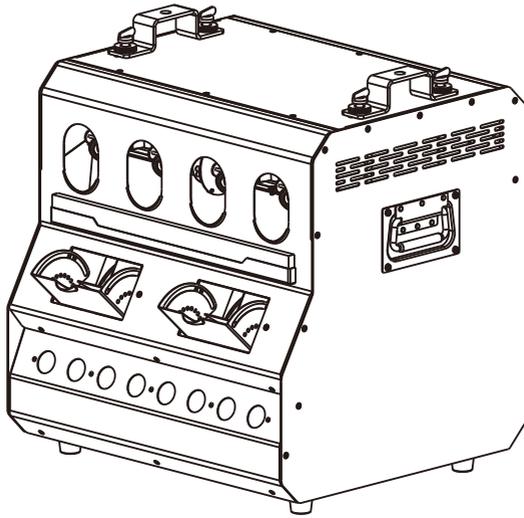# X-FORCE
by DJPOWER

WP–4L FOG BALLOON

USER MAMUAL

1 BEFORE YOU BEGIN

1.1 What Is Included

WP-4L Bubble Fog Machine　× 1　　　　　　Power cord　× 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

⚠	In order to prevent the liquid from splashing onto the ground after the bubbles burst, making the ground slippery, it is recommended to lay a layer of absorbent cotton on the ground of the bubble machine or the bubble fog machine to avoid slipping. When the machine is hung for use, keep the machine away from people or important items. After using the machine, clean up the liquid scattered on the ground in time to prevent people from slipping.

• Always connect the product to a grounded circuit to avoid the risk of electrocution.

- This Machine is just for adults, make sure that children do not obtain access to the machine.

1.5.2   Mounting and Rigging

- This machine is for indoor use only. Please keep the machine dry and do not expose it to rain or humid environment.
- When transferring product from extreme temperature environments, (For example, from cold and dry environment to warm and humid environment) 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. Please ensure that there are no flammable materials close to this product while it is operating.
- 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 50cm from adjacent surfaces.
- Be sure that no ventilation slots on the product's housing are blocked. If there is any blockage, please clear it in time.
- When hanging the machine, please use safety ropes to hang the handles on both sides of the machine and the four hooks.

1.5.3   Power and Wiring

- Before connecting the power supply, please carefully check whether the power supply voltage is consistent with the rated voltage of the machine.
- Make sure the power cord is not crimped or damaged.
- Do not connect the machine to the dimming controller 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.
- Make sure there are no flammable materials close to this product while it is operating.
- The maximum ambient temperature is 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.
- Never carry the product by the power cord or any moving part. Always use the handles.
- Drain the tank before transporting the product. Bubble fluid or the fog fluid tanks shall be used for the relevant fluid only.
- 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.
- Use only DJPOWER Consumable. Bubble fluid PRO-PW and fog fluid PRO-C and PRO-J are recommended.

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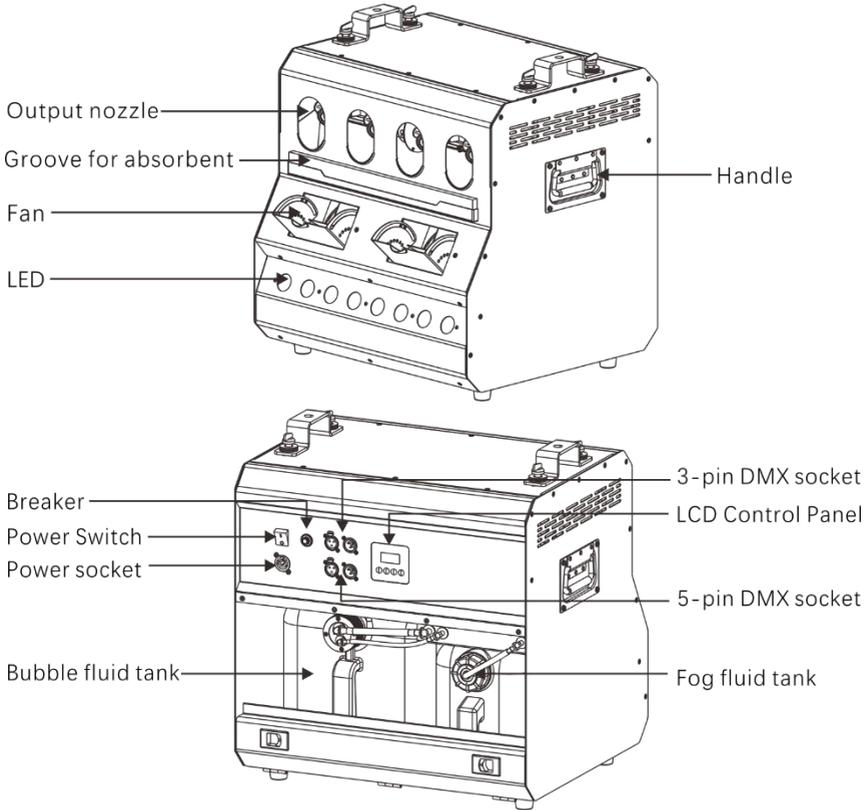
2 PRODUCT INTRODUTION

2.1 Description

WP-4L is a professional four-head bubble fog machine newly launched by DJPOWER. Its unique design can produce a large number of bubbles with haze inside, and there is little residual haze at the nozzle, avoiding a large amount of haze which affects the effect during use. It is equipped with 8 pcs of 8W four-in-one LED lights, which blend with the bubble fog effect, making the effect more beautiful. There is a residual liquid collection device at the nozzle to prevent the bubble liquid from dropping to the ground. The bubble fog fluid is sealed for storage, so that the machine can work normally even if it is placed for a long time. It is suitable for large-scale performances, product launches, large bars and other occasions.
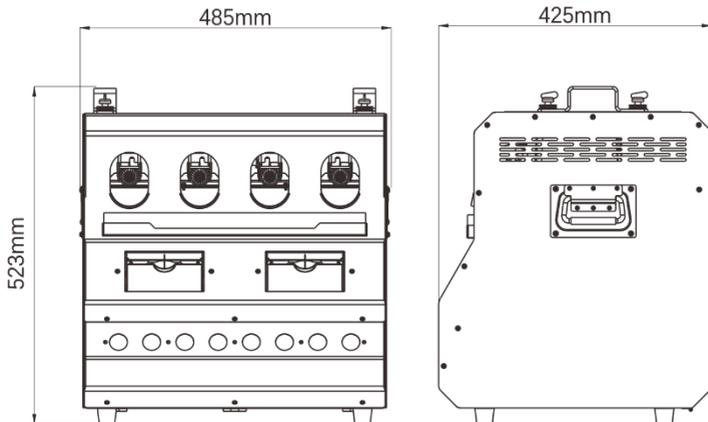
2.2 Features

- Jet design, produce perfect bubbles fog, greatly reduces the formation of excess haze;
- Well-design heating system releases the fog evenly and purely, no fluid dropping off;
- Four fans make the bubble fog fly higher and further;
- Combining with LED light, it perfectly integrates with the fog bubble effect, making the effect more beautiful;
- There is a row of absorbent cotton grooves under the nozzle to absorb the bubble liquid splashed from the nozzle, making it more convenient to use.

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

2.3　Product Overview

Output nozzle
Groove for absorbent
Fan
LED
Handle

Breaker
Power Switch
Power socket
3-pin DMX socket
LCD Control Panel
5-pin DMX socket
Bubble fluid tank
Fog fluid tank

2.4　Product Dimensions

485mm
425mm
523mm

3 TECHNICAL SPECIFICATIONS

AC Power	Input Voltage & Rate	AC 100-120V, 50/60Hz	AC 220-240V, 50/60Hz
	Current Limiter Type	Breaker	Breaker
	Current Limiter Specifications	15 A, 250 V	8 A, 250 V
	Total Power Consumption	1,400 W	
Heating	Heat Up Time	Appr. 4 min	
Light Source	LED Color	RGBY	
	LED Type	Four in one	
	Power per LED	8 W	
	Quantity of LED	8 pcs	
	Total LED Power	64 W	
Capacity	Bubble Fluid Tank Capacity	9 L	
	Fog Fluid Tank Capacity	5 L	
Output	Adjustable Output	√	
	Max Fog Output Volume	Appr. 4,500 cuft/min	
	Max Output Height	Appr. 4 m	
	Max Output Distance	Appr. 3.5 m	
	Fog Fluid Consumption (100% Output)	Appr. 91 min/L	
	Bubble Fluid consumption (100% Output)	Appr. 12.5 min/L	
	Consumable Type for Standard Output Test	PRO-PW and PRO-C and PRO-J	
Placement & Mounting	Horizontal	√	
	Inclined	×	
	Sidelong	×	
	Upside down	×	
	Hang	√	
Control	On-device Control	Digital Display LCD Control Panel	
	Wireless Control	×	
	Wired Control	×	
	Control Protocol	DMX512	
	DMX Channel Range	12	
Consumable	Consumable	PRO-PW and PRO-C and PRO-J	

Weight & Dimensions	Net Weight	26 kg
	Gross Weight	27.2 kg
	Machine Dimensions	485 × 425 × 523 mm
	Packing Dimensions	580 × 535 × 570 mm

4 SETUP

4.1 AC Power

This product has a fixed voltage power supply and can use AC 100V-120V,50/60HZ or AC 220 V-240 V, 50/60 Hz. To determine the product's power requirements (circuit breaker, power outlet, and wiring). Please refer to the values listed on the machine panel label, or the product's specifications chart. The values listed represent the average current consumption of the machine under normal conditions.

⚠ Always connect the product to a protected circuit (circuit breaker or fuse). Make sure the product has an appropriate electrical grounding 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 Power Plug

WP-4L is a self-locking power cord with a European plug at the other end (European, Chinese markets). If the power cord does not have a plug or needs to be changed, please refer to the following table to install the plug:

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

4.3 Reset Breaker

The unit is equipped with a re-settable breaker. If the breaker trips, the unit will be disconnected from the power.

- Disconnect the machine from the power.
- Wait for about 15 minutes till the unit cools down.
- After 15 minutes, manually press the button of the breaker to reset it.
- Reconnect the machine to the power outlet and continue to use it as recommended.

4.4 DMX Linking

WP-4L supports 3-pin or 5-pin connection to DMX console, and can be connected to the same console with other DMX-supported devices and controlled separately. This manual covers the operation connection and configuration of DMX.
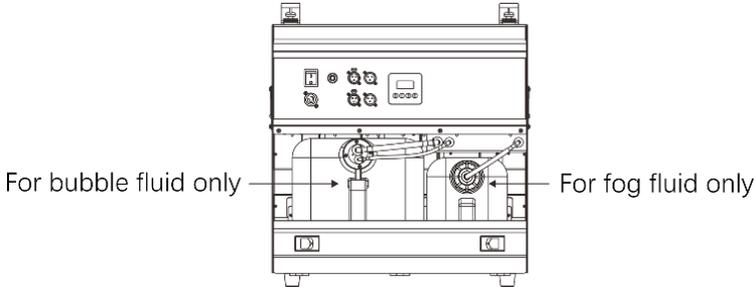
4.5   Mounting

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

4.5.1   Orientation

Please place the machine flat in a safe place. Also make sure there is adequate room for ventilation, configuration, and maintenance.

⚠️   **Please pay attention to adding consumables. The consumables cannot be mixed.**

For bubble fluid only ⟶   ⟵ For fog fluid only

4.5.2   Rigging

DJPOWER advises 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

Before operating the machine, please prepare as follows:

- After checking that all the parts are intact and complete, position the machine on flat.
- Withdraw the fluid tank from its compartment. Add bubble fluid and fog fluid to the tank separately according to the tips. The consumables cannot be mixed.
- Verify the plastic oil tube that goes from the oil bottle into the machine is not bent or twisted.
- Plug the power cord into a grounded socket. Before power on, make sure the voltage specification.

5.2   On-device Control Mode & Operation

5.2.1   On-device LCD Control Board

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

Button	Function
<MENU>	Switch menu pages (different pages set different states)
<▲>	Increase, reuse "TIME" key (timing output function)
<▼>	Decrease, reuse the "VOLUME" key (Haze output function)
<ENTER>	Confirm/Quit, reuse the "STOP" key

- Refer to the menu page to understand the menu options, including the operating interface displayed and the values that can be selected.
- You can repeatedly press the <MENU> key to the page you want to set until the setting page of the parameter appears. The value that appears on this page is the first value of the parameter.
- Press "▲" or "▼" to set or select a parameter value on the current page. If it exceeds the parameter range, you will see the first parameter or the set value.

5.2.2　Menu Map

	Display	Description	Parameter Range
Warming-up page	*HEAt*	The machine is heating	
Standby page	*ModE*	**Heating Finished** Press the ▼ key to start working	
Working Page	*HI 00*	**Haze output volume** Press "▲" or "▼" to adjust the haze output volume Press the <MENU> key to switch the air volume output interface; Press <ENTER> to stop working	
	F 3	**Air volume output** Press "▲" or "▼" to adjust the air output volume Press the <MENU> key to switch the haze output interface; Press <ENTER> to stop working	
ⓘ		1.When the machine is working in bubble mode, only the air output volume can be set 2.When the machine is working in haze mode or bubble mode, the air volume output and haze output can be set;	
Setting Page	*ModE*	**Working mode setting** Press <ENTER> key to enter the sub menu and press "▲" or "▼" to set n1-n3 mode.	n1: Haze Mode n2: Bubble Mode n3: Bubble Fog Mode
	HAcE	**Haze volume setting** Press <ENTER> to enter the sub menu and press "▲" or "▼" to set the haze volume output.	1-100
	FAn	**Wind Volume Setting** Press <ENTER> key to enter the sub menu, and press "▲" or "▼" to set the wind volume.	1/2/3 levels

		DMX address setting	
	$Addr$	**DMX address setting** Press <ENTER> to enter the sub menu and press "▲" or "▼" to set the DMX address.	1 ~ 512
	CLE	**Cleaning Mode** Press the <ENTER> key to enter the sub menu and press "▲" or "▼" to turn the cleaning mode on or off.	On/OFF
	$CoLo$	**LED Color Setting** Press <ENTER> key to enter the sub menu, and press "▲" or "▼" to set the LED light color or turn off the LED light color.	1-8/OFF
Error Page	$E1$	When the heater is turned on, if the heater temperature does not reach the preset temperature for more than 8 minutes, the heating failure protection function will be activated.	
	$E2$	If the thermocouple is open, this protection function is activated.	

5.3 DMX Mode & Operation

WP-4L Bubble Fog Machine can work 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.

After the machine is connected to the DMX signal, the digital display can only display the Addr address setting page. At this time, press "▲" or "▼" to set and modify the DMX512 address code.

5.4 Machine channel number: 12 channels

DMX Function Description

Channel 1	Bubble Output	0-10	OFF
		11-255	ON
Channel 2	Haze Output	0-10	OFF
		11-255	Gradually increase
Channel 3	Wind Output	0-10	OFF
		11-100	Low air volume
		101-200	Medium air volume
		201-255	Large air volume
Channel 4	Cleaning Switch	0-10	OFF
		11-255	ON (When cleaning mode is on, other functions are invalid)
Channel 5	Dimming Control	0-10	OFF

		11-255	Gradually brighten
Channel 6	Red	0-10	OFF
		11-255	Gradually brighten
Channel 7	Green	0-10	OFF
		11-255	Gradually brighten
Channel 8	Blue	0-10	OFF
		11-255	Gradually brighten
Channel 9	Purple	0-10	OFF
		11-255	Gradually brighten
Channel 10	Mixing	0-10	OFF
		11-255	Mixed Colors
Channel 11	Strobe	0-10	OFF
		11-255	Gradually Fast
Channel 12	Automatic color change	0-10	OFF
		11-255	Gradually Fast

6   TECHNICAL INFORMATIO

6.1   Machine cleaning and maintenance

After each time use of the bubble fog machine, it is necessary to clean the fog head with clean water in time to prevent the residual bubble liquid on the fog head from solidifying and gluing, which will cause it to fail to be used normally next time!

WP-4L needs regular cleaning and maintenance to achieve the best results. There are some essential cleaning and maintenance steps. The following are the recommended cleaning steps:

1) Unplug the product from power.
2) Empty bubble fluid and fog fluid from the machine
3) Add water to the bubble fluid tank.
4) Connect the machine to power supply to warm up. Run the Cleaning Mode. The machine automatically pumps clean water into the machine to rinse the Bubble fluid reservoir and fluid tube.
5) Run the product in a well-ventilated area until the oil tank is empty, but do not allow the pump to run dry.
6) Add bubble fluid and haze fluid again to continue using the WP-4L. Run the machine briefly to clean the remaining clean water in the oil pump and heater.
7) 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.

The default cleaning time is 1 minute. Without turning of the cleaning mode manually, it will shut of automatically after 1 minute.

ⓘ　• Test-run your DJPOWER ®WP-4L on a monthly basis to achieve the best performance.

6.2　Storage

6.2.1　Machine storage

Before storing the machine, please clean it, empty the fluid tank and Keep dry.