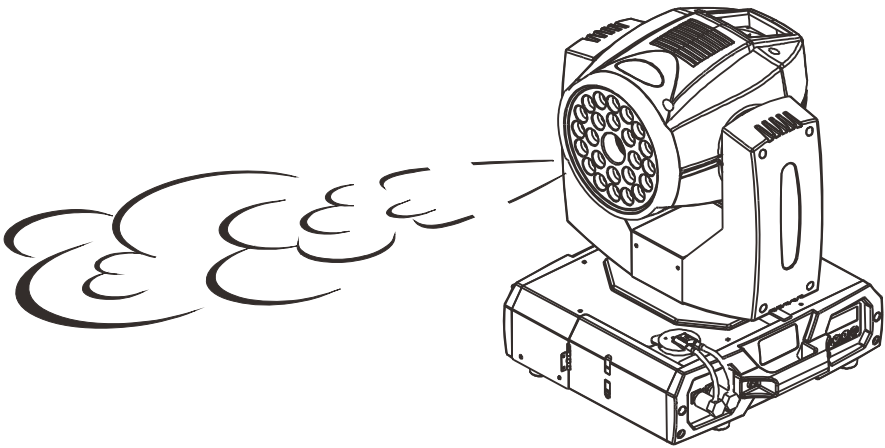




[PRO STAGE EFFECTS]



H-1S

LED MOVING HEAD FOG MACHINE
USER MANUAL

H-1S LED MOVING HEAD FOG MACHINE

◆ Foreword

Thank you very much of choosing DJPOWER H-1S LED Moving Head Fog Machine .

Before start operating,we strongly suggest you to read the user manual carefully. Following the instructions here will ensure your safety while operating the machine,easily achieve the best effect,as well as understand the right way to care for and maintain the machine,hence to prolong the product life cycle.

◆ Introduction

Upgraded version of H-1S moving head fog machine, with optional small controller box, it features 24 pcs of 5W RGBA LED lights, rapid movement, various color changes, strobe, sound activated model, adjustable fog output, Immediate-Stop and Anti- Squirting Plus technology. The yoke has a 540 degree pan and the head has a 270 degree tilt. Since the size of heater bigger than the predecessor, the fog output stronger. LED lights increase 50% brightness, which can work individually or together with fog. Super strong fog output is sensational. Intensive multi-color LED lights are dazzling. Rotating moving head is thrilling. It delivers all three. With newest “Anti-Squirting Plus” technology, it is safer no matter hung or placed on the floor. It is suitable for high-end bars and stages.

◆ Features

1. All in one: Fog/LED Lights/Moveable Head;
2. 24 pcs of 5W RGBA LED lights, various color changes and strobe; the bright increases 50% more than the predecessor;
3. Rapid Movement, Full 540° pan rotation in approximately 2 seconds, complete 270° tilt range in about ¾ second;
4. Adjustable fog output, fog output continues from 8 seconds to 15 seconds by using a larger heater;
5. Upgraded structure, using metal quick connector, more safer and convenient;
6. “Immediate-Stop” and Anti-Squirting Plus patented technology;
7. Advanced NO-Fluid protection
8. Unique Temperature Control System;
9. Anti-loose power plug; 10. Quick Connector;
10. Built-in LCD control, wireless control, and 3pin, 5pin DMX control;
11. Hung or Placed on floor;
12. Please use DJPOWER professional fog fluid PRO-A or PRO-V;

H-1S LED MOVING HEAD FOG MACHINE

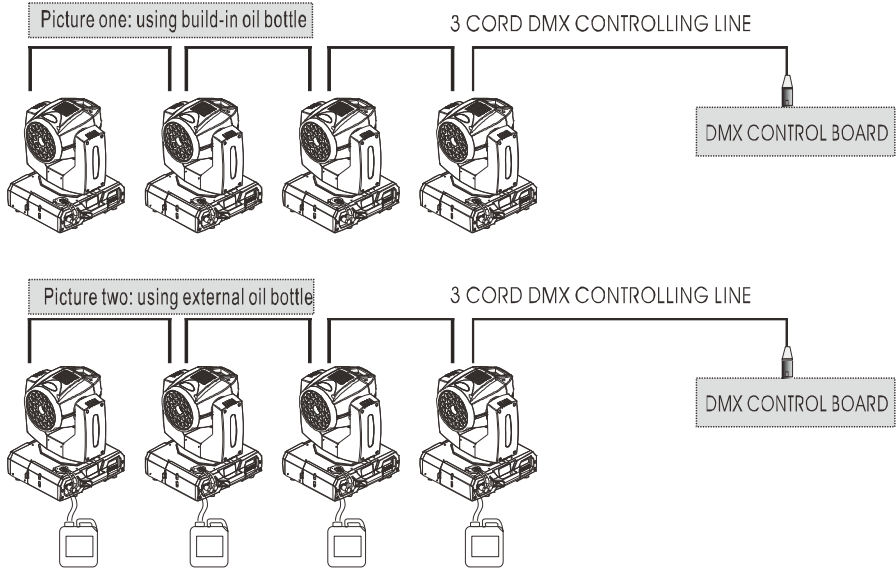
In addition, the moving head fog machine is equipped with a new and small controller box, which can be bought separately. The controller box enables the machine work automatically without DMX console! Such as when four machines daisy chained, the machines can work the programs you choose from the control box automatically.

◆ Safety use

1. Keep the fixture dry. For indoor and outdoor used.
2. Use grounded electrical outlet. Prior to use, make sure that unit is installed at the rated voltage.
3. Turn off or unplug when not using it.
4. This machine is not water-proof. Please keep it away from moisture and water. If moisture, water, or fluid gets inside the housing, stop using it.
5. No user serviceable and modifiable parts inside. Do not disassemble the housing and do any modification, otherwise it might cause damage to the unit or danger of burning.
6. For adult use only. Fixture must be installed out of the reach of children. Never leave the unit running unattended. Keep it away from fire, combustible and flammable materials.
7. Position the machine in well-ventilated area. Please leave about 50cm spaces surrounding the unit.
8. Please do not use the fixture under high temperature.
9. Never add flammable liquids of any kind (fluid, gas, perfume) to the fog liquid.
10. If something wrong happen while using, please stop the fixture immediately, cut off the power, and check the fog fluid amount, fuse, power cable and power plug. If problem could not be resolved, please contact with your dealer.
11. Use only DJPOWER high-quality PRO-A or PRO-V fog fluid.
12. Never drink fluid. If it is ingested, call a doctor immediately for any discomfort. If fluid comes in contact with skin or eyes, rinse thoroughly with water.

◆ Operating Instruction

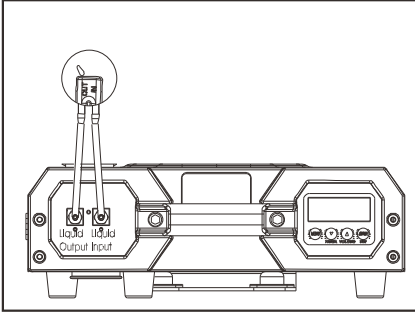
H-1S LED MOVING HEAD FOG MACHINE



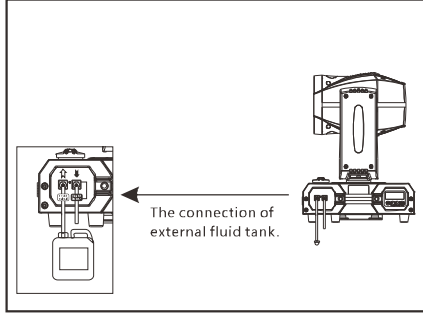
1. Connect the DMX controlling line, open the base of the fixture, and remove the fluid tank to add fluid, carefully not to exceed the mark on the tank to prevent fluid from spilling out, and then press the cap down and check tightly, finally place the fluid tank back carefully and cover it.
2. If you need to use fixture upside down, just put machine upside down and remove the tank, put the tank upside down and then re-inserted into the base.
3. Plug in the power cord, turn on the power switch, then fluid bottles displaying in red is in heating, set address code, waiting for about seven minutes, when the machine is well heated, fluid bottles will be displayed in blue, the LCD display can also be observed to understand the heating state of the machine.
4. Promote push rod of the console, the machine will begin to spray, the pump may emit shaking sound in the first fog slowly, which is a normal phenomenon.
5. Different ways of using several pieces together: Picture one: using build-in fluid bottle; Picture two: connect the machine with any outside fluid bottle, no need to fill the fluid in the height, suitable for being used in the high place and long-term using.

H-1S LED MOVING HEAD FOG MACHINE

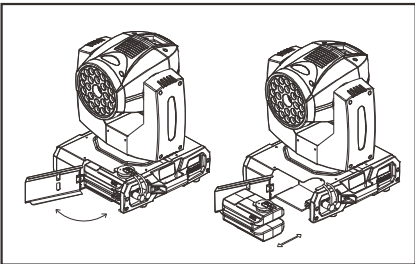
Tubeing connection diagram



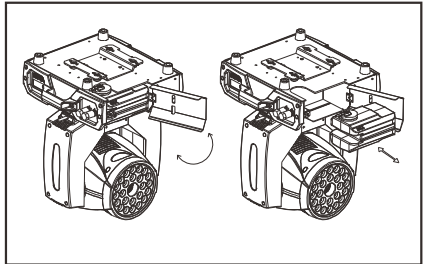
The connection of external fluid tank



The diagram of removing the oil bottle-A



The diagram of removing the oil bottle-B



Adding fluid must be careful to prevent fluid from inflowing the machine.
The fluid should be poured out and keep the oil bottle dry when the machine in shipment.



◆ Unpack and inspect the machine

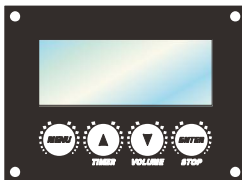
Once receiving the machine, carefully unpack the carton, check all content to ensure that all parts are present and have been received in good condition. If any parts appear damaged or mishandled from shipping, please do not power on the machine. Contact with the dealer immediately.

◆ The following parts should be included when you receive the package:

1. One H-1S LED moving head fog machine
2. One W-4 remote
3. One power cord
4. One user manual

◆ Buttons Menu Instruction

H-1S LED MOVING HEAD FOG MACHINE



- “MENU” : Menu pages choose;
“UP” : Increase;
“DOWN” : Decrease, also “VOLUME” button for fog output;
“ENTER” : In/out, also for “stop” button.

◆ **Press the “Menu” button to switch the display page, a total of 6 pages, as follows:**

1. First page.
English display: “Ready To Fog”
The content displaying on the screen means the machine can start to work
Note: English display or Chinese display is set by the menu language selection page.
2. The second page.
English display: “DMX512 Address.”
This page Displays Settings page for the DMX address by “UP” and “DOWN” button to set the DMX address code, ranging from 1 to 512;
3. The third page.
English display: “Wireless Set”
Chinese display: “Wireless remote control function.”
This page displays settings for the wireless control function, in this page by pressing the “UP” or “DOWN” button to set ON or OFF (open or closed wireless control function);
4. The fourth page.
English display: “Language.”
This page is displayed language selection by pressing the “UP” or “DOWN” button to select the Chinese or English and press ENTER to save.
5. The fifth page
English display: “Pan Inverse”
Chinese display: “horizontally inverted select”
This page is set horizontal selection by pressing the “UP” or “DOWN” button to select the setting.
6. The sixth page
English display: “Tilt Inverse”
This page is set vertical selection by pressing the “UP” or “DOWN” button to select the setting.

◆ Manual control function

By the “TIMER”, “VOLUME” and “STOP” button to manually operate the machine spraying work. When the machine is heated well, the “Ready To Fog” is in the display page, press the button “VOLUME”, the machine will begin to work; press the button “STOP”, the machine will stop work.

Note: Only the page displays “Ready To Fog”, the button will work. Otherwise, buttons do not work, and turn into conventional functions.

◆ Wireless control function

ON Spray, OFF Stop



1. Identify the wireless transmitter

When the machine is powered and the remote control function settings page was set ON in last use, the LCD controller will display “Wireless Set up”, then the wireless transmitter can be identified in this state. When you press the button on the wireless transmitter (need to stay at least 1 second), if the LCD controller back light flashes twice, then explained that it had identified a wireless transmitter. A machine can only identify 5 transmitter, if the five have been identified to a wireless transmitter, and when identify the six, the initial identification should be cleared.

If the wireless controller has identified 5 wireless transmitter in last power, the identified previously transmitters will be cleared, if at least one wireless transmitter is identified when powered again.

For example:

① A machine needs to identify 3 wireless transmitters. “Wireless Setup” displays on the LCD screen within 15 seconds, please press any button of 3 wireless transmitters respectively. When the LCD back light flashes twice, it identify a wireless transmitter, if the back light does not flash, you will need to re-identify.

② A wireless transmitter to control two or more machines. Two machines should be powered simultaneously, when “Wireless Setup” displays on the LCD screen of the two machines, press any button of wireless transmitter, when LCD back light of the two machines flashes twice, then release button.

2. Machine works under wireless control

After the machine finished heating, press any key of wireless transmitter, machines can start to work, release the button, the machine stopped will stop work.

H-1S LED MOVING HEAD FOG MACHINE

Note:

① If the wireless control function is set off ("Wireless Set OFF" on the LCD screen), when powered again, it will not display "Wireless Setup" page.

② When the machine identifies a wireless transmitter, you must wait until the back light of LCD screen flashes twice, then release the button, because only in this state, it recognizes the wireless transmitter.

◆ DMX control

After the machine connect the DMX signal, the LCD screen can only display DMX-512 address settings page, you can modify DMX-512 address codes by pressing the "UP" or "DOWN" button at this time. DMX control channels as follows:

◆ DMX channel

Channel 1: Fog (0-9 OFF, 10-255 ON, the output volume of fog gradually become larger)

Channel 2: Red (0-9 OFF, 10-255 ON, red become lighter)

Channel 3: Green (0-9 OFF, 10-255 ON, green become lighter)

Channel 4: Blue (0-9 OFF, 10-255 ON, blue become lighter)

Channel 5: Yellow (0-9 OFF, 10-255 ON, yellow become lighter)

Channel 6: Color mixing (0-9 OFF, 10-255 ON, color mixing)

Channel 7: Strobe (0-9 OFF, 10-255 ON, LED strobe become faster)

Channel 8: Dimmer (0-9 OFF, 10-255 ON, LED dimmer become lighter)

Channel 9: X-axis control (0-255 corresponds to 0-540 degree)

Channel 10: Y-axis control (0-255 corresponds to 0-270 degree)

◆ Routine maintenance and solutions to faults

1. Can not pollute the fluid in order to keep the fluid clean, the cap should be tighten immediately after adding fluid , and regularly clean the filter inside of the oil bottle .
2. After 40 hours of continuous use, please use 80% distilled water and 20% white vinegar mixed into a detergent to clean the impurities inside the heater.
3. Unscrew the fluid cap, remove the suction pipe, and plug in the power, making it spray continuously 3-4 times in the open area, and then put suction pipe back into the fluid bottle to spray once again until the smoke can be normal.
4. All moving head machines are likely to be blocked, due to frequent fluid filter unclean or long-term use, so regular maintenance can be more long-term use. When you hear the vibration of the pump more than two minutes but no smoke out, the reasons should be as following:
 - ① failure to timely add fluid to make pump cause long-term work load, or due to voltage big fluctuations lead to stuck or damaged pump.
 - ② generally as long as you can remove the pump, it can work, or just replace the fragile mushroom-shaped rubber can solve the problem without having to replace the entire pump, refer to the diagrams, if found coil burnt please contact your dealer.

◆ 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.

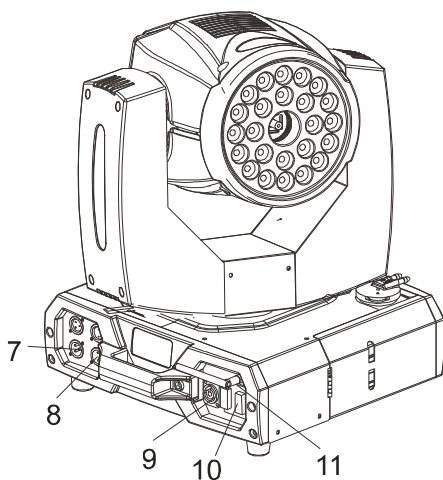
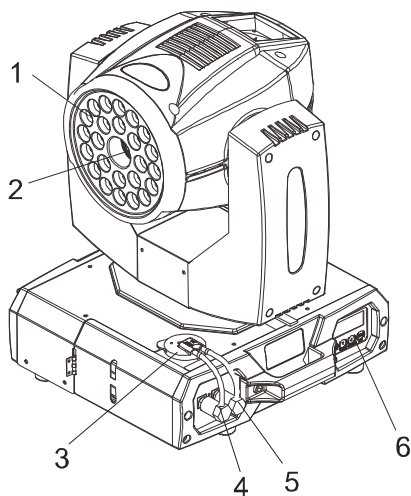
◆ Technical parameters

| | |
|---------------------------------|---|
| Voltage: | AC 100 V-120 V ; 50/60 Hz AC 220 V-240 V ; 50/60 Hz |
| Breaker: | 15 A/250 V (100 V - 120 V) 8 A/250 V (220 V - 240 V) |
| Power: | 1,500 W |
| LED Power: | 5 W × 24 pcs |
| LED Color: | RGBA |
| Heat-up Time: | 4.5 min |
| Max Continuous Output Duration: | 15 s |
| Output: | 20,000 cuft/min |
| Fluid Consumption Rate: | 10 min/L |
| Max Output Distance: | 6 m-8 m |
| Wireless Remote Controller: | W-4 |
| DMX-512: | √ |
| Tank Capacity: | 1.3 L |
| N.W.: | 19 kg |
| G.W.: | 22 kg |
| Machine Size: | 403 × 355 × 477 mm |
| Package Size: | 455 × 415 × 555 mm |
| DMX Channel: | 10 |
| Consumables: | PRO-V or PRO-A |
| International Patent: | Immediate-stop |

◆ Graphic Illustration

H-1S LED MOVING HEAD FOG MACHINE

1. LED light
2. Spraying nozzle
3. Fluid tank
4. Fluid inlet fitting
5. Fluid return fitting
6. LCD screen
7. 3-pin DMX
8. 5-pin DMX
9. Power outlet
10. Power switch
11. Antenna



◆ Fog machine fluid blowout and heater blocking phenomenon analysis

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

H-1S LED MOVING HEAD FOG 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.

