CONTENTS

1   BEFORE YOU BEGIN

1.1   What Is Included

1. 1 x Hyperion D6 Vertical Fog Machine

2. 1 x Power Cord

3. 1 x User Manual

4. 1 x Wireless Transmitter

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. FROGGYS FOG 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

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

•   During heating up and operation, the housing will be hot. Avoid contact.

•   **The product is very hot during operation and it remains hot for a long time after operation has stopped. Do not touch the products nozzle.**

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

•   Never drink fog 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.

1.5.2   Mounting and Rigging

•   The product is for indoor use only! To prevent risk of fire or shock, do not expose the product to rain or moisture.

- CAUTION: When transferring product from extreme temperature environments, (e.g. cold truck to warm humid ballroom) 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.
- 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.
- 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 before continuing use.
- The maximum ambient temperature is 104 °F (40 °C). Do not operate the product at higher temperatures.
- **Do not cover the ventilation slots when operating to avoid internal overheating. Maintain adequate ventilation.**
- **Do not cover or plug the output nozzle during operation.**
- This Machine can be used indoors and outdoors, but it is not waterproof. Please keep it away from moisture and water. If moisture, water or fluid gets inside the housing, discontinue use until remedied.
- Wipe up unspent fluid immediately. Excess moisture can shorten the life of the electrical components.
- 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.**
- Always disconnect the product from the power source before cleaning.
- In the event of a serious operating problem, stop using the product immediately.
- 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 as well as combustible and flammable materials.
- 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 FROGGYS FOG Consumables, Quick Blast Fast Dissipating Fluid is recommended. The fluid's optimal vaporization temperature coincides with the machine's heater core operating temperature to give you efficient fog production and minimize incomplete vaporization.**
- Only specifically designed water-based scent additives may be added to the fog fluid. Never add flammable liquids of any kind (oil, gas, non-application specific perfumes). Pay attention to all warning labels and instructions printed on the exterior of your machine.

Keep this User Manual for future use. If you sell the product, be sure that the purchaser receives this document.

2   TECHNICAL SPECIFICATIONS

AC Power	Input Voltage & Rate	120 V, 60 Hz
	Current Limiter Type	Breaker
	Current Limiter Specifications	15A/250V
	Total Power Consumption	1,600 W
Heating	Heat Up Time	4 Min
Light Source	LED Color	RGBAW+UV
	LED Type	HEX-Color
	Power per LED	10W
	Quantity of LED	14 pcs
	Quantity of Inner LED	6 pcs
	Total Power of Inner LED	**60W**
	Quantity of Outer LED	8 pcs
	Total Power of Outer LED	**80W**
Capacity	Fluid Tank Capacity	.66 Gal
Output	Adjustable Output	√
	Max Output Volume	32,000 cfm
	Max Output Height	30 ft.
	Fluid Consumption (100% Output)	160 ml/min
	Maximum Continuous Duration (100% Output)	8 sec
	Continuous Output	No
	Consumable Type for Standard Output Test	Froggys Fog Quick Blast Fog Fluid
Placement & Mounting	Horizontal	√
	Inclined	√
	Vertical	√
	Hang Upside Down	√
	Rigging & Trussing	√
Control	On-device Manual Control	LCD Control Board
	Wireless Control	√
	Wired Control	√
	Control Protocol	DMX512
	DMX Channel Range	17
Certification	CE	
	RoHS	
Consumable	Consumable	Froggy's Fog Water Based Fog Fluids
Weight & Dimensions	Net Weight	35.3
	Gross Weight	38.6
	Machine Dimensions	16.5 / 15 / 8 in
	Packing Dimensions	19.5 / 18 / 10.25 in

3   SETUP

3.1   AC Power

The machine has a fixed voltage power supply and can work with an input voltage of AC 120 V, 60 Hz, 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.**

3.2   AC Plug

The FFM-HYPERION-D6 comes with a power input cord terminated with a Lockable Powercon IP65 connector that can be disconnected under live load.

3.3   Resetting the Breaker

This product is equipped with a resettable circuit breaker. If the breaker trips, all sections of this product will lose power.

- Remove the power cord from mains power.
- Allow unit to cool for 15 minutes.
- After 15 minutes, you may attempt to reset the breaker by pressing the button with your finger.
- Plug the product's power cord into the power outlet and continue using as recommended.

3.4   DMX Linking

You can link the FFM-HYPERION-D6 to a DMX controller using a 3- 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 located further in the manual.

3.5   Mounting

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

3.5.1   Orientation

Always mount this product in a safe position and make sure there is adequate room for ventilation, configuration, and maintenance.

3.5.2   Rigging

FROGGYS 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 to avoid damage and tripping concerns.
- 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.

4   OPERATION

4.1   Preparing for Operation

To prepare the FFM-HYPERION-D6 for operation, perform the following steps. :

- After checking all the parts are intact and complete, position the machine on a flat surface.
- Withdraw the fluid tank from its compartment and remove its cap.
- Verify that the two plastic hoses (intake and instant stop pressure release) are attached to the cap are in place and in good condition and not kinked.
- Pour fog fluid into the tank (Do NOT exceed the max fluid level) and replace the cap.
- Return the tank back to its compartment in the FFM-HYPERION-D6.
- Make sure the plastic hose entering the FFM-HYPERION-D6 from the fluid tank cap is not bent or kinked.
- Always connect the product to a grounded circuit.
- Turn on the machine, and "Heating Up" shows on the display during the heating-up process. After approx. 4 minutes, the display changes to "Ready to Fog" when the machine is ready to output.

4.2   On-device Control Panel

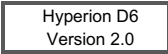To access the control panel functions, use the four buttons located underneath the LCD display.
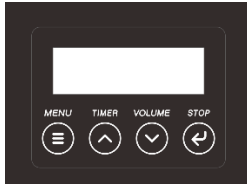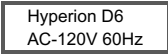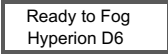
• Button		• Function
<MENU> ⊜		• Switch menu pages to select a function
<TIMER> ⊙		• Increases the numeric value of current function
		• Triggers TIMER output mode
<VOLUME> ⊙		• Decreases the numeric value of current function
		• Triggers VOLUME output mode.
<STOP> ⊙		• Save current setting and return to standby page.
		• STOP output

4.3   On-device Control Mode & Operation

4.3.1   Programming

•   Refer to the Menu Map to understand the menu options. The menu map shows the main level and a varying number of sub 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.

•   Press <MENU> repeatedly to switch menu pages.

•   Press <ENTER> to go back to Standby Page.

4.3.2   Menu Map

	Display	Description	Parameter Range
Starting Pages	Hyperion D6 Version 2.0		
	Hyperion D6 AC-120V 60Hz		
	WirelessPairing >>>>>>>>>>>>>>		
Preparing Pages	Heating Up >>>>>>	The machine is heating up	
Standby Page	Ready to Fog Hyperion D6	The machine has heated up and ready to fog	

Working Pages	Interval 600S Hyperion D6	Interval output of TIMER mode	
	Duration 8S Hyperion D6	Duration output of TIMER mode	
	Interval 200S >>>>>>>>>>>>>	Interval in Progress	
	Duration 60S >>>>>>>>>>>>>	Duration in Progress	
	OutputActivated Hyperion D6	Output of VOLUME mode	
	OutputActivated >>>>>>>>>>>>>	Heating Up during VOLUME mode	
Setting Pages	Fog Output 100%	Press ⊙ or ⊙ to set VOLUME fog output	1%-100%
	Timer Interval 600s	Press ⊙ or ⊙ to set timer interval	1-600
	Timer Duration 60s	Press ⊙ or ⊙ to set timer duration	1-60
	Timer Fog Output 100%	Press ⊙ or ⊙ to set TIMER fog output	1%-100%
	Channel A Color 20	Press ⊙ or ⊙ to set output color	1-20/OFF
	Channel B Color 20	Press ⊙ or ⊙ to set output color	1-20/OFF
	Channel C Color 20	Press ⊙ or ⊙ to set output color	1-20/OFF
	Channel D Color 20	Press ⊙ or ⊙ to set output color	1-20/OFF
	DMX Address 1	Press ⊙ or ⊙ to select DMX starting address	1-512
	Fluid Sensor OFF	Press ⊙ or ⊙ to turn ON/OFF fluid sensor	ON/OFF

	Wireless OFF	Press ⊙ or ⊙ to turn ON/OFF wireless control functionality	ON/OFF

Warning Pages	Fog Fluid Low Refill	Please refill fog fluid
	Fog Fluid Low >>>>>>>>>>>>	
	Heating Failure Contact Service	Contact the manufacturer for machine servicing

4.3.3 Default Color Combination

Color	Inner Color	Outer Color
OFF	OFF	OFF
1	Red	Red
2	Green	Green
3	Blue	Blue
4	Amber	Amber
5	White	White
6	UV	UV
7	Magenta	Magenta
8	Yellow	Yellow
9	Cyan	Cyan
10	Red	Amber
11	Amber	Red
12	Green	Red
13	Red	Green
14	Red	Blue
15	Blue	Red
16	Cyan	Yellow
17	Magenta	Cyan
18	Yellow	Green
19	Green	Yellow
20	Auto Color (Color 1-19 rotating every 1 second)	Auto Color (Color 1-19 rotating every 1 second)

4.4 Wireless Remote-Control Mode & Operation

This mode will allow you to control the machine using the wireless controller W-5. When wireless is not in use, it is best practice to disable the wireless control functionality via the menu to eliminate the possibility for RF interference with other nearby RF devices.

4.4.1 Pairing

When the wireless control function is activated, the display will show the pairing countdown during the machine's power on procedure:

```
WirelessPairing
>>>>>>>>>>>>>>
```

💬
- The countdown line will increase gradually until full.
- During this time, press any button on the remote. The LCD display will flash twice, indicating a successful remote pairing.
- If no new pairing happens during the pairing process, the previous paired remote controller(s) will be retained and employed.
- Once a new pairing occurs, all the previous paired remote controller(s) in previous pairing processes will be overwritten.
- During the wireless pairing process at the start-up (if wireless mode is on), one machine can be paired with up to 5 unique RF wireless remote controllers and controlled by all of them at the same time.

4.4.2 Wireless Operation

- Press any of the lettered channel buttons once to activate fog according to the lighting profile assigned to the channel.
- Press the same channel button again to stop operation.

4.5 DMX Mode & Operation DMX

The Machine FFM-HYPERION-D6 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.

4.5.1 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 the access to some of the product's channels.

⚠ **FROGGYS FOG® FFM-HYPERION-D6 DMX set the starting address in the 001 - 512 DMX range and uses 17 DMX channels, which defines the highest starting address to 496 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 press repeatedly "MENU" button until the LCD shows "DMX Address". Press ▲ or ▼ to set desired DMX starting address.**

4.5.2 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.

4.5.3 DMX Channel Assignments and Values DMX

Channel	Function	Value	Description
1	Fog	000 - 010	No function
		011 - 255	1-100%
2	Inner Red	000 - 010	No function
		011 - 255	1-100%
3	Inner Green	000 - 010	No function
		011 - 255	1-100%
4	Inner Blue	000 - 010	No function
		011 - 255	1-100%
5	Inner Amber	000 - 010	No function
		011 - 255	1-100%

6	Inner White	000 - 010	No function
		011 - 255	1-100%
7	Inner UV	000 - 010	No function
		011 - 255	1-100%
8	Outer Red	000 - 010	No function
		011 - 255	1-100%
9	Outer Green	000 - 010	No function
		011 - 255	1-100%
10	Outer Blue	000 - 010	No function
		011 - 255	1-100%
11	Outer Amber	000 - 010	No function
		011 - 255	1-100%
12	Outer White	000 - 010	No function
		011 - 255	1-100%
13	Outer UV	000 - 010	No function
		011 - 255	1-100%
14	Color Mixing	000 - 010	No function
		011 - 255	Color Mixing
15	Auto Color	000 - 010	No function
		011 - 255	Color 1-19 rotating, Speed slow to fast
16	Strobe	000 - 010	No function
		011 - 255	Strobe, slow to fast
17	Master Dimmer	000 - 010	No function
		011 - 255	1-100%

4.6 Fluid Sensor

This machine uses software-based fluid sensor to monitor heater core temperature deviations from expected drops due to normal fluid vaporization. Turn on the "Fluid Sensor" to activate this pump protection function.

4.6.1 Trigger "No-Fluid Protection"

When the Fluid Sensor is ON, the software-based "no-fluid protection" function will be activated. After the program continues to detect the machine working with no fluid inside the tube for 1 minute, the pump-shutoff will be activated with the flickering warning page showing on the screen.

4.6.2 Clear "No-Fluid Protection" Warning

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

- Press and hold ENTER until the fluid line is primed and fog production is resumed.
- Under the DMX control mode, bring down channel 1 to OFF (value 0-9), then up to ON (value 10-255),
- Turn off "Fluid Sensor" in the menu.

5 TECHNICAL INFORMATION

5.1 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.

5.2   Maintenance

Do not allow the FFM-HYPERION-D6 heater core to become clogged. Regardless of fog fluid used, the heating process will create internal residue that must be mitigated from time to time. Dust build-up in the fan housing reduces light output performance and can cause overheating and increased mechanical wear. **Cleaning your fog machine regularly will help reduce costly parts replacement and repair charges.**

Please follow these instructions for safely cleaning your Fog machine if output become noticeably decreased. Typical service intervals are every 40 hrs. of machine use. High quality fluid recommended by the manufacturer lengthens 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 Froggys Fog fluid.

1.   Allow the machine to cool down before handling.

2.   Cleaned any dust or lint from any ventilation opening or fan filters.

3.   Drain any fog solution that remains in the tank into a container through the filter mesh for

       reuse.

4.   Add distilled water to fill the fog fluid reservoir approximately 1/3.

5.   Run machine for 10 minutes. fog will come out the first few cycles, followed by distilled water

       steam.

6.   Turn off the machine and allow to cool down, then drain the distilled water from the reservoir.

7.   Refill the reservoir approximately 1/3 with good quality fog solution.

8.   Turn the machine on, run for 10-15 minutes. Water vapor steam will come out the first few

       cycles, followed by fog. Continue fogging for 5-10 cycles.

9.   Turn off the machine and allow to cool, then wipe machine clean with clean lint free cloth.

       Drain excess fog fluid strained back to its original container. The fog fluid in the internal plumbing of the machine acts as lubricant for the pump's plastic and rubber components.

10.   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.

11.   **If possible, remove from storage after 6 months and operate the machine for 15 minutes or**

       more, then repeat step 8 – 10.

ⓘ   **Test-run your FROGGYS FOG® FFM-HYPERION-D6 on a monthly basis to achieve the best performance.**

5.3   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   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.