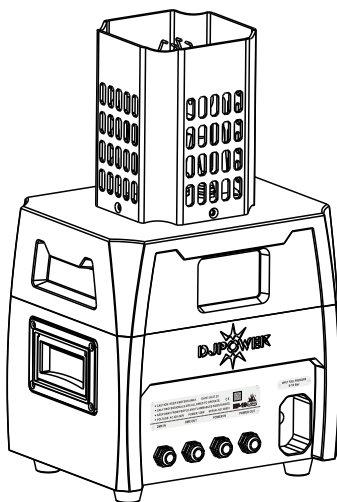


TOPCAT®
HIGH-END EFFECTS



HF-10  **TOPCAT**
TCFLAMER

USER MANUAL

1. BEFORE YOU BEGIN

1.1. What Is Included




Flame Machine x1 Infrared Remote Control x1 User Manual×1 Warranty Card x1

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. Attention

- It is forbidden for non-professionals to use this machine, and it is forbidden to open the casing to repair this machine by yourself
- Please pay attention to the use environment, the safe distance between people and inflammable has been marked on the machine. Please prepare dry powder and fire extinguishing equipment at the machine use place. Always have a dry powder fire extinguisher, CO2 fire extinguisher, and an extinguishing blanket in case of needed
- Instructions of using a safe distance for the flame machine : The safe area is 15 meters away from the spray angle, and the safe area is 5 meters away from the flame machine. In the non-safe area, people and objects are not allowed to enter connect the power cable,
- Communication DMX cable should well connected and ensure the command keep at firing OFF status. And safety lock stay at test mod
- Make sure power supply in consistent with the rated voltage of the equipment, And use grounded socket. Unplug and turn off the machine when not use.

- After the machine is powered on, make sure that no one is in the danger area of the machine. All persons involved need to be informed of the safety distances, hazards and functions of this machine
- If there be any doubt as to the safety operation of the device in any circumstances, the device should be taken out of service immediately. Be sure the device is in good operating condition before use, check the sparkle oil, fuse, cable and power plug. If fail to fire correctly, immediately shut down and contact the factory.
- Be sure to use the suitable flame fuel indicated in the user manual, otherwise, it is easily lead to failure or danger. Do not add any material other than the specified proportion of castor oil in the oil drum. Be careful when refill the flame fluid tank. Please keep flame fluid away from heat source, sparks, fire or other possibility of ignition.
- The operator should be able to directly see the state near the machine, When there is danger, the performance can be terminated immediately. There should be a general AC power switch near the operator, When an abnormality occurs, all machine power should be disconnected in time. It is forbidden to change the structure of the machine without authorization, and the machine cannot be used for other purposes than the manufacturer's designed purpose

1.5. Disclaimer

Thanks for choosing DJPOWER TCFlamer HF-P10. When you purchase this machine, you will recognize the following instructions by default. Please read following manual carefully and completely before operating this product. Operate according to instructions is very important for safety, and can elongate the service life of the machine. Strictly follow the instruction in the manual when operate flame machine HF-210. If you have any doubts, please contact DJPOWER.

DJPOWER excludes liability for unsafe situations, accidents and damages resulting from:

1. The machine is not arranged for use by professionals, and the machine is still used when the machine malfunctions or is damaged.
2. Ignoring warnings or regulations as shown on Wave flame machine or this manual.
3. Use for other applications or circumstances other than those indicated herein.
4. Use this machine by unqualified or untrained personnel. including use of non-original spare parts.
5. Removed safety cover without authorization from DJPOWER.

DJPOWER is not liable for the damages caused by failure of the wave flame machine.

The information and specifications contained in this manual are subject to change without notice and keep the right to modify or revise this manual at any time. Copyright© 2022 DJPOWER All rights reserved.

1.6. 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.

1.6.1. Personal Safety

- Do not let non-professionals touch the machine, spray fire oil, keep away from children, keep away from heat, sparks, open flames and other flammable items.

- **The safety distance of HF-P10: The safe area is 15 meters away from the spray angle, and the safe area is 5 meters away from the flame machine. In the non-safe area, people and objects are not allowed to enter.**
- Please prepare dry powder and fire extinguishing equipment at the machine use place. Always have a dry powder fire extinguisher, CO2 fire extinguisher, and an extinguishing blanket in case of needed.

1.6.2. Mounting and Rigging

- 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.). Keep a safe distance from the unit, the unit can only be placed horizontally.

1.6.3. Power and Wiring

- Please use a grounded socket to avoid the risk of electric shock.
- Make sure power supply is consistent with the rated voltage of the equipment, Unplug and turn off the machine when not use.
- Check that the power cord is not pinched or damaged.
- Do not connect the machine to a dimming controller or varistor.
- Do not disconnect the power supply by pulling the power cord.

1.6.4. Operation

- The maximum ambient temperature is 40 ° C. Do not operate the machine in a high temperature environment.
- Do not operate this product if the machine casing or cable is damaged. Immediately ask the authorized technician to replace the damaged part.
- Make sure there are no flammable materials around the machine before operation, and keep a safe distance between the person and the equipment. **The Safe distance for the HF-P10 is: at least 15m in all projection directions, at least 5m to the other sides of the device. In the non-safe area, people and objects are not allowed to enter.**
- Before connect the power cable, communication DMX cable should well connected and ensure the command keep at firing OFF status. And safety lock stay at test mode
- The operator responsible for the control of Wave flame machine must always have a clear view of the device, so that he/she can stop the show immediately when there is danger. The main AC power switch should near operator. So that operator can turn off the power of all devices in case of abnormal.
- If there be any doubt as to the safety operation of the device in any circumstances, the device should be taken out of service immediately. Be sure the device is in good operating condition before use, check the sparkle oil, fuse, cable and power plug. If fail to fire correctly, immediately shut down and contact the factory.

- The machine does not contain any user disassembled and self-repaired or modified parts. Do not attempt to repair or modify the machine yourself without any training or authorized technicians to avoid damage or malfunction.
- Be sure to use the suitable flame fuel indicated in the user manual, otherwise, it is easily lead to failure or danger. Do not add any material other than the specified proportion of castor oil in the oil drum. Be careful when refill the flame fluid tank. Please keep flame fluid away from heat source, sparks, fire or other possibility of ignition.



Please save this manual for future use. Sell the machine again, be sure to attach the instructions.

2. INTRODUCTION

2.1. Description

TCFlamer HF-P10 is a flame head launched by DJPOWER. It is specially designed for outdoor use. The waterproof level reaches IP67. With DJPOWER' s fuel pump station TCPumper DH-2.4, it can realize remote fuel supply.

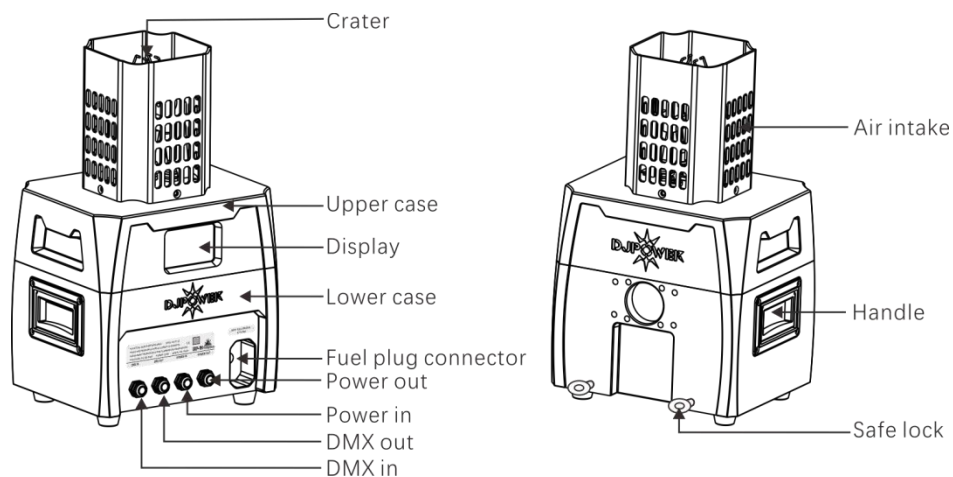
Through DMX control and infrared remote control, remote non-contact settings can be realized, which more safe. The flame up to about 10 meters, and the explosive force was full. Suitable for major outdoor activities that need to create a fiery atmosphere Features

2.2. Features

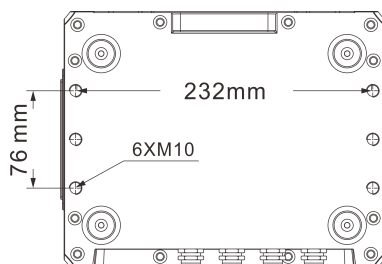
- Aluminum housing, imported fuel nozzles, IP67 waterproof rating
- Dual igniter, fast injection, safe and reliable
- Flame height up to 10 meters(no wind), more explosive
- Controlled by DMX
- Through infrared remote control, remote non-contact settings can be realized
- Built-in Accumulator
- Customized voltage 220V, 110V and so on

Ps: The actual effect may be affected by the usage environment

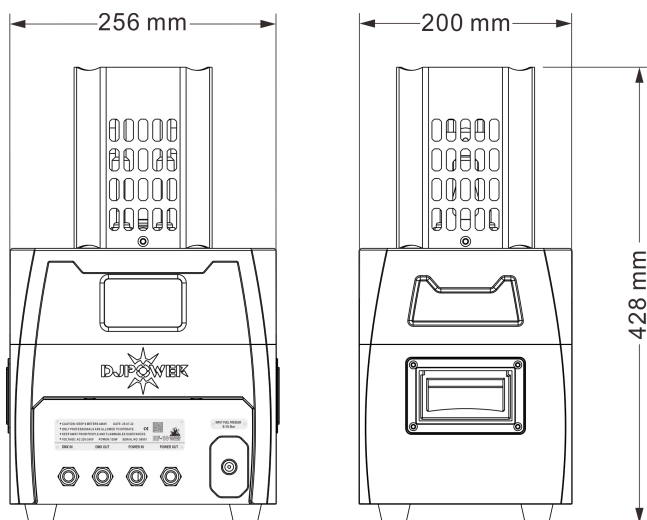
2.3. Product Overview



2.4. Bottom Mounting Hole Diagram



2.5. Product Dimensions



3. TECHNICAL SPECIFICATIONS


Voltage	AC 220-240 V, 50/60 Hz(customizable)
Total Power	120 W
Max output height:	Appr. 10m(no wind)
Max Continuous Duration@full volume	Appr. 8s
IP Rate	IP67
Work Pressure	8-10 bar
DMX512:	√
DMX Channel	2channels or 6 channels
Body Control	Digital display
Wireless Control	Infrared remote control
Lay Flat	√ (Safe distance: The spray angle range is 15 meters away, and the surrounding area is 5 meters away)
Lay Sideways	√ (Safe distance: The spray angle range is 15 meters away, and the surrounding area is 5 meters away)
Incline	√ (Safe distance: The spray angle range is 15 meters away, and the surrounding area is 5 meters away)
Hang Upside Down	√ (Safe distance: The spray angle range is 15 meters away, and the surrounding area is 5 meters away)
Hang	√ (Safe distance: The spray angle range is 15 meters away, and the surrounding area is 5 meters away)
House Material	Aluminum Alloy
Ignition method	Dual high voltage electronic ignition
Fluid Consumption Rate	Appr. 0.4min/L
Consumable	Isopar-G (or isopropyl alcohol, bio-ethanol, please consult a sales representative for this type of consumables)
Net Weight	17.5 kg
Gross Weight	21.6 kg
Machine Dimensions	256 × 200 × 428mm
Packing Dimensions	560 × 330 × 375mm


4. SETUP

4.1. AC Power

The machine has two kinds of voltage power supply, it can work with an input voltage of AC 220 V-240 V, 50/60 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.

5. OPERATION

5.1. Body Display



5.1.1. Boot Display

After power on, the display will show HF10 and the software version number U0.10 after 2S

5.1.2. Indicator Light Function

Indicator Light	Function	Description
Red Light	READY	When the pressure is greater than the set lower threshold and less than the upper threshold, the red light will be on (see the following description for details)
Green Light	DMX Light	When the DMX signal is successfully connected, the green light flashes continuously

5.1.3. Four Digital Display Description

DISPLAY	MEANING	DISPLAY	MEANING	DISPLAY	MEANING	DISPLAY	MEANING	DISPLAY	MEANING	DISPLAY	MEANING
	0		1		2		3		4		5
	6		7		8		9		A		B
	C		D		E		F		G		H
	I		J		K		L		M		N
	O		P		Q		R		S		T
	U		V		W		X		Y		Z

5.1.4. Digital Display Content

Display Content	Function	Description
CXXX	Channel Mode	Such as : C2H 2 Channel Mode C6H 6Channel Mode
DXXX	DMX Address	Such as : D001(DMX Address is 1)
PXXX	Real-time Pressure value	Such as : P100 (100=10bar)

Under main page CXXX, DXXX, PXXX take turns

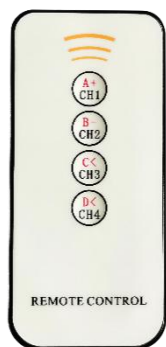
5.1.5. Digital Display Setup instruction

Display	Function	Parameter range	Default	Description
DXXX	DMX Address	1 ~ 512	1	DMX Address : 1
PXXX	Pressure value	0-999	--	P100 (100=10bar)
LXXX	Switch of Digital Display and Light	ON/OFF	ON	ON: The digital display and indicators in the display area can be displayed normally OFF:The infrared remote controller automatically goes black after 30s without any operation signal to the device

RXXX	READY Red Light shows the Upper Pressure threshold	90-180	150	Pressure > 150 , READY Red Light Flash
BXXX	READY Red Light shows the Upper Pressure threshold	20-80	60	Pressure \geq 60 , READY Red Light on Pressure < 60 , READY Red Light off
T00X	Enter the Driver Test	1/2	1	Electric spark test, after pressing the confirm button, the electric spark test will be turned off after 3S
			2	Injection valve test, after pressing the confirm button, the injection valve switch is opened for 3S and then closed
CXXX	Channel Mode	2CH/6CH	2CH	2CH : Two Channels Mode 6CH : Six Channels Mode

(Ps: X is a variable value; after parameter setting with remote controller, it will take effect and save automatically)

5.2. Infrared Remote Controller Operation Instructions



Key	Function	Description
A+ CH1	Numerical value+	Numerical+operate, support long press, auto save after setting
B- CH2	Numerical Value-	Numerical-operate, support long press, auto save after setting
C< CH3	Unlock key and menu switch key	Operate: Long press 10s to unlock(After unlocking,you can set parameter) After unlock, If there is no key operation within 30S, the setting will be automatically locked.After the settings are unlocked, short press to switch the menu. (After the unlocking is successful, the decimal point in the lower right corner of the digital display is flashing)
D< CH4	Return key	Press this key return the main page



Precautions for remote control use:

- (1) When unlocking, keep the remote control close to the screen glass to prevent unlocking the next machine by mistake
- (2) Unlocked settings cannot be enabled, keys are invalid

5.3. DMX CONTROL

5.3.1. 2CH, Two Channels Mode

Channel	Function	DMX Value	Function Description
(CH1)	Ignition Switch	0~253	No Flaming
		254~255	Start Flaming
(CH2)	Mode Setting	0~49	Don't Flame mode
		50~200	Flame mode
		201~255	Don't Flame mode

5.3.2. 6CH, Six Channels Mode

Channel	Function	DMX Value	Function Description
(CH1)	/	/	/
(CH2)	/	/	/
(CH3)	Ignition Switch	0~253	No Flaming
		254~255	Start Flaming
(CH4)	Ignition time setting	0	Keep Flaming(The default is 8S)
		1~254	10~2540ms (Manual ignition time=DMX Value*10ms)
		255	Keep Flaming(The default is 8S)
(CH5)	/	/	/
(CH6)	Mode Setting	0~49	Don't Flame mode
		50~200	Flame mode
		201~255	Don't Flame mode

6. MAINTENANCE

1. To maintain the system in good performance and running status, it is recommended to running the device at least once per month.



It must not be pressurized without oil, otherwise it will cause damage to the main board and the oil pump.

