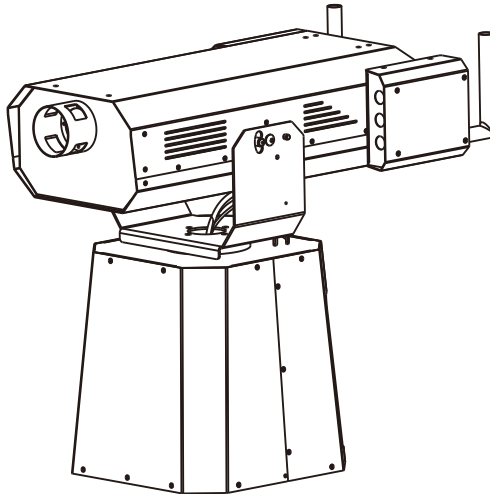




[PRO STAGE EFFECTS]



DSG-3000 *USER MANUAL*

SWING FOG MACHINE

GUANGZHOU DJPOWER ELECTRONIC TECHNOLOGY CO.,LTD

1 BEFORE YOU BEGIN

1.1 What Is Included




- DSG-3000 Swing Head × 1
- Power Cord × 1
- User Manual × 1
- DSG-3000 Bottom Base × 1
- Warranty Card × 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.

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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

- Please keep machine dry, if the machine gets wet, wipe it with a dry cloth.
- Do not aim at people when the machine is working, and keep a distance of at least 4 meters from people.
- 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.
- 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 Swing 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 professional quick dissipation fog fluid.**



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

2 INTRODUCTION

2.1 Introduction

DSG-3000 is a new dual nozzle swing fog machine launched by DJPOWER. With the help of super jet patented technology, it can instantly create a strong column of fog. The output distance can reach about 10 meters. The angle can be adjusted arbitrarily at 120 degrees. The design of the hand-held handle at the rear of the machine allows the fog output angle to swing as desired.

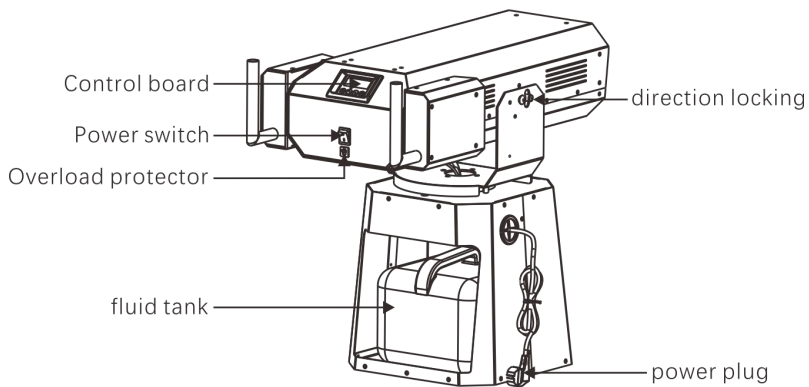
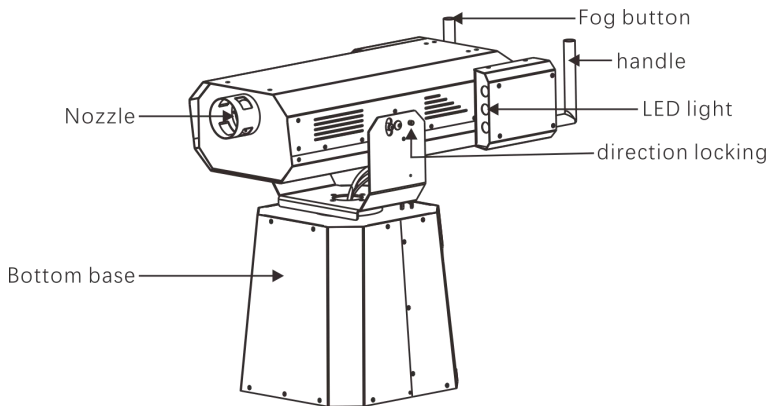
2.2 Features

- Dual nozzle, strong and huge output
- Patent "Super-Jet", the speed of fog output reaction quickly
- The smoke output angle can be adjusted arbitrarily at 120 degrees in one plane
- Excellent solenoid valve and anti-interference circuit design, no-fluid protection, stable and reliable;
- The rear handhold design, fog angle swing freely
- Please use the original DJPOWER PRO-V professional quick dissipation fog fluid otherwise it might cause block and water squirting.

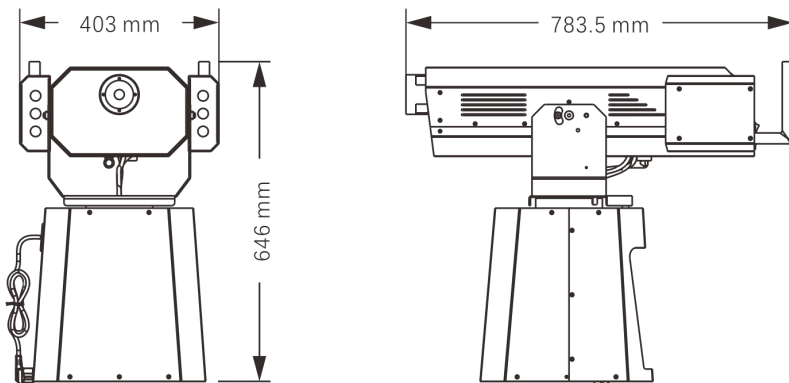
Use only DJPOWER professional quick dissipation fog fluid PRO-V, otherwise the machine will spray water or block! Pro-V can help create white thick smoke which completely dissipate in a few seconds. It is very suitable for fog jet effect, and this liquid is specially prepared, with very good light transmission, and the colored smoke column will be brighter.

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 220 V~240 V, 50/60 Hz
AC Power	Current Limiter Type	Breaker
	Current Limiter Specifications	15 A/250 V
	Total Power Consumption	2,500 W
Heating	Heat Up Time	Appr. 9 min
LED	LED Power	3W × 6
	LED Color	Red
Capacity	Fluid Tank Capacity	9L
Output	Max Output Distance	Appr. 10 m
	Fluid Consumption (100% Output)	Appr. 2.6 min/L
	Maximum Continuous Duration (100% Output)	Appr. 10 s
Placement & Mounting	Horizontal	√
	Inclined	×
	Vertical	×
	Hang Upside Down	×
	Rigging & Trussing	×
Control	On-device Manual Control	LCD control board
	Wireless Control	×
	Wired Control	×
	Control Protocol	optional
	DMX Channel Range	1 or 2
Consumable	Consumable	PRO-V
Weight & Dimensions	Net Weight	36.1 kg
	Gross Weight	40 kg
	Machine Dimensions	783.5 × 403 × 646 mm
	Packing Dimensions	876 × 509 × 286 mm (Swing head)
		456 × 456 × 651mm (bottom base)

4 SETUP

4.1 AC Power

The machine has two kinds of voltage power supply, it can work with an input voltage of AC 220 V-240 V, 50/60 Hz, 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.



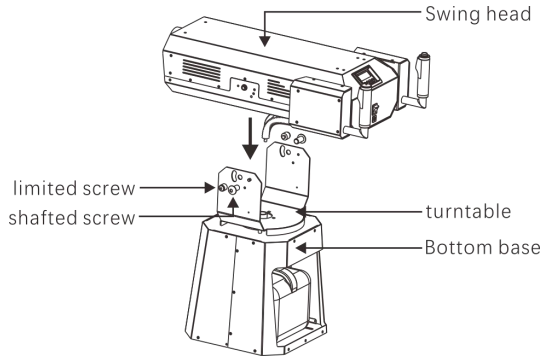
Never connect the product to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel serves only as a 0 to 100% switch.

4.2 Mounting

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

The DSG-3000 Swing head and base are packaged separately and unpacked them. Head and base need to be connected and installed before the machine can be operated.

- Align the swing head rotating shaft with the turntable rotating shaft hole from top to bottom and snap it in.
- Lock the rotating shaft screws on the left and right sides of the turntable to prevent the Swing head from falling off.
- Put the buffer rubber into the limit screw and lock it into the limit hole. (Limit up and down Swing angle).



4.2.1 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.

4.2.2 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.

5 OPERATION

5.1 Preparing for Operation

To prepare the DSG-3000 for operation, perform the following steps.

- After checking that all the parts are intact and complete, position the machine on flat.

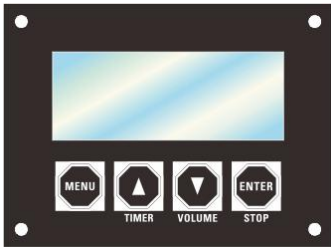
- Press the oil tank's quick connector by thumb and forefinger, and take it out quickly to disconnect the tube and the oil tank. Take out the tank and uncover the cap. Pour the liquid PRO-V into the tank carefully, then tighten the cap. Put the tank into the machine and push the connector lightly to connect the tube and oil tank.
- 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
Welcome Pages	DJPOWER Version 1	Software version	

	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> Initializing... DSG-3000 </div>	Initializing
Preparing Pages	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> Heating Up >>>>> </div>	The machine is heating up.
Standby Page	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> Ready to Fog DSG-3000 </div>	Finished heating up, ready to work.



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

Settings Page	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> Interval Set 115s </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	1~600
	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> Duration Set 5s </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	1~10
	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> LED SET Manual Output ON </div>	Press "▲" and "▼" to set the output LED color. After setting it on, the LED light will light up when the machine is in manual operation or controlled by DMX. Otherwise it won't light up	ON/OFF
	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> Fluid Sensor ON </div>	Press "▲" or "▼" to turn ON/OFF fluid sensor	ON/OFF
	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> DMX512 Address 2 </div>	Press "▲" or "▼" to set DMX starting address	1-512
	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> DMX Address 1 Channel </div>	Press "▲" or "▼" to select DMX starting address 1 and 2 Channel optional	1 or 2
	<div style="border: 1px solid black; padding: 2px; display: inline-block;"> Language English </div>	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.

5.4 Manual Operation

5.4.1 The handle button controls the smoke work

- DSG-3000 handle controlled smoke output: After the machine is heated, on the display page "Ready to fog", press the handle button to start fog output; release the handle button to stop fog.

- The machine can be manually operated through the multiplex keys "TIMER", "VOLUME" and "STOP"
- After the machine is heated, on the display page "ready to fog", press the multiplex button "VOLUME" and the machine will start fog output; press the multiplex button "STOP" and the machine will stop fog .



Note: The overlay keys only work under the "Preparation" display page. On other pages, the overlay keys do not work and change to regular key functions.

5.5 DMX Mode & Operation (Optional function, the machine does not have DMX control by default)

The Machine DSG-3000 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 "▼".

5.5.1 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

5.5.2 DMX Channel Assignments and Values

The machine has two channel control modes, namely channel 1 mode and channel 2 mode. They can be set in the menu page options.

5.5.3 1 DMX Channel

Channel	Function	Value	Description
1	Fog	0-9	OFF
		10-255	ON

5.5.4 2 DMX Channel

Channel	Function	Value	Description
1	Fog	0-9	OFF
		10-255	ON
2	Safety master control	0-49	OFF
		201-255	OFF
		50-200	ON (After the safety master control is activated, the functions of channels 1 can be controlled normally.)

6 TECHNICAL INFORMATION

6.1 Machine cleaning and maintenance

DSG-3000 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 ® DSG-3000 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

