Antari FOG MACHINE

USER MANUAL

ENGLISH

V1.0



HZ-1000

Product code: 60619

Haze Machine

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Hazer Technology HZ-1000

1. Introduction

Please read all 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 explains all the labels printed on the machine. If you encounter any problem, contact your local Antari dealer for assistance immediately.

2. Safety Information

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

DANGER

- Must connect the machine to the correct rated voltage or it might lead to an electrical shock or a burn and may cause serious consequences.
- Must 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 on page 15.
- Do not operate the machine with a bundled power cord, it could lead to a fire hazard.
- When operating the machine, do not point at people, animals, or fire.

WARNING

- Please operate the machine on a flat, level hard and well ventilated surface area, reserve at least 50 cm 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 person 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 times. 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, it must be replaced by Antari or its local dealers, otherwise the warranty will be void.
- Before transporting the machine, please make sure the fluid is drained and tank is empty. (Recommend using original package)
- The machine is for indoor use only.
- 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 your local Antari dealer for assistance.
- Do not contact any moving part.
- Only use accessories recommended or sold by Antari.
- 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 Antari, do not use other fluid or additive, otherwise it may clog the heater and cause malfunction.

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

Top Panel Printing
WARNING!
Please do not overfill the haze liquid. Make sure the liquid level does not exceed the mark.
Please use dealer recommended haze fluids only.

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

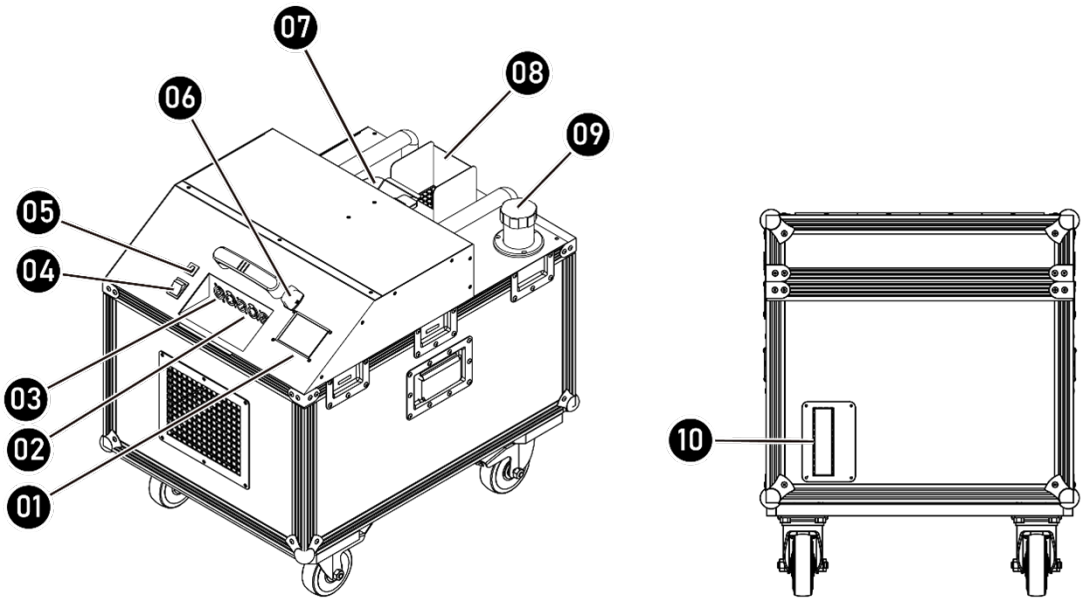
1 x HZ-1000 Haze Machine
1 x Neutrik powerCON Power Cable
1 x Quick Start Guide

3.2. Optional Accessories

Item Code	Description
TIMO-W-DXR-PCBR	W-DMX Receiver

4. Machine Details

Figure 1



01. TFT-LCD Touch Screen	06. Expansion Socket
02. XLR 3-Pin/5-Pin Connector DMX	07. Air Outlet
03. Neutrik powerCON Connector	08. Haze Outlet
04. Power Switch	09. Fluid Inlet
05. Breaker	10. Fluid Level Indicator

5. Technical Label Information

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

Figure 2



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

6. Haze Fluid

CAUTION
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 your local Antari dealer for assistant.

- Only the haze fluid manufactured by Antari can be used, do not mix or dilute the haze fluid. Due to improper storage or using other fluid might cause malfunction.
- The machine is tested and calibrated with the specific haze fluid to get the best performance.
- Please empty the fluid in the tank before switching to another fluid to avoid mixing.
- The warranty on your haze machine will be void if you use fog fluid not manufactured by Antari.

7. Setting and Manual Operation

WARNING
Machine falling off might cause serious injury, please make sure it is secure and firm on the overhead.

01) Place the machine on a flat, level hard and well ventilated surface area and reserve at least 50 cm open space around the machine, and make sure there is no flammable gas or material nearby;
02) Fill the fluid tank with Antari approved haze fluid;
03) Connect the machine to the power outlet. Please read the technical label (see 5. Technical Label Information on page 7) on the back of the machine and make sure the power outlet is the correspond to the rated voltage for the machine;
04) To start hazing, press [TIMER], this will run based on "interval" & "duration" set in the setting, to stop hazing, press [OFF], to resume press [ON];
05) Or to start hazing, press [VOLUME], and you can press [LOW] or [HIGH] output of your choice, and to stop hazing, press [OFF], to resume press [ON];
06) To turn off the machine, please make sure the machine is not operating then turn off the power. If you will not use the machine a long period of time, please remove the power cord.

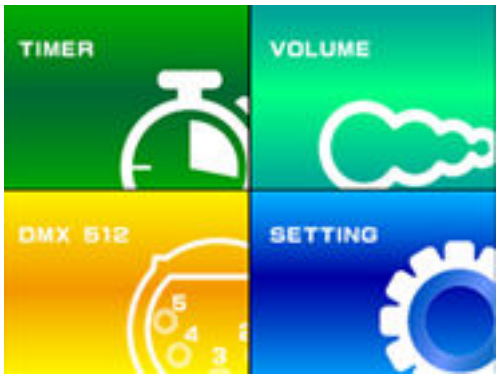
8. Control Settings

HZ-1000 Haze Machine can be operated in the following modes. The machine can only accept 1 type of signal at a time. When using different control modes at the same time, the machine will work according to built-in control priority:

- Manual
- Timer
- DMX512
- W-DMX

8.1. Control Panel Description

Figure 3



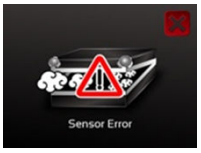
HZ-1000 Haze Machine can be operated with the onboard digital control interface.

Button	Operating Method	Action
	Press	1. Enter TIMER Mode 2. Start/Stop Hazing
	Press	1. Enter VOLUME Mode 2. Choose LOW/HIGH and Start Hazing 3. Start/Stop Hazing
	Press	1. Enter DMX Setting 2. Configure Values
	Press	1. Enter Setting Menu 2. Configure Value

8.2. Menu Options Description

Main Menu	Item	Description
Timer		LOW/HIGH/OFF
Volume		LOW/HIGH/OFF
DMX512		001–511
Setting	Interval Set	00 min 01 secs – 59 mins 59 secs
	Duration Set	00 min 01 secs – 59 mins 59 secs
	Timer Mode	LOW/HIGH
	Volume Mode	LOW/HIGH
	Fan Speed	20–100%
	DMX512	001–511
	WDMX	Power On/Off; Reset On/Off
	Sensor On/Off	On/Off
	Quick Start	On/Off

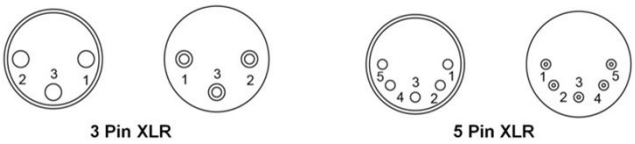
9. Machine Status Description

Screen	Description
	Flight case haze outlet cover is closed
	Compressor 1 is overheating
	Compressor 2 is overheating
	Machine internal termoerature is overheating

10. DMX Connection

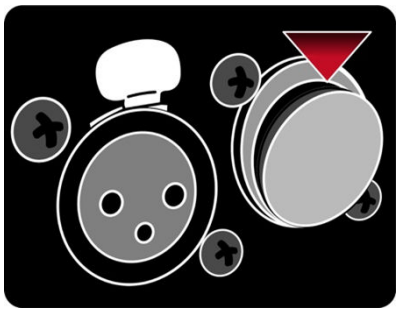
10.1. DMX Connector Pin Assignment

This machine has an XLR 3-Pin and 5-Pin connector for DMX connection. The diagram below indicates pin assignment information:



Pin	Function
1	Ground
2	Data-
3	Data+
4	N/A
5	N/A

**There is a protection cap on DMX IN, please remove it with your finger before operation.



10.2. DMX Channel Function

Channel 1	DMX Value Range	Function
Haze Output Level	0 – 5	Haze Off
	6 -128	Haze Output Low
	129 – 255	Haze Output High
Channel 2	**DMX Value Range**	**Function**
Fan Output Level	0 – 5	Fan 20%
	6 - 255	Fan 21 – 100%

11. RDM Function

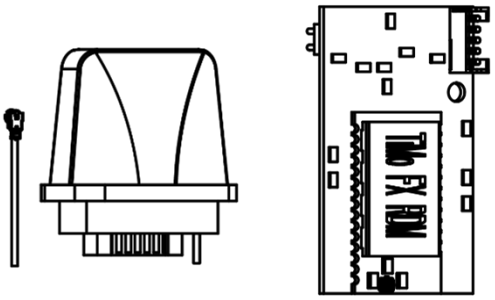
HZ-1000 Haze Machine is RDM enbaled, allowing control system to configure, monitor and manage. See below tabel for supported RDM parameters:

Value	RDM Parameter ID's	GET Allowed	SET Allowed
0x0001	DISC_UNIQUE_BRANCH		
0x0002	DISC_MUTE		
0x0003	DISC_UN_MUTE		
0x0030	STATUS_MESSAGE	O	
0x0050	SUPPORTED_PARAMETERS	O	
0x0060	DEVICE_INFO	O	
0x0070	PRODUCT_DETAIL_ID_LIST	O	
0x0080	DEVICE_MODEL_DESCRIPTION	O	
0x0081	MANUFACTURER_LABEL	O	
0x0082	DEVICE_LABEL	O	O
0x00C0	SOFTWARE_VERSION_LABEL	O	
0x00E0	DMX_PERSONALITY	O	O
0x00E1	DMX_PERSONALITY_DESCRIPTION	O	
0x00F0	DMX_START_ADDRESS	O	O
0x0200	SENSOR_DEFINITION	O	
0x0201	SENSOR_VALUE	O	
0x1000	IDENTIFY_DEVICE	O	O

12. TIMO-W-DMX-PCBR W-DMX (Optional)

TIMO-W-DMX-PCBR is a W-DMX receiver, it's an optional accessory for HZ-1000 Haze Machine. If you already purchased the machine with this option, it's ready to use. If you purchase afterward, please see the installation manual for details. If you encounter any problem, please contact your local Antari dealer for assistance.

Figure 4



12.1. W-DMX Connection

Symbol on the Display	Status of W-DMX connection
○	Transmitter not assigned
◎	Transmitter assigned, No DMX signal
⊙	Transmitter link lost or linking to transmitter
●	Transmitter assigned, DMX signal received

13. Service and Maintenance

DANGER
Disconnect the power cord before starting maintenance operation

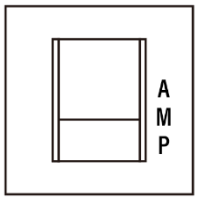
- Always keep the machine clean.
- Can use an air compressor, a vacuum or a soft brush to remove the dust on the machine.
- Can use a slightly damp cloth to clean the casing.
- Before storing or after using the machine, please make sure the fluid tank is empty and dry.
- It is recommended to run the 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 overheating.

13.1. Breaker Reset

Please follow the instructions below to reset the breaker;

01) Disconnect AC power
02) Flip breaker to "ON" position
03) Turn on machine for testing
**If the breaker still jumps off after reset, please contact your local Antari dealer for assistance.

Figure 5



Breaker Specification
120V = 12A 250V
240V = 7A 250V

14. Technical Specifications

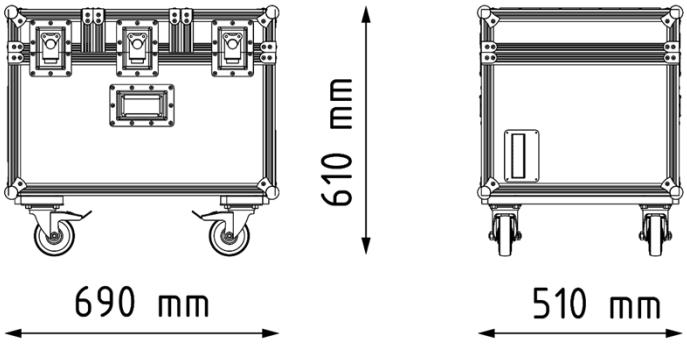
HZ-1000	
Input Voltage	US Model : AC 100 - 120 V, 50 / 60 Hz 10.0 A EU Model : AC 220 - 240 V, 50 / 60 Hz 5.0 A
Rated Power	1150 W
Fluid Consumption	2.2 ml/min (100% Output)
Fluid Tank Capacity	6.4 Liters (1.69 Gallons)
Compatible Fluid	Antari HZL Haze Fluid, Antari HZL-W Haze Fluid
Operating Time	40 hrs (100% output)
Ambient Temp. Range	0°C - 40°C (32°F - 104°F)
Control Methods	Manual, Timer, DMX 512, W-DMX (Optional)
Interface	XLR 3-Pin/5-Pin Connector (DMX), Neutrik powerCON Connector (Power)
DMX Channels	2 Channel
Included Accessories	N/A
Optional Accessories	TIMO-W-DMX-PCBR W-DMX Receiver
Dimension	L 690 W 510 H 610 mm (L 27.16 W 20.07 H 24.01 inch)
Weight	74.6 kg (164.46 lbs.)

15. Warranty Disclaimer

We guarantee the merchandise manufactured by us to be free from defect in material and workmanship for a period of one year. Our obligation and liability under this warranty shall be restricted to repair or replacement at our factory or local authorized dealer. We assume no liability of the products that are improperly used or used for any purpose other than that for which they are specially designed. This warranty shall not apply to any merchandise which has been repaired, altered or assembled outside our factory in any way so as in our judgment to affect its performance, nor which has been subjected to misuse, negligence, or accident nor to any merchandise operated contrary to our printed instructions. We will not allow or be liable of any loss or any damages of any kind in connection with the use, sale, or repair of any merchandise purchased from us.

16. Machine Dimension

Figure 6

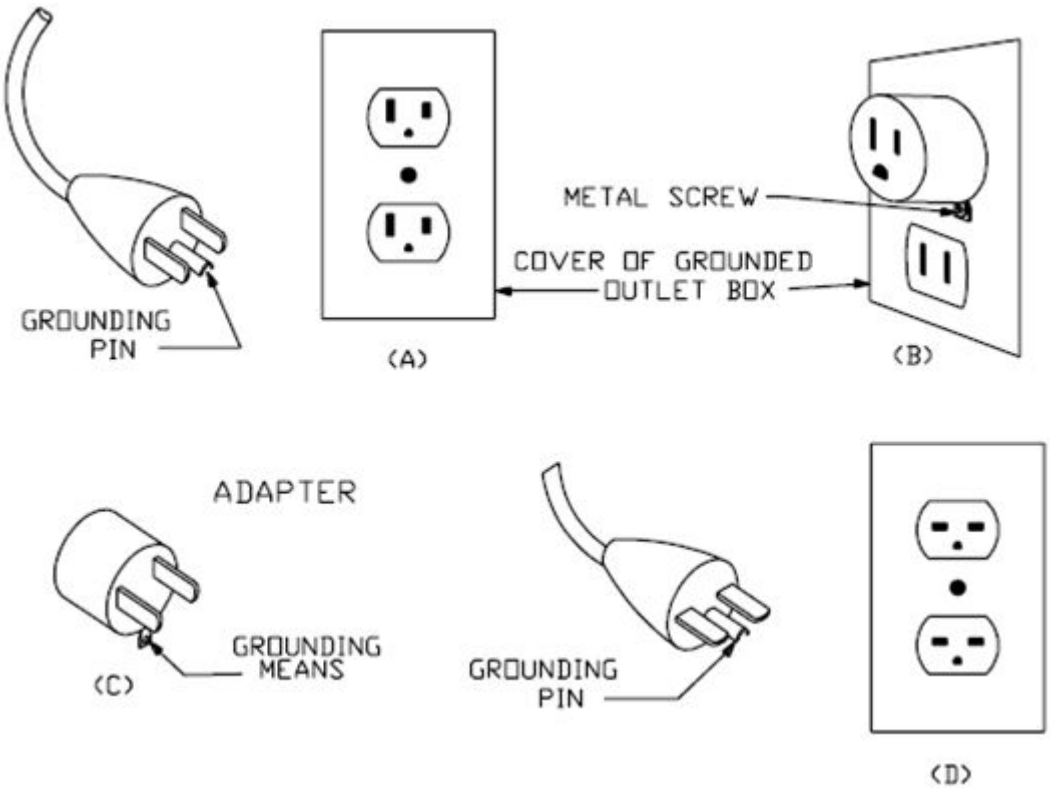


17. Appendix 1 Grounding Instruction

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.



Antari is imported by Highlite International B.V.