**

ONLY USE MANUFACTURER DESIGNATED FLUID.

**ATTENTION!**

NEVER ADD FLAMMABLE SUBSTANCES.

### 3. Package Contents & Inspection

Immediately upon receiving the machine, carefully unpack the carton, check the content to ensure it is the correct model and all parts are included. If any part appears to be damaged or missing during transportation, please contact your local dealer and return in original package for inspection.

#### 3.1 Package Contents

- 1 x SG-Z1200 Smoke Generator Machine
- 1 x Power Cable
- 1 x Hanging Bracket
- 1 x User Manual or Scan QR Code on the Machine

### 3.2 Optional Accessories

Item Code	Description
Z-3	Cable Remote
Z-50	Wireless Remote

### 4. Machine Details



01. Fog Nozzle	07. Fluid Indicator
02. Safety Ring	08. Cable Remote Connector
03. Hanging Bracket	09. IEC Connector (Power)
04. 2.5 Liter Fluid Tank	10. Two in One Power & Breaker Switch
05. LCD Display	11. XLR 5-Pin Connector (DMX)
06. Operating Buttons	

### 5. Technical Label Information

Please read the technical label information on the back of the machine before operating it.

1. Model Name	5. Breaker/Fuse
2. Input Voltage	6. QR CODE for User Manual
3. Frequency	7. Serial No.
4. Rated Power	

### 6. Fog Fluid

	<b>CAUTION!</b>	Always turn off the power before filling the fluid tank. Do not add flammable liquid to the fluid tank. If fluid gets inside the machine, please contact Froggy's Fog for assistance.
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- The machine is tested and calibrated with the specific fog fluid to get the best performance.
- Please empty the fluid in the tank before switching to another fluid to avoid mixing.

## 7. Setting and Manual Operation

	<b>WARNING</b>	Machine falling off might cause serious injury, please make sure it is secure and firm on the overhead.
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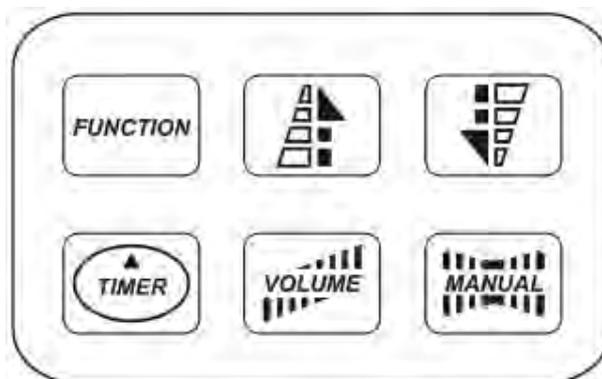
- Step 1.** Place the machine on a flat, level hard and well ventilated surface area and reserve at least 50cm open space around the machine, and make sure there is no flammable gas or material nearby;
- Step 2.** Fill the fluid tank with Froggy's Fog approved fog liquid, and make sure the tube is not twisted;
- Step 3.** Connect the machine to the power outlet. Please read the technical label on the back of the machine and make sure the power outlet is the correspond to the rated voltage for the machine;
- Step 4.** Turn on the machine, warm up process takes approximately 10 minutes. Once the machine has reached operating temperature, the LCD display will show “Ready To Fog”. Now the machine is ready for operation;
- Step 5.** To start fogging, press [TIMER] once and to stop fogging, press [TIMER] again or press [MANUAL], this will run based on “interval” & “duration” setting in the main menu;
- Step 6.** To start fogging, you can also press [VOLUME] button once and to stop fogging, press [VOUME] again or press [MANUAL]. You can adjust the output by press  and  button;
- Step 7.** To turn off the machine, please make sure the machine is not operating then turn of the power. If you will not use the machine a long period of time, please remove the power cord.

## 8. Control Settings

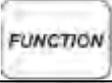
SG-Z1200 Smoke Generator can be operated in the following modes. The machine can only accept 1 type of signal at a time.

- Manual
- Timer
- DMX512
- Wireless
- Cable Remote

### 8.1 Control Panel Description



SG-Z1200 Smoke Generator can be operated with the onboard digital control interface.

Button	Operating Method	Action
	Press	To enter setting menu
	Press	Increase value
	Press	Decrease value
	Press	1. Press to start fogging according to the set time 2. Press again to stop fogging
	Press	1. Press to start fogging according to set volume output 2. Press again to stop fogging
	Press	1. Press and hold 3 sec. to force fogging and drain the air out of the tube 2. Press once to choose function in set menu 3. Leave setting menu 4. Stop fogging

## 8.2 Menu Options Description

Options	Description
Interval	Set Interval between 1-200 sec
Duration	Set Duration between 1-200 sec
Timer	1-100% / NONSTOP
Volume	1-100% / NONSTOP
DMX512 Add.001	001-512
Fluid Sensor	On / Off
Run Last Set	On / Off
Backlite	AutoOff / AlwaysOn
KeySound	On / Off
Fluid Type	TS-FR, TS-XD, TS-Q
Default Proceed	Yes / No

## 9. Machine Status

### 9.1 Machine Status with LCD Display

Screen	Description
Z-1200 III v1.0	Software Version
AC-120V 60Hz	Input Voltage
Ready To Fog	Machine is ready to Operate
Remote Out 100%	Cable Remote In Use
Volume Out 100%	Fog Output level at Manual Mode
Interval 200 sec	Running at Timer Mode, Interval Time
Duration 200 sec	Running at Timer Mode, Duration Time
DMX-512; Add: 001	DMX
Manual Output	Priming Fluid
RunSleep 180 sec	Sleep Mode Countdown: 180 sec
Warming Up 10%	Heating Up
Heater Overheat	Heater is Overheated
Heater Fault	Heater Malfunction
Thermal Line Off	Thermal Line Break Off
Line Reversed	Thermal Line Reverse Connection
Wrong!! AC Power	Incorrect AC Power

\*\*If LCD control panel display “Warning”, please stop operating and turn off the machine immediately. Contact Froggy's Fog for service.

## 10. DMX Connection

### 10.1 DMX Connector Pin Assignment

The machine has a XLR 5-Pin for DMX connection. The diagram below indicates pin assignment information.

 <p>5 Pin XLR</p> <table border="1" style="margin-left: auto; margin-right: auto; border-collapse: collapse;"> <thead> <tr> <th style="width: 15%;">Pin</th> <th style="width: 85%;">Function</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1</td> <td style="text-align: center;">Ground</td> </tr> <tr> <td style="text-align: center;">2</td> <td style="text-align: center;">Data-</td> </tr> <tr> <td style="text-align: center;">3</td> <td style="text-align: center;">Data+</td> </tr> <tr> <td style="text-align: center;">4</td> <td style="text-align: center;">NA</td> </tr> <tr> <td style="text-align: center;">5</td> <td style="text-align: center;">NA</td> </tr> </tbody> </table>	Pin	Function	1	Ground	2	Data-	3	Data+	4	NA	5	NA	<p>** There is a protection cap on DMX IN, please remove it with your finger before operation.</p> 
Pin	Function												
1	Ground												
2	Data-												
3	Data+												
4	NA												
5	NA												

### 10.2 DMX Channel Function

1 Channel Mode		DMX Value Range	Function
Channel 1	Fog Output Level	0 – 5	Off
		6 – 255	1 – 100%

## 11. RDM Function

This Machine is RDM enabled, allowing control system to configure, monitor and manage. See below table for supported RDM parameters.

GET Allowed	SET Allowed	Category	RDM Parameter ID's(Slot 21-22)	Value	Required
		NetworkManagement	DISC_UNIQUE_BRANCH	0x0001	O
				0x0002	O
				0x0003	O
		RDM Information RDM	QUEUED_MESSAGE	0x0020	
			STATUS_MESSAGES	0x0030	
			SUPPORTED_PARAMETERS	0x0050	O
			PAPAMETER_DESCRIPTION	0x0051	O
		Product Information	DEVICE_INFO	0x0060	O
			PRODUCT_DETAIL_ID_LIST	0x0070	
			DEVICE_MODE_DESCRIPTION	0x0080	
			MANUFACTURER_LABEL	0x0081	
	O		DEVICE_LABEL	0x0082	
			SOFTWARE_VERSION_LABEL	0x00C0	O
	O	DMX512 Setup DMX512	DMX_PERSONALITY	0x00E0	
			DMX_PERSONALITY_DESCRIPTION	0x00E1	
	O		DMX_START_ADDRESS	0x00F0	O
			SLOT_INFO	(0x0120)	

O			SLOT DESCRIPTION	(0x0121)	
O			DEFAULT_SLOT_VALUE	(0x0122)	
O		Sensors	SENSOR_DEFINITION	0x020	
O	O		SENSOR_VALUE	0x0201	
O		Control	DEVICE_HOURS	0x0400	
O	O		IDENTIFY_DEVICE	0x1000	O
O	O		POWER_STATE	0x1010	

## 12. Z-3 Cable Remote (Optional)



Z-3 Cable Remote is a standard accessory for SG-Z1200 Smoke Generator please see instruction below;

1. Plug the cable remote to the connector on the back of the machine, red indicator light on (Power);
2. Press the switch (Orange Indicator Light on); turn the knob to adjust the output to start fogging;
3. Press the switch (Orange Indicator Light Off), or turn the knob to far left to stop fogging.

\*\* If you encounter any problem, please contact your local Antari dealer for assistant.

## 13. Z-50 Wireless Remote (Optional)



Z-50 Wireless Remote is an optional accessory for SG-Z1200 Smoke Generator No pairing is required, please see instruction below;

1. Plug the receiver to the connector on the back of the machine;
2. Press either RED button to start fogging and release the RED button to stop fogging.

\*\* Signal range is approximately 50m in open area, it may vary depending on actual situation on site.

\*\* If you encounter any problem, please contact Froggy's Fog for assistance.

## 14. Service and Maintenance

	<b>DANGER!</b>	Disconnect the power cord before starting maintenance operation!
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- Always keep the machine clean.

- Can use air compressor, vacuum or a soft brush to remove the dust on the machine.
- Can use a slightly damp cloth to clean the casing.
- Before store the machine, please make sure the machine is completely cool down to avoid moisture inside causing malfunction.
- It is recommended to run the machine at least once a month in order to maintain the machine's best performance and output condition.
- Excessive dust and build up liquid residue will reduce the performance and cause overheat.

### 14.1 Breaker Reset (2 in 1 Power Switch)

The 2 in 1 power switch combines power and breaker function. Please follow below steps to reset the breaker.

- Step 1: Please switch to the OFF position;
- Step 2: Wait 60 second;
- Step 3: Flip switch to ON position.

If the breaker (Switch) still jumps off after reset, please contact your local Antari dealer for assistance.

#### Breaker Specification

100-120V = 15A 250V  
220-240V = 9A 250V



## 15. Technical Specifications

	SG-Z1200
<b>Input Voltage</b>	US Model : AC 100-120V, 50/60Hz 10A EU Model : AC 220-240V, 50/60Hz 5.5A
<b>Rated Power</b>	1200W
<b>Warming-up Time</b>	10 minutes (approx.)
<b>Fluid Consumption</b>	85 ml/min (100% output)
<b>Fluid Tank Capacity</b>	2.5 Liters (0.66 gallon)
<b>Compatible Fluid</b>	TrainingSmoke - Fire and Rescue Smoke Fluid, TrainingSmoke - XD Smoke Fluid, TrainingSmoke - Quick Dissipating Smoke Fluid
<b>Ambient Temp. Range</b>	0°C – 40°C (32°F – 104°F)
<b>Control Methods</b>	Manual 、 Timer 、 DMX512 、 Wireless (Optional) 、 Cable Remote (Optional)
<b>Interface</b>	XLR 5-Pin Connector (DMX) 、 IEC Connector (Power)
<b>DMX Channels</b>	1 Channel
<b>Included Accessories</b>	Hanging Bracket
<b>Optional Accessories</b>	Z-3 Cable Remote 、 Z-50 Wireless Remote
<b>Dimension</b>	L 458 W 243 H 251 mm (L 18.03 W 9.57 H 9.88 inch)
<b>Weight</b>	11.0 kg (24.2 lbs.)

## Appendix I Grounding Instruction

This appliance must be grounded. In the event of malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**DANGER** – Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the appliance is properly grounded. Do not modify the plug provided with the appliance – if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120 V circuit, and has a grounding plug that looks like the plug illustrated in sketch A in Figure. A temporary adaptor, which looks like the adaptor illustrated in sketches B and C, may be used to connect this plug to a 2-pole receptacle as shown in sketch B if a properly grounded outlet is not available. The temporary adaptor should be used only until a properly grounded outlet can be installed by a qualified electrician. The green colored rigid ear, lug, and the like, extending from the adaptor must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adaptor is used, it must be held in place by the metal screw.

