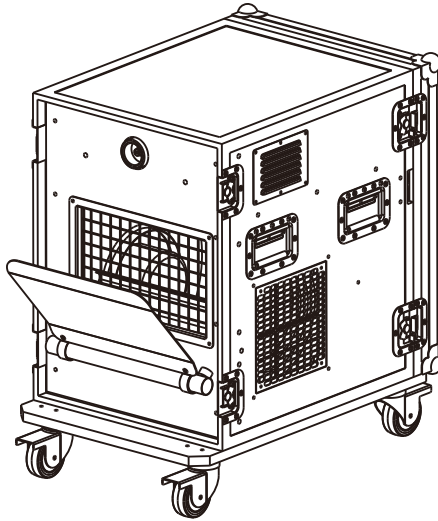




[ PRO STAGE EFFECTS ]



## **H-4000S**

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**WAVE HAZE MACHINE**  
**USER MANUAL**

## ◆ Foreword

Thank you very much of choosing the DJPOWER H-4000S wave haze machine. Before start operating, we strongly suggest to read the user manual carefully. By following the instructions in the user manual will ensure your safety while operating the machine, easily achieve the best effect, as well as understanding the right way to care for and maintain the machine in order to prolong the product life cycle.

## ◆ Introduction

H-4000S wave haze machine is specially designed for big shows. Integrated in a flight case, it creates enormous amounts of fog or fine, long-lasting haze to fill up the venue in minutes. It is perfect for theaters, large clubs, stage productions, rental companies and industrial applications.

## ◆ Features

- Ultimate all-in-one fog and haze machine for professional theatrical effects;
- Creates enormous amounts of fog or fine, long-lasting haze to fill up the venue in minutes;
- Large compartment fits two 5-liter cans;
- Advanced No-Fluid protection;
- Adjustable timer with interval, duration and output volume;
- Built-in high velocity fan with adjustable output angle;
- Integrated in a flight case (with castors), applicable for touring;
- Water-proof power switch;
- Anti-loose power plug;
- Independent controllable LED lights for night operation;
- Built-in LCD control, wireless control, 3pin and 5pin control, and DMX control;
- Perfect for theaters, large clubs, stage productions, rental companies and industrial applications;
- Please use DJPOWER professional haze fluid PRO-C or PRO-J.



**Must use DJPOWER high quality professional PRO-C/PRO-J fluid. If not, the machine will easily damaged .**

## ◆ Safety use

- Use grounded electrical outlet. Prior to use determine that unit is installed at the rated voltage.
- Turn off or unplug when not in use.
- This machine is not water-proof. Please keep the device away from moisture, water. If moisture, water, or fluid gets inside the housing, stop using.
- No user serviceable and modifiable parts inside. Do not disassemble the housing and do any modification; otherwise damage of the device or danger of burn may be caused.
- For adult use only. Hazer must be installed out of the reach of children. Never leave the unit running unattended. Keep the device away from fire, combustible and flammable materials.
- Position the machine in well-ventilated area. Please leave about 50cm spaces surrounding the machine.
- Please don't use the machine under the high temperature condition
- Never add flammable liquids of any kind (oil, gas, perfume) to the liquid.
- If something wrong happens while using, please stop the machine immediately, cut out the power, and check the oil stock, fuse, power line and power cord. If could not resolve, contact with your dealer.
- Never drink liquid. If it is ingested, call a doctor immediately. If liquid comes in contact with skin or eyes, rinse thoroughly with water.

### ◆ **Unpackaging and inspection**

Immediately upon receiving the machine, carefully unpack the carton, check all content to ensure that all parts are present and have been received in good condition. If any parts appear damaged or mishandled from shipping, please do not power on the machine. Contact with the shipper immediately.

### ◆ **What is included:**

1. 1 x H-4000S PRO Wave Haze Machine
2. 1 x Power Cord
3. 1 x User Manual

### ◆ **User Manual**

Double-Pumps function

Adopting double pumps design (Pump A and Pump B). When there is no fluid in one pump, machine can recognize and change to pump the fluid in another tank. If there is no liquid in both tanks, two pumps will stop working, and machine enter into the mode of "pump protection" (see below instruction)

### ◆ **Pump-protection function**

There is one in-built fluid-sensor PCB to protect the pump from being damaged.

One part of fluid hose is clamped in the PCB so that it senses the fluid flow. When there is liquid inside the hose, LED in the fluid-sensor PCB would not light up; when there isn't, LED turns on. (Note: If the machine does not work as above, please adjust the potentiometer. )

Activate Pump-protection function

There are two fluid-test PCBs to protect two pumps accordingly. If there is no fluid inside one pump, LED turns on and keep lighting up for 20S without off, then it means there is no fluid inside, at this time, another pump will start working. And the LED turns off. If the fluid in another tank is used up, LED will turn on again. At this time, the LCD display will flicker and show "NO Fluid"

How to release pump-protection status

Here are two cases:

2.1. Under LCD control. Keep pressing "MANUAL" button, at this time, pump works at the largest fluid flow. After about 20S, the LED in the fluid-sensor PCB will turn off. Machine exit pump protection. LCD display return to normal.

2.2. Under DMX signal control. Push the slider of haze output channel down to zero, then back to any values above 5. At this time, no matter which value it is, pump works at largest fluid flow to exit the pump protection. Please repeat the above action several times until the LED turns off.

Note: Machines will only enter into pump-protection mode if the "Fluid Sensor" under "FUNCTION" menu is on, otherwise, it would not work.

### ◆ LCD display function

Please take note: DMX signal has priority to this function. When DMX signal is connected, this controlling way is invalid.

Buttons:

Function: To be used to change menus

UP: Increase value

DOWN: Decrease value

TIMER: Activating timing mode

VOLUME: Activating continuous working mode

MANUAL: Manual control. Keep pressing, machine works at largest haze output and strongest wind.

Menus under Function:

① "Ready To Haze", first page: Machine can start creating haze.

Note: If the pump-protection function is on (Fluid sensor on), LCD shows "Ready to Haze S". If not, then shows "Ready to Haze"

② "Interval Set", second page: Set interval from 5~200s

③ "Duration Set", third page: Set duration from 1~200s

④ "Timer Out", fourth page: Set the haze output under timer mode, from 1%~100%

⑤ "Volume Out", fifth page: Set the haze output under continuous working mode, from 1%~100%

- ⑥ “Fan Speed”, seventh page: Set fan speed from 1%~100%
- ⑦ “Rotat. Speed”, eighth page: Set rotational speed of the rotating plate.  
Note: You can stop and fix the rotating plate to a certain angle by pressing “MANUAL” button. Also pressing “MANUAL” to make it rotate again.
- ① “DMX512 ADD”, ninth page: Set DMX Address value from 1~512.
- ② “Fluid Sensor”, tenth page: Set on/off of the pump-protection function.  
Pressing “UP” and “DOWN” to set the wanted value after entering into the relevant pages.

Pressing “TIMER” button to activate timing. LCD display will repeat pages according to the interval and duration being set.

For example:

“Interval 10s”: from 10 to 1

“Duration 10s”: from 10 to 1

Under timer mode, haze output depends on the value set under timer out.

Pressing “VOLUME” to activate continuous working mode:

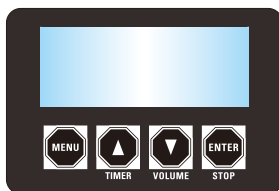
Machine will keep creating haze at the value set under volume out.

Pressing “MANUAL” to control the machine manually.

Keeping pressing the button, machine will create fog at largest output and largest wind.

Note: For H-4000S machine, press the button “MANUAL” when it is on page “Roata. Speed”. It will show “Stop Rotation”, and the fan stop running, then press the “MANUAL” again, it will run again.

### ◆ Instruction for LCD controller of H-4000S:



1. MENU (use for switch over the function page)
2. UP (TIMER)
3. DOWN (VOLUME)
4. ENTER (STOP)

Function page 1: Interval Set 10; to set the interval time between two burst.

Function page 2: Duration Set 10; to set the duration time of burst.

Function page 3: DMX 512 ADD 1; to set address code.

# H-4000S WAVE HAZE MACHINE

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Function page 4: Volume Out 100%; to set the output volume.

Function page 5: Fan speed 10; to set the wind strength.

Function page 6: Fan angle 10; to set the angle of fan.

Notes: It comes into act only under conditions of the function page 7 in a state of OFF.

Function page 7: Rotate speed OFF; to set the speed of sway of fan which will stop when it is in a state of "OFF"

## ◆ DMX control

Two channels.

1. Channel one: Fan speed (0-100 Small, 101-200 Medium, 201-255 Big).
2. Channel two: Haze output (0-10 off, 11-255 increase).

Note:

Under LCD control. Fan will work 3S in advance than the haze comes out.

Under DMX control, channel one only work if channel two works.

## ◆ Service and Maintenance

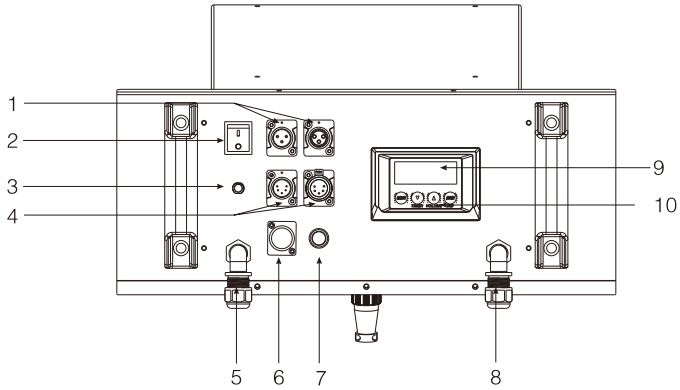
1. Please use DJPOWER fluid. It will prolong the lifetime of machines. To avoid danger, it is not allowed to take machine apart by unprofessional man. Neither to refit the machine.
2. Excessive dust, fluid residue and dirt will degrade performance and cause overheating. Remove dust from air vents with air compressor, vacuum or a soft brush. The casing could be cleaned by the damp cloth.
3. Before storing, run distilled water through the heating system to help avoid blocking the electric heating element.
4. It is recommended to run the machine on a monthly basis in order to achieve best performance and output condition.
5. All smoke machine will be blocked because of the inferior liquid or frequent use. Periodic maintenance is necessary for long term use. After 40 hours continuous working, please spray 10-15 times with the detergent composed of 35% vinegar and 65% distilled water.
6. Please properly operate the machine comply with user manual.

## ◆ Technical specification

|                         |                         |
|-------------------------|-------------------------|
| Model :                 | H-4000S                 |
| Voltage:                | AC 220 - 240 V 50/60 Hz |
| Fuse:                   | 15 A/250 V              |
| Power:                  | 3,000 W                 |
| Heat-up Time :          | 9 min                   |
| Output:                 | 55,000 cuft/min         |
| Fluid Consumption Rate: | 4 min/L                 |
| Max Output Distance:    | 10 m                    |
| DMX-512:                | ✓                       |

Tank Capacity : 5 L × 2  
N.W. : 73 kg  
G.W. : 77.5 kg  
Machine Size: 780 × 512 × 780 mm  
Package Size: 837 × 564 × 850 mm  
DMX Channel: 2

## Diagram



- 1. 3-pin DMX socket
- 2. Power switch
- 3. Breaker
- 4. 5-pin DMX socket
- 5. Fluid delivery pipe A
- 6. Power plug
- 7. Lighting for oil bottle
- 8. Fluid delivery pipe B
- 9. LCD display screen
- 10. Control panel

## ◆ Fog machine fluid blowout and heater blocking phenomenon analysis

**Please use the original consumables, protect your health and life of machine**

A.Fluid injection trouble: Refers to the fog fluid atomizing in the heater pipe of the machine is not good, heater temperature cannot be timely and effective transmit to the fog fluid, fog fluid cannot all atomization and lead to fluid injection

First reason: Using the low quality or counterfeit fog fluid, low quality fog fluid have more impurities, easy to adhere to the pipe wall and hindered temperature transmission result in incomplete atomization caused fluid injection.

Second reason: using an incorrect fog fluid. Different fog fluid have different required atomization temperature. If you use the wrong fog fluid result in fluid cannot fully atomization caused fluid injection.(fig 1)

B.Heater blocking trouble : poor atomization fluid injection is the early signs of heater block. Using poor quality fog fluid or not timely maintenance cleaning the fog machine for a long time. Inevitable will appear the terminal symptom of heater blocking.

Reason: heater blocked is because used inferior fog fluid or not maintenance for a long time. Have nothing to do with the quality of machine. Like a car with poor quality gasoline produce poor fluid circuit failure or long-time no maintenance the car will inevitably appear bigger problems. (fig 2)

C.Solutions to these problems: fog machine heating pipes used for a long time and then the pipe wall will easily produce sediments (The more inferior fog fluid the more impurities thus lead to fluid injection or blocked). All fog machines need regular maintenance (fog machine maintenance cycle for 1 to 2 months/time). Specific maintenance method: after heating the 35% white vinegar plus 65% distilled water and then spray 10 to 15 times

Conclusion: As long as the fog machine with fluid injection or heater blocking after using a period of time. It was caused by fog fluid quality or lack of maintenance, has nothing to do with the quality of the machine. Please use the original high quality fog fluid and timely maintain it, then it can be used for a long time.

