# X-FORCE
## by DJPOWER

**X-SW2300** USER MANUAL

## AQUA LOW FOG MACHINE

# 1 BEFORE YOU BEGIN

## 1.1 What Is Included

- X-SW2300 Machine ×1
- Power Cord ×1
- W-2 Wireless Remote Kit × 1
- Nozzle Bracket ×2
- Diversion Hose ×2
- Jumper Hose×1

## 1.2 Unpacking Instructions

Carefully unpack and check that the items are all in the package and intact.
If the carton or any part appears to be damaged or missing during transportation, contact the carrier or distributor immediately and return in original package for inspection.

## 1.3 Symbols

| Symbol | Meaning |
| --- | --- |
| ⚠ | Caution<br>Critical installation, configuration and operation instructions. Failure to follow these instructions may result in product malfunction or personal injury. |
| ⓘ | Important<br>Important installation or configuration information. Failure to comply with the instructions may lead to product malfunction. |
| 💬 | Information<br>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 this manual at any time. If you find any errors or inaccuracies in this manual, we would appreciate it if you would let us know. This helps us to further improve the user manual.
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## 1.5 Safety Notes

Read the following Safety Notes carefully before operating the machine. The Note includes 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.
- Do not touch the nozzle or machine surface during operation, as they become extremely hot.
- CAUTION: Risk of slipping! Condensation on the machine's base can create wet floors around it.
- Keep children away from the machine.
- Eye protection is always required when operating the machine closely.

### 1.5.2 Mounting and Rigging

- Operate the machine only on a flat, level, and hard surface to ensure stability and safety.

- This machine can be used both indoors and outdoors, but DO NOT immerse it in water. Long-term outdoor use requires reinforced protection against the elements.
- CAUTION: When relocating the machine between extreme temperature environments (e.g., cold / dry to warm / humid), always allow it to acclimate to ambient conditions before power connection to prevent condensation-induced electrical hazards and ensure no flammable materials are nearby during operation.
- DO NOT install the machine on flammable surfaces (e.g., linoleum, carpet, wood, paper, cardboard, plastic, or similar materials).
- Always operate the machine in the well-ventilated area with minimum 50 cm clearance on all sides.
- Ensure all ventilation slots and openings on the machine housing remain unobstructed.

### 1.5.3 Power and Wiring

- Always connect the machine to the correct rated voltage.
- Make sure the power cord is not crimped or damaged.
- Never connect this product to a dimmer control or rheostat.
- Never disconnect the product from power cord by pulling or tugging on the cord.
- To avoid unnecessary energy consumption and extend the machine's service life, completely disconnect the equipment from the power supply when not in use by either switching off the circuit breaker or unplugging the power cord.

### 1.5.4 Operation

- Do not operate the product if any damage is observed to the machine housing or cables. Immediately contact authorized technician to replace damaged components.
- Keep flammable materials away from it during operation.
- Do not cover or block the nozzle during operation.
- Do not use the machine as a space heater.
- Never carry the machine by the power cord or any moving parts. Always use the handles.
- Before transporting the machine, ensure all fluid is drained and the tank is completely empty.
- The maximum ambient temperature (Ta) is 104 °F (40 °C). Do not operate the product at higher temperatures.
- Always disconnect the machine from the power source before cleaning.
- This machine contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained and certified technicians. Unauthorized disassembly or modification may cause damage or malfunction.
- If a serious malfunction occurs during operation, stop using it immediately.
- Please use DJPOWER professional fluid PRO-SW / PRO-A and Water.
  - Keep this User Manual for future use. If you sell the product, be sure that the purchaser receives this document.

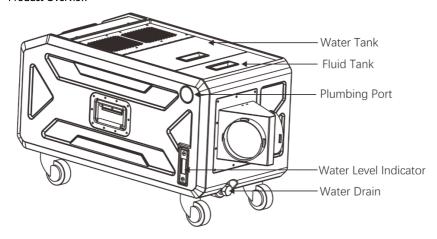# 2 INTRODUCTION

## 2.1 Description

The X-SW2300 machine utilizes ultrasonic atomization technology, eliminating the need for dry ice while producing dense, low-lying fog. Its high-strength composite chassis combines compact dimensions with lightweight durability and corrosion resistance. Its auto-replenishing atomization chamber enables continuous operation, supported by water-level control system that ensures fog output stability. It is ideally suited for large-scale venues such as nightclubs, major stage productions, and product launch events.
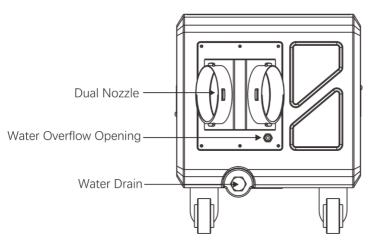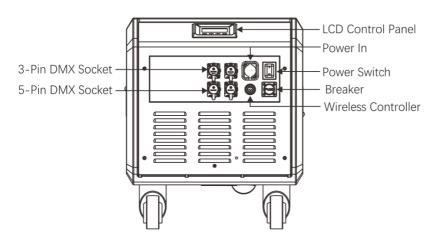
## 2.2    Features

- Rainproof construction ensures safer all-weather operation;
- Automatic water replenishment for auto-refilling, enabling continuous operation;
- Integrated backup water tank ensures uninterrupted water supply to the atomization chamber;
- The optimized airflow system extends smoke dispersion range while ensuring uniform coverage;
- Adjustable output for precise environmental adaptation;
- Advanced No-Fluid protection;
- Advanced Low-Water Protection;
- Built-in LCD control supported;
- Upgraded Drain Port to prevent leaks.
-

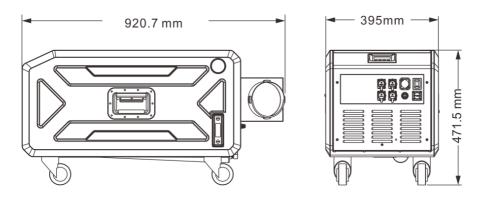Note: The actual effect may be affected by the operational conditions.

## 2.3    Product Overview



Water Tank
Fluid Tank
Plumbing Port
Water Level Indicator
Water Drain



Dual Nozzle
Water Overflow Opening
Water Drain

3-Pin DMX Socket — LCD Control Panel
Power In
3-Pin DMX Socket — Power Switch
5-Pin DMX Socket — Breaker
Wireless Controller

2.4     Product Dimensions



920.7 mm

395mm

471.5 mm

# 3   TECHNICAL SPECIFICATIONS

|  | Input Voltage & Rate | 100-120 V, 50/60 Hz | 220-240 V, 50/60 Hz |
|---|---|---|---|
| **AC Power** | Current Limiter Type | Breaker | Breaker |
|  | Current Limiter Specifications | 20 A, 250 V | 12 A, 250 V |
|  | Total Power Consumption | 1,800 W | 2,200 W |
|  | Operating Current | 20 A | 12 A |
|  | Power Input Connector | Lockable PowerCon IP65 | Lockable PowerCon IP65 |
|  | Power Output Connector | Lockable PowerCon IP65 | Lockable PowerCon IP65 |
| **Heating** | Heat-Up Time | Appr. 4-5 min | Appr. 3-5 min |
| **Atomizer** | Total Power Consumption | 900 W |  |

| | | |
|---|---|---|
| | Unit Quantity | 3 pc |
| | Power Consumption of Each Unit | 300 W |
| | Adjustable Output | √ |
| | Adjustable Range | High, Medium, Low |
| **Capacity** | Fluid Tank Capacity | 3 L |
| | Water Tank Capacity | 28 L |
| **Waterproof** | Waterproof Rate | IP53 |
| **Output** | Adjustable Volume | √ |
| | Volume Adjustment Level/Range | 1-100% |
| | Max Output Volume | Appr. 15000cuft / min |
| | Max Coverage | Appr. 300 m² |
| | Fluid Consumption @ Full volume | Appr. 34.4 min/L |
| | Continuous Output | √ |
| | Max Continuous Output Level | 100% |
| | Fully-loaded Cumulative Output Duration @ Full volume | Appr. 100.0 min |
| **Features** | Physical Thermostat | √ |
| | Electronic Thermo-Control | √ |
| | Adjustable Output | √ |
| | Adjustable Fan Speed | √ |
| | No-Fluid Protection | √ |
| **Control** | On-device Manual Control | LCD control panel |
| | Wireless Control | W-2 |
| | Wired Control | × |
| | Control Protocol | DMX-512 |
| | DMX Channel Range | 3 |
| | Data Connectors | 3- and 5-pin XLR |
| **Accessory** | Diversion Hose | 3 m, 125mm (5 inch)×2 |
| | Diversion Nozzle | Optional 125mm (5 inch)×2 |
| **Consumable** | Consumable | PRO-SW or PRO-A and Water |
| **Weight & Dimensions** | Net Weight | 39.2 kg |
| | Gross Weight | 43.5 kg |
| | Machine Dimensions | 921× 395 × 472 mm |
| | Packing Dimensions | 967 × 461 × 524 mm |

# 4 SETUP

## 4.1 AC Power

The machine has a fixed voltage power supply and can work with an input voltage of AC 100 V-120 V,50/60 Hz or AC 220 V-240 V, 50/60 Hz, depending on the specific model.
To determine the machine's power requirements (circuit breaker or fuse), refer to the values listed on the machine panel label or to the machine specification sheet. The listed current rating indicates the machine's average current draw under normal conditions.

⚠️ Always connect the machine to a protected electrical circuit (circuit breaker or fuse). Make sure the machine is connected to a grounded power plug to prevent electric shock hazards.

ⓘ 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 X-SW2300 comes with a power cord terminated with a lockable power connector on one end. The other end is
- CN plug (CN market, etc.)
- EU plug (EU market, etc.)
- US plug (US market, etc.)

If the supplied power cord is not fitted with a plug or if you need the change the plug, please refer to the following table for proper plug installation:

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

## 4.3 Resetting the Breaker

This product is equipped with a re-settable breaker. If the breaker trips, the machine will automatically disconnect from the power supply.
- Disconnect the machine from the power source.
- Allow the machine to cool down for 15 minutes.
- After 15 minutes, you may attempt to reset the breaker by pressing the button manually.
- Reconnect the machine to the power supply and resume normal operation by following the recommended usage.

## 4.4 DMX Linking

The X-SW2300 supports both 3-pin and 5-pin DMX connections to the DMX controller. It can be integrated into a DMX network with other compatible devices while maintaining individual control. Instructions for connecting and configuring this product for DMX operation are in the User Manual.

### 4.5    Mounting

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

### 4.5.1    Orientation

For safety reasons, we do not recommend other installation methods. Operate the machine on a flat, level hard only and make sure there is adequate room for ventilation, configuration, and maintenance.

### 4.5.2    Rigging

DJPOWER recommends following general guidelines for machine installation:

*   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 floor-mounted, make sure that the machine and cables are away from people and vehicles.
*

### 4.5.3    Installing

1.  The X-SW2300 is equipped with coordinated wheels for smooth mobility, featuring locking mechanisms on diagonal wheels for stationing. Simply press down the locks to secure the unit in position and prevent sliding, then press them in the opposite direction to release if relocation is needed.



⚠ •
    •  Due to the large size of the machine, do not fix the machine on a slope.
*
2.  With the power switch in the OFF position, engage the power connector by inserting and clockwise-rotating (10°) the male plug into the machine's female receptacle until fully secured.
3.  Attach the adjustable 3-meter diversion tube to the machine's output port, extending or retracting the tube as required by time.
4.  Please fill the fluid tank with DJPOWER PRO-SW / PRO-A professional fluid and securely tighten the tank lid without overfilling.

# 5    OPERATION

### 5.1    Preparing for Operation

*   After verifying the machine and all accessories are undamaged and complete, place the machine on a stable and level surface.
*   Fill the water into water tank when powering off. The capacity of water tank is 28 L.
*   Always connect the power cord to a properly grounded outlet. Before powering on, make sure that it is connected with the rated voltage.
*   Turn on the machine, it will immediately start heating up.

## 5.2 On-device Control Panel

This LCD screen features selectable Chinese / English display for user convenience.
This control mode requires DMX signal disconnection (it becomes invalid when DMX signal is connected).
When operating the control panel, please use the four buttons below the LCD display:



| Button | Function |
|---|---|
| <MENU> | Switch menu pages to select a function |
| <TIMER>/▲ | Increase the numeric value of current function TIMER starts the timer‑controlled operation |
| <VOLUME>/▼ | Decrease the numeric value of current function VOLUME triggers the pump to modify the output volume |
| <ENTER> | In / Out, reuse "stop" button |

## 5.3 On-device Control Mode & Operation

### 5.3.1 Programming

- Refer to the "MENU Map" for menu options, including the display interface and selectable values.
- To go to the desired main level, press <MENU> 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 <TIMER> or <VOLUME> until the option shows on the display. If there is another programming level, you will see the 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.

### 5.3.2 Menu Map

| | Display | Description | Parameter Range |
|---|---|---|---|
| **Starting Page** | X‑SW2300 Version | | |
| | X‑SW2300 AC‑230V 50Hz | | |
| **Preparing Page** | Heating up >>>>>>>>>>> | The machine is heating up | |
| **Standby Page** | Ready 2 Low Fog X‑SW2300 | Heating is complete and ready to work | |
| **Setting Page** | Fog Output: 100% | Press "▲"or "▼" to set fog output of VOLUME mode | 1‑100% |

| | | |
|---|---|---|
| Fan Speed:<br>100% | Press "▲"or "▼" to set fan speed of VOLUME mode | 1-100% |
| Humidity<br>High | Press "▲" or "▼" to set output humidity of VOLUME mode | OFF / Low / Medium / High |
| Timer Interval<br>10s | Press "▲"or "▼" to set timer interval of TIMER mode | 5-200s |
| Timer Duration<br>10s | Press "▲"or "▼" to set timer duration of TIMER mode | 5-200s |
| DMX Address<br>512 | Press "▲"or "▼" to select DMX starting address | 1-512 |
| Fluid Sensor<br>ON | Press "▲" or "▼" to activate / deactivate fluid sensor to turn on/off no-fluid-protection function | ON/OFF |
| Auto Run Last Settings<br>ON | Press "▲" or "▼" to set if the machine will automatically run last setting when powering on again | ON/OFF |
| Water Level Low Refill Water<br>ON | Press "▲" or "▼" to set if the machine will automatically start Low Water Protection | ON/OFF |

If the water is not fed full for 30 minutes when the function turns on, the water replenishment solenoid valve will be automatically shut down for protection of the solenoid valve. Please restart the machine to resume normal operation.

| | | |
|---|---|---|
| Language<br>English | Press "▲" or "▼" to select the language and save by ENTER | Chinese / English |

| | | |
|---|---|---|
| **Error & Warning Page** | Water Level Low<br>Refill Water | |
| | Fog Fluid Low<br>Refill | |
| | Heating Failure<br>Contact Service | |

## 5.4 DMX Mode & Operation

The Machine X-SW2300 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.

### 5.4.1    Starting Address

When selecting a starting DMX address, please consider the number of DMX channels. If you choose too high starting address, you would restrict the access to some of the product's channels.

⚠️    DJPOWER® X-SW2300 DMX controller has a configurable starting address range of 001-512 and uses 3 DMX channels. Set the maximum address to 510 to maintain control of all channels.

💬    Connect a DMX cable from the DMX output of the DMX controller to the DMX input socket on the product, or press repeatedly "MENU" button until the LCD shows "DMX Address". Press "▲" or "▼" to set desired DMX starting address.

### 5.4.2    DMX Mode Menu Map

### 5.4.3    When DMX signal is connected, the menu will automatically go to "DMX Address" page, or press "MENU" to enter "DMX Address" page. Press ▲ or ▼ to set DMX channel.
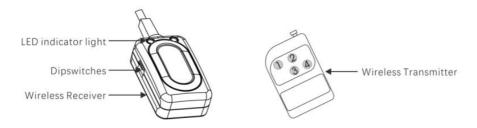
```
DMX Address
    512
```

### 5.4.4    DMX Channel Assignments and Values

| Channel | Function | Value | Description |
|---------|----------|-------|-------------|
| **1** | Fog Output | 000 - 010 | OFF |
| | | 011 - 255 | 1-100% |
| **2** | Fan Speed | 000 - 010 | OFF |
| | | 011 - 255 | 1-100% |
| **3** | Humidity | 000 -010 | OFF |
| | | 011 - 092 | Low |
| | | 093 -174 | Medium |
| | | 175-255 | High |

### 5.5    Wireless Remote-Control Mode & Operation

• You can control X-SW2300 with the wireless controller W-2 which contains both a transmitter and a receiver. Any one (or more) W-2 transmitter(s) will work directly with any one (or more) W-2 receiver(s), no pairing procedure is required. You may control up to 4 independent X-SW2300 or many more if you run them simultaneously. See the below instructions on setting up your X-SW2300 to operate with the W-2.
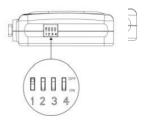
- Plug the wired receiver into the fog machine 5-pin port labeled "Wireless Controller". The red LED indicator will be on when the transmitter is successfully connected. There is no any reaction in the green LED indicator.

-

```
Ready 2 Low Fog
X-SW2300
```

- There are 4 buttons on the wireless remote transmitter which act as triggers. Each button can be assigned to different X-SW2300. You may only choose 1 dip switch on each receiver. See the below configuration options for setting the receivers to operate with the transmitter remote:

-

| Mode | Dipswitches |
|------|-------------|
| CH1 | 1 = On, 2-4 = Off |
| CH1, CH2 | 1, 2 = On, 3,4 = Off |
| CH1, CH2, CH3 | 1, 2, 3 = On, 4 = Off |
| CH1, CH2, CH3, CH4 | 1, 2, 3, 4 = On |
| ... | ... |

Press the button, the screen displays as follows:

```
Fog Output  100%
Fan Speed  100%
```

-
Press the button again, the screen displays as follows:

```
Ready 2 Low Fog
X-SW2300
```

## 5.6 Auto Run Last Settings

If the machine is shut off while it is operating at standalone mode (On-device & Wireless control), the "Auto Run Last Setting" will allow the machine to recover its last same operating status when the unit is powered on again without pressing any button.

- **Shut off: Get disconnected from power source, or turn off the power switch**
- **Power on: Get connected with power source, or turn on the power switch**

## 5.7 Fluid Sensor

This machine equipped 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.

```
Fluid Sensor
            ON
```

### 5.7.1    Trigger "No-Fluid Protection"

During operation, if the system detects no fluid in the tubing for 90 consecutive seconds, it will activate "no-fluid protection" - the pump shuts down and the display shows a flashing warning screen.

```
Fog Fluid Low
             Refill
```

When this warning message shows up, the machine will stop working but the LCD is still operable, only keep flickering.

### 5.7.2    Clear "No-Fluid Protection" Warning

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

• Press <STOP> first, then press <VOLUME> to restart the machine, the warning will clear once the fluid is pumped into the tube.
• Under the DMX control mode, first push Channel 1's fader down to the OFF position, then raise it to the ON position to resume normal operation.
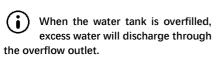• Turn off "Fluid Sensor" in the menu.

The LCD will keep flickering whenever it shows the warning message or regular operation menu pages until the fluid is finally pumped into tube and sensed by software.

### 5.8    Low Water Protection

When the water level in the tank is low, the LCD will flicker and show the warning message as follows:

```
Water Level Low
Refill Water
```

ⓘ **After showing up the warning message, the machine can still run** for another 10 minutes with remaining water in the tank, then shut off. Filling water into the tank by either opening the lid on the top, or through the water auto-refill inlet.

ⓘ **When the water tank is overfilled, excess water will discharge through** the overflow outlet.



Quick-connect water inlet port for faucet connection

Water overflow opening

⚠ The machine allows water refilling during operation without fog leakage.

ⓘ Water auto-refill: please use jumper hose (thread specification: inner thread 6 points) to prevent water overflow.

# 6   TECHNICAL INFORMATION

## 6.1   Maintenance

To prevent clogging in the X-SW2300, after every 40 hours of continuous operation, use a detergent composed of 35% vinegar and 65% distilled water through the system and fog 10-15 times after heating up to prevent the accumulation of particulate matter in the heating element.

The recommended cleaning procedure is as follows:

1) Unplug the product from power.
2) Empty all fluid from the machine.
3) Add cleaning solution to the tank.
4) Connect the product to power and allow it to heat up.
5) Run the product in a well-ventilated area until the tank is empty. Do not allow the pump to run dry.
6) Refill with fog fluid to continue using the X-SW2300. Run the machine briefly to clear any cleaning solution from the 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.

(i) • **Test-run your DJPOWER® X -SW2300 on a monthly basis to achieve the best performance.**

## 6.2   Storage

### 6.2.1   Machine Storage

Before storing the machine, clean it as described in the cleaning procedure above; however, only follow steps 1 through 5. Do not refill the tank with fog fluid if storing the machine. Cleaning the system prior to storage will help prevent any particles from condensing inside the pump or heater while not in use.

## 6.3   Trouble Shooting

| Errors | Symptom | Potential Cause | Remedies |
|--------|---------|-----------------|----------|
| **No fluid** | Refer to " MENU MAP " chapter for more information | No fluid | Refill fluid |
| | | Fluid pump error | Contact service |
| **Low water** | Refer to " MENU MAP " chapter for more information | Low water | Refill water |
| | | Water pump error | Contact service |
| **Heat failure** | Refer to " MENU MAP " chapter for more information | Heating Error | Contact service |

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