

H-IP3000 USER MANUAL

RAINFOOF DUAL NOZZLE FOG MACHINE

1 BEFORE YOU BEGIN

1.1 What Is Included




- H-IP3000 machine × 1
- Power Cord × 1
- Tank × 1
- Removable tank bracket×1
- 10m hose ×1
- Warranty Card × 1
- User Manual × 1

1.2 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.

If the box or the contents (the product and included accessories) appear damaged from shipping, or show signs of mishandling, notify the carrier or dealer/seller immediately. In addition, keep the box and contents for inspection.

1.3 Symbols

Symbol	Meaning
	Caution 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 Important installation or configuration information. Failure to comply with this information may keep the product from working correctly.
	Information Useful information.

1.4 Disclaimer

The information and specifications contained in this User Manual are subject to change without notice. DJPOWER assumes no responsibility or liability for any errors or omissions and reserves the right to revise or to create this manual at any time. Copyright © 2022 DJPOWER. All rights reserved.

1.5 Safety Notes

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

1.5.1 Personal Safety

- Always connect the product to a grounded circuit to avoid the risk of electrocution.
- During heating up and operation, the housing will be scalding hot. Do not touch.
- **The product is very hot during operation and it remains hot for a long time after operation has stopped. Do not touch the product's nozzle.**
- **Make sure that children, unauthorised people and animals do not obtain access to the machine.**

1.5.2 Mounting and Rigging

- This machine can be used indoors and outdoors, do not expose the product to rain or moisture. For long-term use outdoors, please take enhanced protection.
- CAUTION: When transferring product from extreme temperature environments, (e.g. cold truck to warm humid ballroom) condensation may form on the internal electronics of the product. To avoid causing a failure, allow product to fully acclimate to the surrounding environment before connecting it to power.
- Do not mount the product on a flammable surface (linoleum, carpet, wood, paper, carton, plastic, etc.).
- Do not use in a confined space. Always install the product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces.
- 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.
- Be sure that no ventilation slots on the products housing are blocked or clogged by dust. If necessary, remove the dust.
- The fluid is not drinkable. If you drink it by mistake, please seek medical attention immediately if you feel any discomfort. If you accidentally touch your eyes, please rinse with water

1.5.3 Power and Wiring

- Always make sure that the voltage of the outlet to which you are connecting the product is within the range stated on the decal or rear panel of the product.
- Make sure the power cord is not crimped or damaged.
- Never connect this product to a dimmer pack or rheostat.
- Never disconnect the product from power cord by pulling or tugging on the cord.
- 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.

1.5.4 Operation

- Do not operate this product if you see damage to the housing or cables. Have the damaged parts replaced by an authorized technician at once.
- Do not use the product as a space heater.
- Make sure there are no flammable materials close to this product while it is operating.
- The maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate the product at higher temperatures.
- **Do not cover the ventilation slots when operating to avoid internal overheating.**
- **Do not cover or plug the output nozzle during operation.**
- Wipe up spitted fluid immediately. Moisture – also fluid – can destroy the electric.
- Never carry the product by the power cord or any moving part. Always use the handles of the machine.
- **Drain the tank before transporting the product.**
- Always disconnect the product from the power source before cleaning.
- In the event of a serious operating problem, stop using the product immediately.

- This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained, certified technicians. Do not open the housing or attempt any repairs which can lead to damage or malfunction.
- **Please use the original DJPOWER PRO-V or PRO-A fog fluid**



Please save this manual for future use. When resell the machine, be sure to attach the instructions.

2 INTRODUCTION

2.1 Introduction

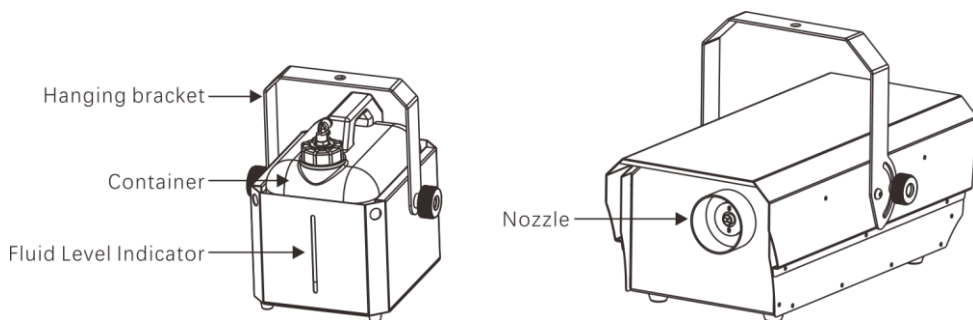
H-IP3000 is a new rainproof high-speed dual nozzle fog machine which launched by DJPOWER, with IP53 waterproof grade. It adopts stainless steel case, interior and exterior rain proof and moisture-proof structure design, comes with two nozzles, It can also show double fog output in the rainy environment, and easily create strong air waves and fog. H-IP3000 adopts the design of external oil bottle, which not only enhances the waterproof performance of the machine, but also makes it easier to refuel. It is suitable for outdoor performances, outdoor music festivals, cultural tourism projects and other activities.

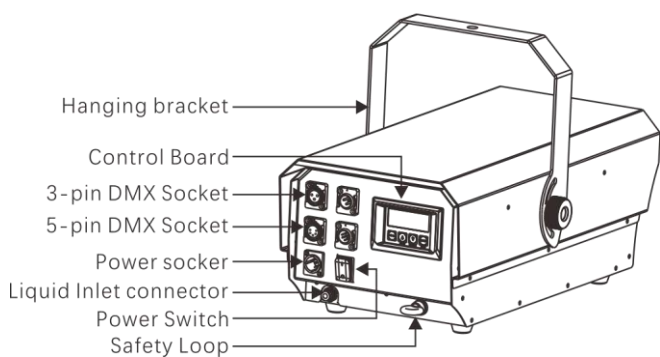
2.2 Features

- Stainless steel case, interior and exterior rain proof and moisture-proof structure design, IP53 waterproof grade;
- Dual nozzle fog output structure, double fog output and more stable performance;
- High quality heater can stably output dry and pure fog in outdoor environment;
- The design of the external oil bottle is equipped with two 10meters oil pipes for easy refueling;
- If you need to hang it, you can choose (pay extra) metal oil tank to meet the different needs of customer;
- Please use the original DJPOWER PRO-V or PRO-A fluid otherwise it might cause block and water squirting.

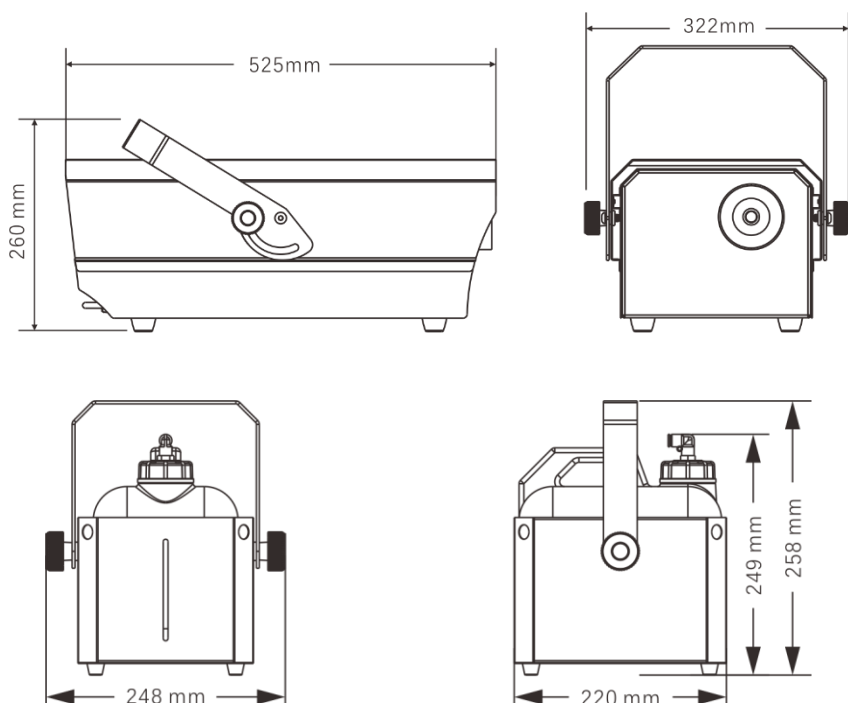
Note: The actual effect may be affected by the use environment.

2.3 Product Overview





2.4 Product Dimensions



3 TECHNICAL SPECIFICATIONS

Input Voltage & Rate		AC 100 V~120 V, 50/60 Hz	AC 220 V~240 V, 50/60 Hz
AC Power	Current Limiter Type	Breaker	Breaker
	Current Limiter Specifications	16 A/250 V	16 A/250 V
	Total Power Consumption	1,600 W	2,500 W

Heating	Heat Up Time	Appr. 9 min
Capacity	Fluid Tank Capacity	5 L
	Adjustable Output	√
	Max Output Volume	Appr. 60,000 cuft/min
	Max Output Height	Appr. 8 m
	Fluid Consumption (100% Output)	Appr. 4.8 min/L
Output	Maximum Continuous Duration (100% Output)	Appr. 45 S
	Continuous Output	×
	Cumulative Duration (Fully Loaded, 100% Output)	Appr. 24 min
	Horizontal	√
Placement & Mounting	Inclined	×
	Vertical	×
	Hang Upside Down	×
	Rigging & Trussing	√
	On-device Manual Control	LCD control board
Control	Wireless Control	×
	Wired Control	×
	Control Protocol	DMX-512
	DMX Channel Range	1
IP Rating	IP Rating	IP53
Consumable	Consumable	PRO-A or PRO-V
	Net Weight	23 kg
Weight & Dimensions	Gross Weight	25.8 kg
	Machine Dimensions	525 × 322 × 260 mm
	Packing Dimensions	848 × 400 × 350 mm

4 SETUP

4.1 AC Power

The machine has two kinds of voltage power supply, it can work with an input voltage of AC 100V-120V, 50/60Hz or AC 220V-240V, 50/60Hz, depending on the specific model.

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 (circuit breaker or fuse). Make sure the product has an appropriate electrical ground to avoid the risk of electrocution or fire.



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.

4.2 AC Plug

The H-IP3000 comes with a power input cord terminated with a Lockable Powercon connector on one end and an EU plug on the other end (EU & China market). If the power input cord that came with your product has no plug, or if you need to change the plug, use the table below to wire the new plug:

Connection	Wire (U.S.)	Wire (Europe)
AC Live	Black	Brown
AC Neutral	White	Blue
AC Ground	Green/Yellow	Green/Yellow

4.3 DMX Linking

You can link the machine to a DMX controller using a 3- or 5-pin DMX connection. If using other DMX-compatible products with this product, you can control each individually with a single DMX controller. Instructions for connecting and configuring this product for DMX operation are in the User Manual.

4.4 Mounting

Before mounting the product, read and follow the safety recommendations indicated in the Safety Notes.

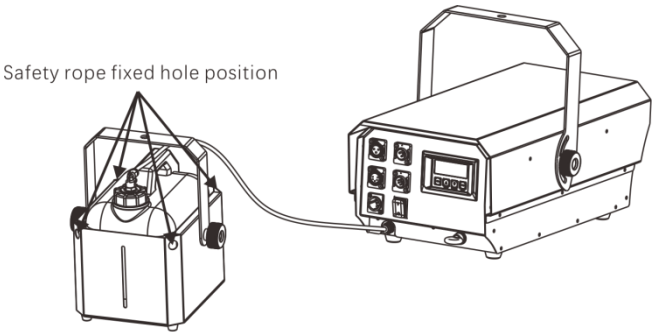
4.4.1 Orientation

For safety reasons, make sure the unit is well mounted through bracket and with safety cable. Also make sure there is adequate room for ventilation, configuration, and maintenance.

4.4.2 Rigging

DJPOWER recommends using the following general guidelines when mounting this product.

- Before deciding on a location for the product, make sure there is easy access to the product for maintenance and programming purposes.
- Make sure that the structure or surface onto which you are mounting the product can support the product's weight (see the Technical Specifications).
- When mounting the product on the floor, make sure that the product and cables are away from people and vehicles.
- Always use a safety cable to secure the machine to a fastening device when used suspended.



H-IP3000 Suspension installation diagram



The fluid tank and the machine should be placed on the same level, and the drop should not exceed 1 meter

5 OPERATION

5.1 Preparing for Operation

To prepare the H-IP3000 for operation, perform the following steps.

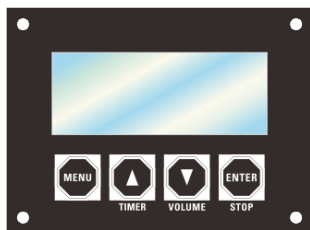
- After checking that all the parts are intact and complete, position the machine on flat.
- Take out the fluid tank from the metal fluid tank box and unscrew the tank cap, carefully inject PRO-V fog fluid, cover and tighten the cap, and put the fluid tank into the metal fluid tank box. Damage caused by using other liquids is not covered by the warranty.
- Insert the card mark of the power connector into the correct contact firmly, confirm the power specification, and plug the power cord into a grounded socket
- Make sure the plastic hose entering the H-IP3000 from the fluid tank cap is not bent or kinked.
- Verify that the plastic hoses attached to the cap are in place and in good condition without bending or warp.
- Always connect the product to a grounded circuit. Before power on, make sure it is connected with the rated voltage.
- Turn on the machine, and "Warming up" shows on the display during the heating-up process.
- The display changes to "Ready to work" when the machine finishes heating.

5.2 On-device Control Panel

This LCD is optional in Chinese and English, which is convenient for customers to operate

The condition to meet this method is: disconnect the DMX signal (when the DMX signal is connected, this control method is invalid)

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



Button	Function
<MENU>	Switch menu pages to select a function
<▲>	Increases the numeric value of current function Triggers TIMER output mode
<▼>	Decreases the numeric value of current function Triggers VOLUME output mode.
<ENTER>	Save current setting and return to standby page. STOP output


5.3 On-device Control Mode & Operation

5.3.1 Programming

- Refer to the Menu Map to understand the menu options. The menu map shows the main level and a variable number of programming levels for each option.

- To go to the desired main level, press repeatedly until the option shows on the display. This will take you to the first programming level for that option.
- To select an option or value within the current programming level, press "▲" or "▼" until the option shows on the display. If there is another programming level, you will see that first option, or you will see the selected value.
- Press <MENU> repeatedly to switch menu pages.
- Press <ENTER>/<STOP> to go back to Standby Page at any time.

5.3.2 Menu Map

	Display	Description	Parameter Range
Preparing Pages	<div> <div>Heating Up</div> <div>>>>>></div> </div>	The machine is heating up	
Standby Page	<div> <div>Ready to Fog</div> <div>H-IP3000</div> </div>	Finished heating up, ready to work.	
	<p>The unit heats automatically by default, it starts heating as soon as the unit is powered on and the power button is turned on. If the heater temperature does not reach the set temperature, the display will show "Heating", and when it reaches the set temperature, it will show "Ready", indicating that the equipment has been preheated and ready to work</p>		
Settings Page	<div> <div>Interval Set</div> <div>115S</div> </div>	Press "▲" or "▼" to Set the interval time in the regular working mode Press <ENTER>/<STOP> to Stop output and return to standby page from any page	1~200s
	<div> <div>Duration Set</div> <div>6S</div> </div>	Press "▲" or "▼" to set the duration in timing working mode Press <ENTER>/<STOP> to Stop output and return to standby page from any page	1~200s
	<div> <div>Timing state smoke output</div> <div>1%</div> </div>	Press "▲"/<TIMER> to start outputting fog Press "▲" or "▼" to set the amount of fog output in the timing state	1-100%
	<div> <div>Fog Output</div> <div>1%</div> </div>	Press "▲"/< VOLUME > to start outputting fog Press "▲" or "▼" to set fog output of volumn Press <ENTER>/<STOP> to stop output and return to standby page from any page	1-100%
	<div> <div>DMX512 Address</div> <div>2</div> </div>	Press "▲" or "▼" to set DMX starting address	1-512
	<div> <div>Fluid Sensor</div> <div>ON</div> </div>	Fluid Sensor	ON/OFF

Auto Run Last Settings ON	Press "▲" or "▼" to set the machine to start or stop running in the previous working mode when it is powered on again	ON/OFF
Language English	Press "▲" or "▼" to set Language, and save it by pressing ENTER	Chinese/English

On any page, press the "STOP" button to exit/return to the standby page.

In the working state, press the "STOP" button to stop working and return to the standby page

After entering the relevant page, press "▲" and "▼" to change the current setting.

On the first page, press the "TIMER" button to enter the timer function, and the related pages are as follows

- ① "Interval 10s": interval timer
- ② "Duration 10s": duration timer

The above pages will be displayed cyclically, and the time (for example, 10s) is subject to the currently set value (the settings of the 1st and 2nd pages).

In the timing state, the amount of fog is controlled by "Timer Out".

On the first page, press the "VOLUME" button to be effective, then enter the working state, the relevant instructions are as follows

After entering this working state, the amount of fog is subject to the value set in "Volume Out"

5.4 DMX Mode & Operation

The Machine H-IP3000 works with a DMX controller.

- Connect the product to a suitable power outlet.
- Turn the product on.
- Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product.

When connected with DMX controller and receiving DMX signal, the LCD display will always show current DMX starting address which can be reset by pressing "▲" or "▼".

5.4.1 DMX Mode Menu Map

While connect to DMX signal, the display will show DMX starting address, and you can press "▲" or "▼" to set DMX starting address

DMX512 Address	1
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5.4.2 DMX Channel Assignments and Values

Channel	Function	Value	Description
1	Control the amount of fog	0-5	OFF
		6-255	Getting bigger

5.5 Fluid Sensor

This machine uses software-based fluid sensor to detect whether there is fluid inside tube so as to protect the pump from being damaged. Turn on the "Fluid Sensor" to activate "No Fluid Protection" function.

5.6 Trigger "No-Fluid Protection"

When the Fluid Sensor is ON, the software-based "no-fluid protection" function will be activated. After the program continues to detect the machine working with no fluid inside the tube for 1 minute, the pump-shutoff will be activated with the flickering warning page showing on the screen.

5.7 Clear "No-Fluid Protection" Warning

When the machine is under the no-fluid protection, after refilling the fluid, there are three ways to clear the warning.

- Press and hold ENTER until the fluid is pumped and fill the tube.
- Under the DMX control mode, bring down channel 1 to OFF (value 0-5), then up to ON (value 6-255),
- Turn off "Fluid Sensor" in the menu.

6 TECHNICAL INFORMATION

6.1 Machine cleaning and maintenance

H-IP3000 requires regular cleaning and maintenance to achieve the best status, and some cleaning and maintenance steps are essential. Here are the recommended cleaning steps:

1. Please use DJPOWER original consumables to prolong the service life of the machine. Do not let non-professionals disassemble the machine, let alone refit the machine, to avoid danger
2. Excessive dust, fluid residue and dirt will degrade performance and cause overheating. Remove dust from air vents with air compressor, vacuum or soft brush. The casing could be cleaned by the damp cloth.
3. Before storing the machine, please pour distilled water into the fluid tank and run the machine to clean the heating system to avoid the heating pipe block.
4. All fog machines may be clogged due to dirty fluid filter or long-term frequent use, so regular maintenance can last longer. After the fog machines has been used continuously for 40 hours, spray it 10-15 times with 35% white vinegar and 65% distilled water after heating.
5. Please follow the manual of your fog machine, snow machine and bubble machine to do proper operation.



Test-run your DJPOWER ® H-IP3000 on a monthly basis to achieve the best performance.

6.2 Machine Storage

Before storing the machine, please clean and maintain the machine, empty the fluid tank, and keep the storage environment dry

