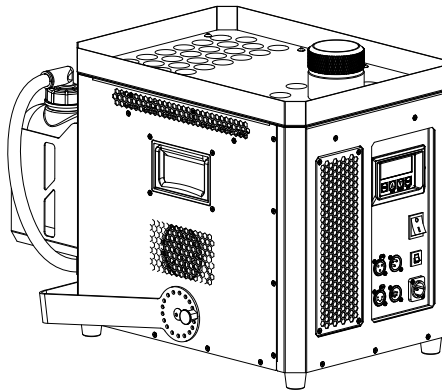




**TJ10**  
TURBO JET



**Froggy's Fog**

302 Rutherford Lane

Columbia, TN 38401

615.469.4906

[sales@froggy'sfog.com](mailto:sales@froggy'sfog.com)

Table of Contents

<b>1</b>	<b><i>BEFORE YOU BEGIN</i></b> .....	<b>4</b>
1.1	What Is Included .....	4
1.2	Unpacking Instructions.....	4
1.3	Symbols .....	4
1.4	Disclaimer .....	4
1.5	Safety Notes.....	4
1.5.1	Personal Safety .....	4
1.5.2	Mounting and Rigging.....	5
1.5.3	Power and Wiring .....	5
1.5.4	Operation.....	5
<b>2</b>	<b><i>INTRODUCTION</i></b> .....	<b>6</b>
2.1	Description.....	6
2.2	Features.....	6
2.3	Product Overview .....	6
2.4	Product Dimensions .....	7
<b>3</b>	<b><i>Technical SPECIFICATIONS</i></b> .....	<b>7</b>
<b>4</b>	<b><i>SETUP</i></b> .....	<b>8</b>
4.1	AC Power .....	8
4.2	AC Plug.....	9
4.3	DMX Linking.....	9
4.4	Mounting .....	9
4.4.1	Orientation.....	9
4.4.2	Rigging.....	9
<b>5</b>	<b><i>OPERATION</i></b> .....	<b>9</b>
5.1	Preparing for Operation .....	9
5.2	On-device Control Panel.....	10
5.3	On-device Control Mode & Operation .....	10

5.3.1	Programming .....	<b>Error! Bookmark not defined.</b>
5.3.2	Menu Map .....	10
<b>5.4</b>	<b>DMX Mode &amp; Operation DMX.....</b>	<b>12</b>
5.4.1	Starting Address.....	12
5.4.2	DMX Mode Menu Map .....	12
5.4.3	DMX Channel Assignments and Values DMX.....	12
<b>6</b>	<b><i>technical information</i>.....</b>	<b>13</b>
<b>6.1</b>	<b>Expected LED Lifespan.....</b>	<b>13</b>
<b>6.2</b>	<b>Maintenance.....</b>	<b>13</b>
<b>7</b>	<b>WARRANTY.....</b>	<b>14</b>

# 1 BEFORE YOU BEGIN

## 1.1 What Is Included




- Machine
- Power Cord
- User Manual

## 1.2 Unpacking Instructions

Carefully unpack the product immediately and check the container to make sure all included materials 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 immediately. In addition, keep the box and contents for future storage and/or transport.

## 1.3 Symbols

Symbol	Meaning
	<b>Caution</b> 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.
	<b>Important</b> Important installation or configuration information. Failure to comply with this information may keep the product from working correctly.
	<b>Information</b> Useful information.

## 1.4 Disclaimer

The information and specifications contained in this User Manual are subject to change without notice. FROGGY'S FOG assumes no responsibility or liability for any errors or omissions and reserves the right to revise or create this manual at any time.

Copyright © 2025 FROGGY'S FOG. All rights reserved.

## 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 very hot. Avoid contact.
- The product is very hot during operation, and it remains hot for a long time after the operation has stopped. Do not touch the product's nozzle. Keep a distance of 100cm between the nozzle and the person.
- Make sure that children, unauthorized people, and animals do not obtain access to the machine.

- Avoid direct eye exposure to the light source while the product is on.

### **1.5.2 Mounting and Rigging**

- This machine is not designed to be rainproof. Please keep the machine dry and do not expose it to rain or a humid environment.
- CAUTION: When transferring product from extreme temperature environments (e.g., cold truck to warm venue), condensation may form on the internal electronics of the product. To avoid causing electrical circuit issues, allow the 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.
- When hanging this product, always secure to a fastening device using a safety cable and adjust the fluid tank to sit upright.
- Be sure that no ventilation slots on the product's housing are blocked or clogged by dust. If necessary, remove the dust.

### **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.
- The maximum operating air temperature is 104 °F (40 °C). Do not operate the product in a higher temperature environment.
- 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 – as well as spilled fluid – can damage the electrical components if contact is made.
- The process of fluid vaporization can create loud popping sounds during operation. This is normal.
- Never carry the product by the power cord or any moving part. Always use the handles of the machine.。
- Drain the tank before transporting the product to prevent spillage.
- 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.
- FROGGY'S FOG Consumables are recommended for high-quality machine performance.



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 Hyperion TJ10 is a new dual-nozzle turbo jet fog machine launched by FROGGY'S FOG. It can achieve rapid upshot effects without the need for CO<sub>2</sub> cylinders and hoses. Patented high-speed turbojet airflow assist technology increases the fog eruption speed with a crisp finish. The dual-nozzle design sprays a robust plume of fog up to 50 ft. high! It has 37pcs of 8W LEDs, producing strong and colorful dual color zone fog plumes suitable for large-scale performances, bars and other entertainment settings.

### 2.2 Features

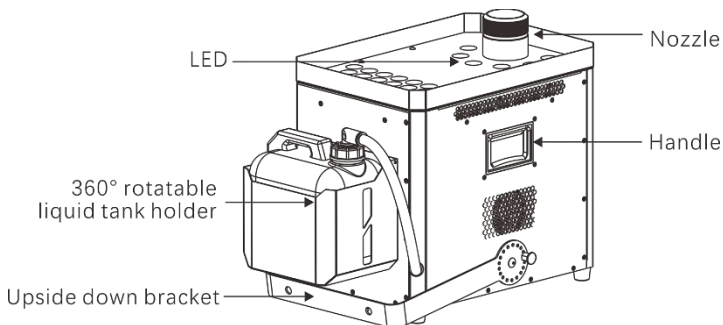
- High-Speed Turbo Jet Technology for Maximum Distance.
- Dual-Nozzle Design for Immense Plumes.
- Super Jet and Instant Stop Technology for a Fast Start and Crisp Finish.
- 37pcs of 8W LEDs with Dual Zone Lighting.
- Supports Side-Ways, Upside Down Installation and Multi-Angle Output.

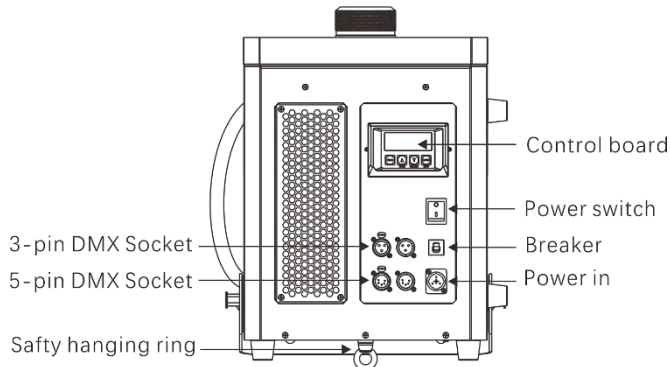
CO<sub>2</sub> style effects are best created by utilizing FROGGY'S FOG Quick Blast Fog Fluid, which produces a white and dense fog and dissipates rapidly.



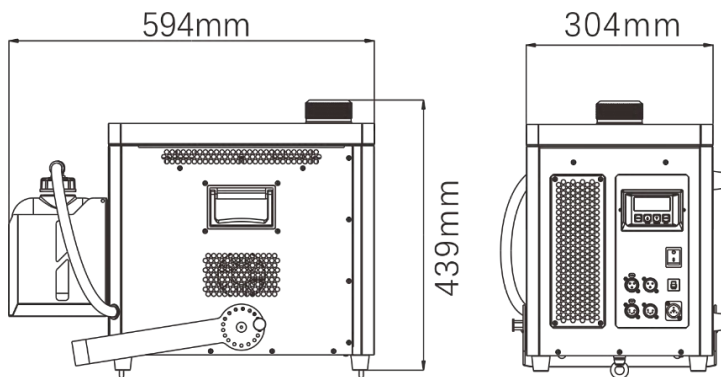
Evaporation time can be affected by the humidity of the user's environment.

### 2.3 Product Overview





## 2.4 Product Dimensions



## 3 TECHNICAL SPECIFICATIONS

	Input Voltage & Rate	AC 100-120V, 50/60Hz
<b>AC Power</b>	Current Limiter Type	15A/250V
	Total Power Consumption	1800W
<b>Heating</b>	Heat Up Time	Appr. 18 min
<b>Light Source</b>	LED color	RGB Amber
	LED Power of LED	8 W × 37 pcs
<b>Tank</b>	Fluid tank	5 L
	Output adjustable	×
<b>Output</b>	Max Output Volume	54,000 CFM
	Max Output Height	Appr. 15 m
	Fluid Consumption (100% Output)	Appr. 1.8 min/L

	Maximum Continuous Duration (100% Output)	Appr. 10 S
	Continuous Output	×
	Output Duration with Fluid Tank Full	Appr. 9 min
<b>Placement &amp; Mounting</b>	Horizontal ( Place it on the ground without covering the heat dissipation holes.)	✓
	Inclined	✓
	side lay	✓
	Hang Upside Down	✓
	Rigging & Trussing	✓
<b>Control</b>	On-device Manual Control	LCD control board
	Wireless Control	×
	Wired Control	×
	Control Protocol	DMX512
	DMX Channel Range	15 or 16
<b>Weight &amp; Dimensions</b>	N.W.	33 kg
	G.W.	37 kg
	Machine Dimensions	594 × 304 × 439 mm
	Packing Dimensions	710 × 445 × 500 mm

## 4 SETUP

### 4.1 AC Power

The machine has a fixed voltage power supply and can work with an input voltage of AC 100V-120V, 50/60Hz or AC 220V-240V, 50/60Hz, 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 AC Plug

The TJ10 comes with a power input cord terminated with a Lockable Powercon. If the power input cord that came with your product has no plug, or if you need to change the plug, use the table below to wire the new plug:

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

## 4.3 DMX Linking

You can link the TJ10 to a DMX controller using a 3-pin or 5-pin DMX connection. If using other DMX-compatible products with this product, you can control each individually with a single DMX controller. Instructions for connecting and configuring this product for DMX operation are described further into this manual.

## 4.4 Mounting

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

### 4.4.1 Orientation

Please install the machine in a safe location and ensure adequate space for ventilation, configuration and maintenance. When hanging upside down, ensure the fluid container remains upright.

### 4.4.2 Rigging

FROGGY'S FOG 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.
- When mounting the product overhead, always use a safety cable. Mount the product securely to a rigging point, whether an elevated platform or a truss.

# 5 OPERATION

## 5.1 Preparing for Operation

To prepare the TJ10 for operation, perform the following steps:

- After checking that all the parts are intact and complete, position the machine on flat.
- Make sure the plastic hose entering the TJ10 from the fluid tank cap is not bent or kinked.
- Connect the machine to the appropriate power socket.
- Turn on the machine, and "Heating Up" shows on the display during the heating-up process. After approx. 18 minutes, the display changes to "Ready to Fog" when the machine is ready to output.

## 5.2 On-device Control Panel

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 Manual output mode.
<ENTER>	Save settings STOP turns the fog output off

## 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 <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 that first option, or you will see the selected value.
- Press <MENU> repeatedly to switch menu pages.
- Press <STOP> to go back to Standby Page.

### 5.3.2 Menu Map

	Display	Description	Parameter Range
Welcome Pages	FROGGY'S FOG Version V1	Software version	
	Initializing... TJ10	Initializing	
Preparing Pages	Heating » » » » » » » »	The machine is heating up	

Standby Page	Ready to fog TJ10	Finished heating up, ready to work.	
	Timer Interval 600 S	Press “▲” or “▼” to set interval output of TIMER mode	1-600S
Setting pages	Timer Duration 10 S	Press “▲” or “▼” to duration output of TIMER mode	1-10S
	Manual Output Color 0	Press “▲” or “▼” to set the color of the LED light. "0" turns off the light by default, and 1-17 are 17 different light settings.	0-17
	Fan Idling Mode On	Press “▲” or “▼” to set whether the fan standby is on or off	On/Off
	DMX Address 1	Press “▲” or “▼” to select DMX starting address	1-512
	DMX Address 15 Channel	Press “▲” or “▼” to select 15-channel or 16-channel mode in DMX mode. There is an additional safety channel in 16-channel mode.	15/16
	Auto Run Last Settings On	After the machine is powered off and restarted, it will remember the last running status of the machine.  Press “▲” or “▼” button to turn on or off the function.	On/Off
Working pages	Language English	Press “▲” or “▼” to select the language and save by ENTER	English/Chinese
	Fogging TJ10	After the machine is heated and the DMX signal is not connected, press “▲” or “ENTER” on the panel to start or stop the machine.	
	Timer Interval 5S TJ10	After the machine is heated, the "Preparation" interface is displayed, and when the DMX signal is not connected, by pressing the panel “▲” to multiplex "TIMER", the machine can start scheduled work, and the interface displays the output interval and duration. Press "ENTER" to stop the machine's scheduled work.	
Warning pages	Heating Error 1	<b>Heating Failure</b> <b>When the machine's heater core does not reach the preset value within the allotted time, the machine stops working and reports an error. Power cycle the machine to reset the warning</b>	
	Heating Error 2	<b>Temperature Too High</b> <b>When the heater core reaches a temperature beyond its preset maximum, the machine will stop heating and reports an error. Shutting down the machine and allowing it to cool clears the error message.</b>	

## 5.4 DMX Mode & Operation DMX

The Machine TJ10 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, always consider the number of DMX channels. If you choose a starting address that is too high, you could restrict access to some of the product's channels.



**FROGGY'S FOG® TJ10 can use up to 16 DMX channels, which dictates the highest configurable address be 497 to have all channels controllable.**



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

### 5.4.2 DMX Mode Menu Map

When the machine connects to DMX, the display will always show DMX starting address, and you can set or change it at any time.

DMX Address
1

### 5.4.3 DMX Channel Assignments and Values DMX

#### 16 Channels:

Channel	Function	Value	Description
1	Fog	0 - 9	Off
		10 - 255	On
2	Fan Idle Speed	0-128	Off
		129-255	On
3	LED Red	0 - 9	Off
		10 - 255	Dim to bright
4	LED Green	0 - 9	Off
		10 - 255	Dim to bright
5	LED Blue	0 - 9	Off
		10 - 255	Dim to bright
6	Outer LED Amber	0 - 9	Off
		10 - 255	Dim to bright
7	Inner LED Red	0 - 9	Off
		10 - 255	Dim to bright
8	Inner LED Green	0 - 9	Off
		10 - 255	Dim to bright
9	Inner LED Blue	0 - 9	Off
		10 - 255	Dim to bright

10	Inner LED Amber	0 - 9	Off
		10 - 255	Dim to bright
11	LED mix color	0 - 9	Off
		10 - 255	LED mix color
12	LED mix color	0 - 9	Off
		10 - 255	LED mix color
13	LED Auto color	0 - 9	Off
		10 - 255	LED slow to fast
14	Strobe	0 - 9	Off
		10 - 255	LED slow to fast
15	Dimmer	0-9	Off
		10-255	Dim to bright
16	Safety channel	0-49	DMX Invalid operation
			DMX valid operation
		050 - 200	(After the safety channel is activated, the functions of channels 1-15 can be controlled normally.)
		201 - 255	DMX Invalid operation

**Note: The 16-channel mode has one more Safety channel than the 15-channel mode. When using DMX to control the LED, in order to extend the LED life, the LED lighting time will automatically go out after 25 seconds. Illumination beyond the 25 sec duration requires cycling Ch. 15 to 0 and then back to the desired value.**

## 6 TECHNICAL INFORMATION

### 6.1 Expected LED Lifespan

LEDs gradually decline in brightness over time, primarily due to heat. Packaged in clusters, LEDs exhibit higher operating temperatures than in ideal, single-LED conditions. For this reason, using clustered LEDs at their fullest intensity significantly reduces the LEDs' lifespan. Under normal conditions, this lifespan can be 40,000 to 50,000 hours. If extending this lifespan is vital, lower the operating temperature by improving the ventilation around the product and reducing the ambient temperature to an optimal operating range. In addition, limiting the overall projection intensity may also help to extend the LEDs' lifespan.

### 6.2 Maintenance

Cleaning and preventative maintenance are necessary to keep your machine running issue free. Please follow these instructions for safely cleaning of your fog machine if output become noticeably decreased. Typical service intervals are every 40 hrs. of machine use. High quality fluid is recommended by the manufacturer to lengthen the amount of time between periods of maintenance as described below.

Tools: Clean lint free cloth, coffee filter or similar fine mesh filter cloth, plastic, or glass container larger than the reservoir size (do not use metal), distilled water and Froggy's Fog fluid.

The recommended cleaning procedure is as follows.

1. Unplug the product from power.
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.
3. Drain any fog solution that remains in the fog fluid tank into a container through the filter mesh for reuse.
4. Add DISTILLED water to the fog fluid reservoir or dip the fog fluid intake tube into a container with distilled water.
5. Run the product in a well-ventilated area. Do not allow the pump to run dry.
6. Connect the product to power and allow it to warm up.
7. Operate the machine on 100%. Fog will come out the first moments, followed by distilled water steam.
8. After 10 mins, swap the fog intake tube into a container of fresh fog fluid.
9. Operate the machine on 100% for 2 minutes with fresh fog fluid. Steam will come out for a few first moments, followed by vaporized fog fluid.
10. The fog fluid in the internal plumbing of the machine acts as lubricant for the fog pump's plastic and rubber components during storage.
11. Turn off the machine and empty any residual fluid in the tank.
12. Wipe the machine clean with clean lint free cloth.
13. Resecure the cap assembly. Store the unit for next use once the machine is cool to the touch.
14. Store the machine in a cool, dry place when not in use. Avoid freezing temperatures, high heat above 120 degrees and humid/damp locations which could cause control board electrical issues.

**If possible, remove from storage after 6 months and operate the machine for 15 minutes or more, then repeat step 9 – 13.**



Test-run your machine monthly to achieve the best performance.

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

## 7 WARRANTY

Save these instructions. 2 Year Limited Warranty: Valid from the date of purchase. Warranty covers manufacturing defects only and does not cover misuse or abuse of the machine. Serial number, place of purchase with dated valid receipt must be submitted at time of service. Warranty is only valid with-in the United States (Lower 48). Buyer may be responsible for shipping fees associated with repairs.