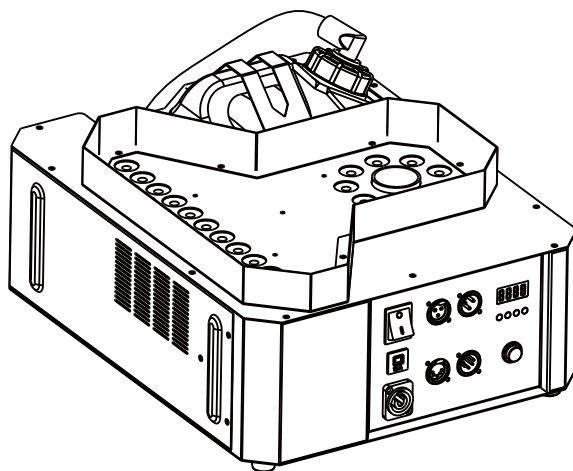




[PRO STAGE EFFECTS]



DSK-1500VS USER MANUAL
LED Vertical Fog Machine

● Foreword

Thank you very much of choosing DJPOWER DSK-1500VS LED Vertical 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

As global-first updated vertical fog machine, DSK-1500VS produces brighter and higher fog jet. New added creative patented technology enables independent color changes for flame core, which shows the amazing two color jet! 32pcs RGB 3W LEDs allow optional color changes, suitable for indoor and outdoor. It can be placed flatwise or on its side, hung on the wall or on the bracket. Powerful vertical fog can reach 6~8 meters high. More importantly, it allows simultaneous fog output and stop via DJPOWER's unique "immediate-stop" patented technology.

● Features

1. New "Inner Flame Color Changing" technology shows amazing two colors of jet!
2. 32pcs 3W RGB LEDs produces colorful fog effect;
3. Various placing ways, can be placed horizontally or on its side, or hung up-side-down.
4. "Immediate-Stop" patented technology;
5. Advanced "Anti-Squirting Plus" technology, greatly reduced the probability of squirting water;
6. Advanced No-Fluid protection;
7. Anti-loose power plug;
8. Unique Temperature Control System;
9. Heating system adopts MIRROR patented technology (MIRRIOR Pipe) to prevent being clogged;
10. Output button for standby application;
11. Digital display control, Wireless control, and 3pin, 5pin DMX control
12. Please use DJPOWER professional thin fog fluid PRO-V.

● 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(oil, 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 liquid amount, fuse, power cable and power plug. If problem could not be resolved, please contact with your dealer.
11. Please use DJPOWER professional quick dissipating fluid PRO-V, other consumables might cause fluid splash or clogging!
12. Never drink liquid. If it is ingested, call a doctor immediately for any discomfort. If liquid comes in contact with skin or eyes, rinse thoroughly with water.

●Opening the package and inspecting the machine

Please make sure the machine is in good condition after opening the package. If there is any damage, please contact with your dealer directly and do not power on the machine

●The following parts should be included when you receive the package

1. One DSK-1500VS machine
2. One W-5 Wireless Remote Controller
3. One power cord
4. One user manual

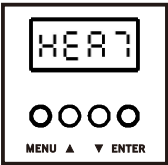
●Operating Instruction

1. After checking that all the parts are intact and complete, position the machine on flat.
2. Pour PRO-V fog liquid into the oil tank carefully and screw the cap. Please use the fog liquid designated by DJPOWER, otherwise it might do harm to the machine itself, also void the warranty.
3. Connecting the power cord. Before power on, make sure it is connected with the rated voltage.

4. Turn on the machine, it will immediately start heating up, the digital display will show “HEAT”.

It takes about 4 minutes for DSK-1500VS to heat up completely. The digital display will change to “ADDR” when it is ready. Press the on board fog button on the machine’s rear panel or the any button on the remote to create fog.

● **Instruction to digital display**

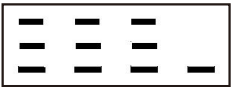


- 1. MENU button: Press Menu button to change function pages. There are 7 in total, which show detail in below.
- 2. Up button: Increase the relevant value of each page
- 3. Down button: Decrease the relevant value of each page
- 4. Enter button: Enter or exit each page

The seven pages are as below:

Pages	Setting Instruction
ADDR	DMX setting and Ready to work
CH-1	LED Color setting of A button in wireless controller
CH-2	LED Color setting of B button in wireless controller
CH-3	LED Color setting of C button in wireless controller
CH-4	LED Color setting of D button in wireless controller
OIL	Fluid Sensor
REMO	Wireless remote controller ON or OFF

● **How to register the wireless remote**



When the wireless control function is activated, digital display will show as the above picture once the machine is powered on. The line will increase gradually, and the digital display will exit this page till the line is full (12 lines). It takes 12 seconds to fulfill this. During this time, press any button on the remote, the digital

display will flash twice, this means that the wireless remote matches with fog machine successfully. Users can control the machine by the wireless remote. Remark: There would be no response for rematch.

One machine can match with five different frequency controllers at most(The process should be finished within 12s). If the machine has matched with a controller last time, then in next time's use, if user does not register it with another new remote, it will recognize last time's remote. While if the machine has matched with three controllers last time, and user matches it with another new remote in next time's use, it would only recognize the new remote rather than the old three.

● How to use the operate the digital display

Press MENU button to navigate different setting pages.

1. DMX address setting page.



When it shows ADDR, press ENTER button to enter into the setting page of DMX address. Press UP or DOWN to increase or decrease the address value. After finished setting, press ENTER button again to back to page ADDR.

2. LED color setting page



Digital display shows ADDR, press MENU to CH-1 LED color setting page. When it shows CH-1, press ENTER button to set LED color. It shows Co1, and through UP and DOWN button, user can realize the color setting. After finished setting, press ENTER again to exit to page CH-1. The LED's color could be set to OFF, 9 colors (Co1-Co9) and change color automatically (rand).

a). When set to OFF, the LED would not light up.

b). 9 colors are as following:

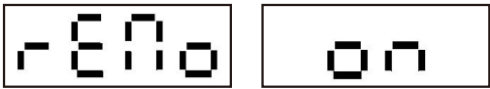
- Co 1: Red
- Co 2: Green
- Co 3: Blue
- Co 4: Pink
- Co 5: Purple
- Co 6: Orange
- Co 7: Dark Purple
- Co 8: Sky blue
- Co 9: White

After setting the above color, the LED will show the corresponding color when press the button A on the remote(CH-1 matches with button A).

c). Under Random mode, the LED will change color freely, the interval is 1s.

Note: Under DMX control, the LED's color would be controlled by DMX controller instead of this color setting page.

- There are four color standby modes, namely CH-1, CH-2, CH-3 and CH-4. Different channels match with different button on the wireless remote.
- Wireless remote setting



When it shows REMO, press ENTER button to set wireless remote function. Press UP button, it will show ON. This means that the wireless control function is activated, and it will show the registering page when the machine is powered on. Press DOWN button, it will be OFF. This means that the wireless control function is shut off. And it will not show the wireless remote registering page when the machine is powered on. After setting, press ENTER button again to exit to page REMO.

- No-fluid protection setting page



When it shows OIL, press ENTER button to set the status of low-fluid protection. Press UP button, it will show ON. This means that the low-fluid protection function is activated. Press DOWN button, it will be OFF. This means that low-fluid protection function is shut off. After setting, press ENTER button again to exit to page OIL.

● **Machine’s functions**

This machine supports wireless remote control, DMX control, fluid sensor, stop immediate function and LED lights (3W LED, 32 in total). DMX control is prior to wireless remote control. Fog duration is about 7S.

- LED lights instruction
LED lights are controlled by the digital display and DMX.
- Under wireless remote control, LED color is set according to the digital display. The LED’s on/off synchronize with the Fog’s on/off.
- Under DMX control, fog and LED are separate. It has 11 channels to control the effects of LED lights. Please refer to below DMX instruction for the details.
- DMX instruction
Total 11 DMX channels as below:
Channel 1: Fog (0-9) OFF, (10-255) ON.
Channel 2: Inner LED red, (0-9) OFF, (10-255) 0-100%.
Channel 3: Inner LED green, (0-9) OFF, (10-255) 0-100%.
Channel 4: Inner LED blue, (0-9) OFF, (10-255) 0-100%.
Channel 5: Outer LED red, (0-9) OFF, (10-255) 0-100%.
Channel 6: Outer LED green, (0-9) OFF, (10-255) 0-100%.
Channel 7: Outer LED blue, (0-9) OFF, (10-255) 0-100%.
Channel 8: Color mixing, (0-9) OFF, (10-255) Color mixing.
Channel 9: LED color changing speed (0-9) OFF, (10-255) changing speed slow

to fast

Channel 10: LED strobe (0-9) OFF, (10-255) strobe, slow to faster.

Channel 11: Dimmer (0-9) OFF, (10-255) 0-100%.

After connecting with DMX signal, the digital display will only show the address.

When the machine is heating, it will display HEAT.

5. Fluid sensor

This machine uses electronic program to detect whether there is fluid inside tube or not, hence to protect the pump from being damaged when there is no fluid.

1)How to activate “low-fluid protection”

When the no-fluid function is ON, so when the internal inspection module check out there is no oil inside the tube but the machine is still working, then the machine will get into oil free protection 20s later by shutting the pump off. The digital display will keep flashing.

2)How to release “low-fluid protection”

When the machine is under the protection of low fluid, after refilling the fluid, there are three ways to release the protection.

A). Keep pressing the one board red fog button until the fog liquid fill the tube completely, then the machine would exit low-fluid protection.

B). Under the wireless remote control, keep pressing any buttons until the fog liquid fill the tube completely, then the machine would exit low-fluid protection.

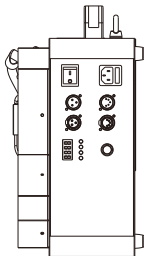
C). Under the DMX control, firstly push the slider of channel one to the value below 10(Fog OFF),then push the slider up to value above 10(Fog ON), the machine would exit low-fluid protection by doing so.

Note: When the machine is heating up. HEAT page is prior to ADDR and all the other pages. Without connecting with DMX, the digital display will back to page ADDR automatically.

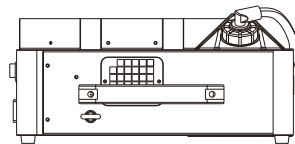
● Installation and instructions

You can use the fog machine in two situations: Floor(horizontal or vertical) and suspended use(reverse position)

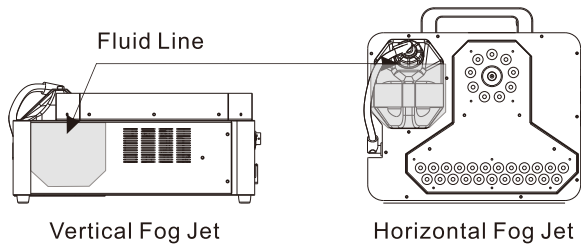
● Floor use



Floor Mounting
Horizontal Fog Jet



Floor Mounting-Vertical Fog Jet



Note: If you use the machine in horizontal fog jet, follow instructions closely to avoid tank spills.

- **Suspended use**

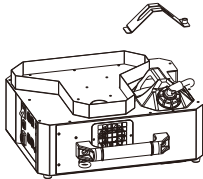
When mounting the machine in any reverse position, remove the fluid tank from the holder and set it upright on an adjacent surface.

Make sure the structure of surface onto which you are mounting the product can support the product's weight

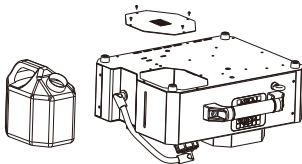
When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, such as an elevated platform or a truss

When rigging the product onto a truss, you should use mounting clamps of appropriate weight capacity

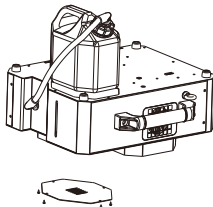
- **Fluid tank position in reverse position use:**



Remove the screw and the bottle lock to take out the tank.



Turn the fog machine upside down and removable the screws to take off the removable plate.



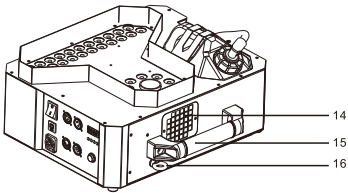
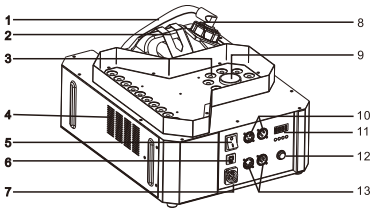
Attach the removable plate to the opposite side and secure the tank with the bottle lock.

● **Technical specification**

Voltage:	AC 100V-120V,50/60Hz	AC 220V-240V,50/60Hz
Fuse:	15A/250V	8A/250V
Power:	1500W	1,500W
LED Power:	3W X 32pcs	
LED Color:	RGB	
Heat-up Time:	4min	
Output:	32000cuft/min	
Fluid Consumption Rate:	6.3min/L	
Max Output Height:	6~8m	
Wireless Remote Controller:	W-5	
DMX-512:	✓	
Tank Capacity:	2.5L	
N.W. :	10kg	
G.W.:	11.3kg	
Machine Size:	423.8 × 376 × 205 mm	
Package Size:	495 × 455 × 260 mm	
DMX Channel:	11	
Consumables:	PRO-V	

● **Diagram**

- 1. Oil Tube
- 2. Fixed plate
- 3. 32pcs 5W LEDs
- 4. Cooling hole
- 5. Power switch
- 6. Overload protector
- 7. Power socket
- 8. 2.5L tank
- 9. Nozzle
- 10.3-pin DMX socket
- 11.Digital display
- 12.fog button
- 13.5-pin DMX socket
- 14.Wind inlet
- 15.Handle
- 16.hanging ring



● **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.

