



Low Fog 1500



PFXLOWFOG Instruction Manual



CAUTION - ATTENTION - VORSICHT

RISK OF ELECTRIC SHOCK- DO NOT OPEN
RISQUE D'ELECTROCUTION - NE PAS OUVRIR
STROMSCHLAGGEFAHR - NICHT OFFNEN



In Compliance with the following directives: RoHS Directive (2002/95/EU) and WEEE directive (2002/96/EU)
If this product is no longer functional or reached the end of its usable life, please take it to an approved recycling plant.



User Manual

PFXLOWFOG 1500

Dear Customer,

Thank you for purchasing the Perform FX PFXLOWFOG 1500. With decades of experience in design and production, Perform FX are one of the leading manufacturers of professional effects and lighting equipment. This fog machine has been designed and manufactured to the highest of standards, so you can be assured you have made a good investment.

For your safety and to ensure you make full use of all the features available, please make sure you read this manual in full.

Important Safety Advice:

- You must read this manual in full before commencing operation.
- The machine should be operated by a responsible and competent adult only.
- Keep this manual in a safe place for future reference.
- Heed all warnings and instructions, both in this manual and on the product.
- Carry and transport this product with care.
- Impact to this machine or dropping may result in serious mechanical failure. The machine should not be used if it has been subjected to such incident.
- Turn off and unplug this machine from the mains supply when not in use.
- This machine is not water-proof and should not be used outside.
- In the event of any liquid entering the housing, unplug immediately & contact a qualified engineer.
- You must not attempt to modify this unit
- The manufacturer accepts no responsibility for injury or damage caused as a result of not following the manual provided.

Protection from Electric Shock:

- Only connect this unit to a mains socket with suitable trip and RCD protection.
- To disconnect from the mains socket, always remove by the mains plug. Do not attempt to remove by pulling the mains cable.
- Disconnect the unit from the mains supply before cleaning. Cleaning should be carried out with a soft, dry cloth.
- Do not submerge or expose this machine to any liquid.
- Do not operate near exposed water or in high humidity.
- Choose a suitable route for mains cables, ensuring trip hazards are avoided and the mains cable is not at risk of being crushed.
- Do not open this unit to service. There are no user-serviceable parts inside. Any servicing or repairs should be carried out by a qualified engineer only. Any attempt to service or adapt this unit will leave your warranty void and could result in serious malfunction or injury.

Protection from Fire:

- Do not place near sources of heat or ignition.
- Do not cover or block any ventilation holes.
- Check your AC wall socket will take the power you are applying to avoid overloading the mains supply.

Protecting Your Machine From Damage:

- Always install in a suitable location where vibrations to the unit are avoided.
- Check this unit matches the mains voltage and frequency before plugging it in to your mains socket.
- In the event that any object or liquid enters the machine switch off immediately, remove from mains and consult a qualified engineer.
- Should you experience any malfunction or damage to the mains cable, disconnect from the mains supply immediately and consult a qualified engineer.
- All parts should be replaced with genuine spare parts and carried out by a qualified engineer.
- Do not add liquids of any kind, especially flammable liquids to this machine or its intended fluid. Use only water based fluid, specifically designed for effects machines.
- Use high quality water-based liquid, recommended by your dealer to reduce clogging.
- During operation ensure there is sufficient fluid in the tank. Operating without fluid will damage the pump.
- If your machine fails to work disconnect immediately, remove all liquid and return in original packing to your dealer.
- Always drain the fluid and water tanks before transporting.
- Follow the cleaning and maintenance advice in this manual.
- If your machine fails to work, disconnect immediately, remove all liquid and return in original packing to your dealer.

Danger of Injury or Burns:

- For operation by adults only, ensure installation is away from the reach of children.
- Never leave the machine running unattended.
- Avoid all contact with the heater.
- Never aim the nozzle directly at people.
- Use only in a well ventilated area & do not cover the machine vents. In order to guarantee adequate ventilation, allow a free air space of at least 20cm around all sides of the machine.
- Effects fluids can cause irritation and injury, handle with care and keep out of the reach of children. Avoid contact with the eyes and skin, if this occurs rinse with warm water. If ingested call a doctor immediately.

Before Use:

Before commencing setup check the machine has not been damaged in transit. In the event there is any damage to the housing, cable or internal components contact your dealer immediately.

Contents Includes:

PFXLOWFOG Machine
Power Cable
Flexible Hose
Wireless remote and receiver
Instruction Manual

Specifications:

Code: PFXLOWFOG
Mains Supply: 240Vac 50Hz
Power: 1750 Watts
Heat Up Time: 5 min
Dimensions: 750 x 445 x 550mm
Weight: 39kg

Description:

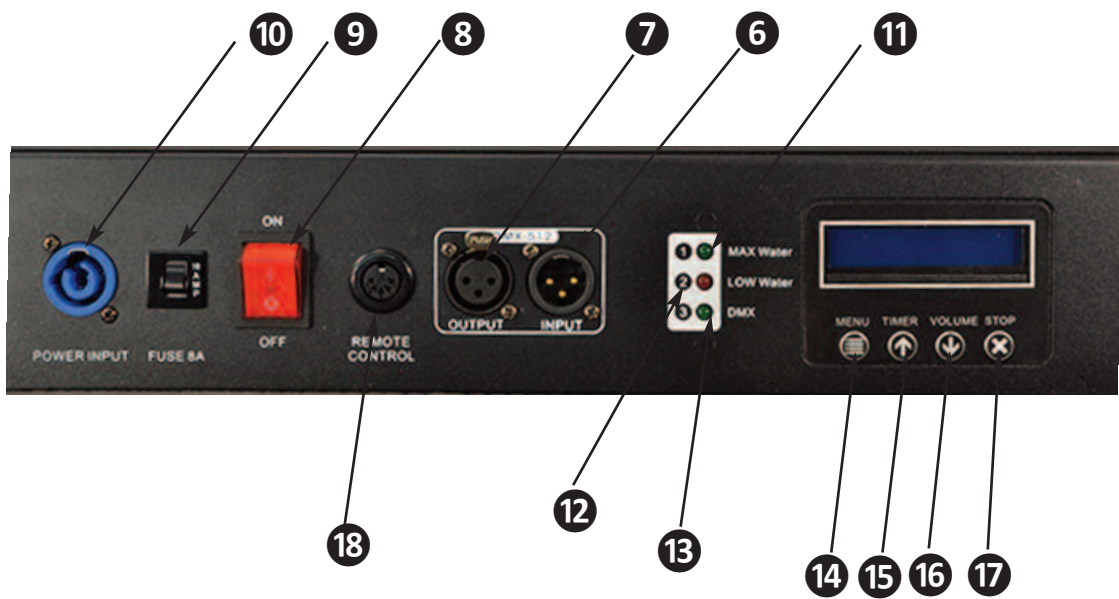
The PFXLOWFOG 1500 is a 1500 Watt fog machine which uses water based fluid and is supplied built in to a protective flightcase with wheels.

Product Features:

- Two ultra-sonic agitators to convert the smoke and distilled water into low smoke.
- 1500 watt heater.
- 2.5L fluid tank.
- Uses water based fog fluid.
- No Ice Required
- Wireless remote control.
- DMX controllability, 2 channels of control.
- Adjustable fan speed.
- Supplied built into a strong flightcase

Product Diagram:

- 1. Water Tank Compartment:** This is the water tank compartment where the two ultra-sonic agitators can be found. Use only distilled water (with 2 spoonful's of salt) and do not under or overfill. Always empty before transporting.
- 2. Fluid and control compartment:** Fill the fluid tank with standard fog liquid, taking care not to spill as this could cause damage to the electronics. The control panel is used to adjust and control the fogger.
- 3. Water Tap:** Used to drain the water tank.
- 4. Fans:** Do not cover these air intakes. Make sure polluted air cannot enter them.
- 5. Hose Connection:** Connect the supplied PVC hose using the supplied hose clamp. Stretch the hose out and place it on the floor so the fog can flow over the desired area.
- 6. DMX Input:** Female 3 pin is used to connect from a DMX controller or previous DMX fixture.
- 7. DMX Output:** Male 3 pin used to connect to the next DMX fixture in the chain.
- 8. Power Switch:** Used to turn the fogger on and off.
- 9. Circuit Breaker:** If this trips reset once, if it trips again there may be a problem with the machine & you should contact your dealer.
- 10. Mains Input:** Connect the supplied PowerCon mains cable in here. Use only the cable provided.
- 11. Water Level OK:** Indicates there is still enough water in the tank for operation.
- 12. Water Level Min:** Indicates the water level is too low. The unit will stop working until the tank is refilled.
- 13. DMX LED:** Indicates there is a DMX signal present.
- 14. Menu Button:** Used to browse the setup menu.
- 15. Timer Button:** Used to increase a level or to activate the timer.
- 16. Volume Button:** Used to decrease a level or switch the output manually on.
- 17. Stop Button:** Used to stop the timer or manual operation.
- 18. Remote Control:** For connection of the wireless receiver.



Set-Up Menu:

The setup menu is used to adjust the different parameters of the fogger. The Menu button (14) is used to navigate through the menu options.

- **DMX512 Add:** Press the up and down arrows to adjust the DMX address.
- **FAN SPEED:** Press the up and down arrows to adjust the fan speed.
- **VOLUME OUT:** Press the up and down arrows to adjust the output volume 1-100%
- **INTERVAL SET:** Press the up and down arrows to adjust the interval time 10s-200s
- **DURATION SET:** Press the up and down arrows to adjust the duration time 10s-100s

First Time Operation Wireless Controller:

- Before commencing operation check the machine for any damage, should there be any do not use your device and contact your dealer immediately.
- The PFXLOWFOG is designed to be used with water based fog liquid, **DO NOT USE OIL BASED FLUID.**
- Using **DISTILLED** water, fill up the water compartment (1) between the Min-Max level indicators on the tank. Add approx. 2 tablespoons of kitchen salt and stir the water to distribute the salt well.
- Place your fog machine on a flat and stable surface, ensuring it is out of reach of children and the heater cannot be touched.
- Ensure you have a suitable fog fluid (water based) and fill the fluid tank (2) to a suitable level, being careful not to overfill. Replace the lid on the fog fluid and store out of reach of children. Ensure that the fluid level does not run dry throughout operation, failure to do so may result in damage to the machine.
- Connect the wireless receiver into the socket on reverse labelled "Remote Control"(18).
- Connect the PFXLOWFOG to a suitable mains supply.
- Your machine is now ready to be controlled via the wireless remote control. Button A on the remote produces full fan speed and output, button B on the remote stops output and switches off the fan.

First Time Manual/ Timer Operation:

- Before commencing operation check the machine for any damage, should there be any do not use your device and contact your dealer immediately.
- The PFXLOWFOG is designed to be used with water based fog liquid, **DO NOT USE OIL BASED FLUID.**
- Using **DISTILLED** water, fill up the water compartment (1) between the Min-Max level indicators on the tank. Add approx. 2 tablespoons of kitchen salt and stir the water to distribute the salt well.
- Place your fog machine on a flat and stable surface, ensuring it is out of reach of children and the heater cannot be touched.
- Ensure you have a suitable fog fluid (water based) and fill the fluid tank (2) to a suitable level, being careful not to overfill. Replace the lid on the fog fluid and store out of reach of children. Ensure that the fluid level does not run dry throughout operation, failure to do so may result in damage to the machine.
- Connect the PFXLOWFOG to a suitable mains supply.
- When you first turn on the fog machine you will need to wait for around 3-5 minutes for the heater to warm up. After this time you will gain access to the controls.
- Use the 4 button menu on reverse to set Fan Speed, Volume, Interval and Duration.
- Once set the 'Volume' button (16) activates Manual Mode & the 'Timer' button (15) activates Timer Mode.
- The 'Stop' button (17) stops both the Timer and Manual Mode.

First Time Operation With DMX:

- Before commencing operation check the machine for any damage, should there be any do not use your device and contact your dealer immediately.
- The PFXLOWFOG is designed to be used with water based fog liquid, **DO NOT USE OIL BASED FLUID.**
- Using **DISTILLED** water, fill up the water compartment (1) between the Min-Max level indicators on the tank. Add approx. 2 tablespoons of kitchen salt and stir the water to distribute the salt well.
- Place your fog machine on a flat and stable surface, ensuring it is out of reach of children and the heater cannot be touched.
- Ensure you have a suitable fog fluid (water based) and fill the fluid tank (2) to a suitable level, being careful not to overfill. Replace the lid on the fog fluid and store out of reach of children. Ensure that the fluid level does not run dry throughout operation, failure to do so may result in damage to the machine.
- Connect a suitable DMX controller via the 3 pin DMX socket on reverse (6).
- Connect the PFXLOWFOG to a suitable mains supply.
- When you first turn on the fog machine you will need to wait for around 3-5 minutes for the heater to warm up. After this time you will gain access to the controls.
- Set a DMX address via the 4 button menu display.
- The fogger can be controlled by 2 channels of DMX, 1=volume output and 2= Fan speed.

Self-Cleaning Function:

For convenience this machine is equipped with a self-cleaning function. It is important you allow this cycle to run after each use. Do not switch your machine off, allow the cleaning cycle to finish. The cleaning cycle pushes air through the pump and heater to remove any residue of liquid left after use, this will prolong the life of the heater.

- If in DMX mode; Turn the fog output to zero and then turn the power off after about 1 minute 30 seconds.
- If using the internal menu; Use the stop button and then turn power off after 1 minute 30 seconds.
- If using the wireless remote; Press button B on remote and then turn off after the 1 minute 30 seconds.

Maintenance:

- Do not allow liquid to become contaminated. Always replace the cap on the liquid container immediately after filling.
- Empty the fluid and water tanks after every use. Use a dry cloth to wipe down the inside of the water tank.
- Make sure the mains cable is in impeccable condition, this should be replaced if even a small defect is detected.
- All other maintenance should be carried out by a qualified engineer.

DMX BASICS:

- DMX is short for “digital multiplexer”, which is a universal protocol designed for the entertainment industry. It allows control of intelligent fixtures like scanners, moving heads, LED par cans, dimmer packs & effects machines etc.
- DMX allows you to control many fixture channels, normally up to 512, with varying channels from 0-255 (0-100%).
- This will give control of channels such as gobo selection, movement, colours, dimming and timing to name just a few.
- DMX is a very good system, as all this information can be sent down one cable. Used in conjunction with a DMX controller with memory, all of your channel settings can be saved and recalled easily.
- DMX was designed so that all manufacturers can use the same protocol/language to control their fixtures, allowing the end user to use any make of fixture from their DMX controller as long as both are DMX compatible, and the controller has enough channels to control the fixture that is attached.
- Fixtures have an input and output DMX socket, allowing you to connect from the controller to the first fixture then from that fixture to the next (this is often referred to as “daisy chaining”).
- Sockets are normally 3 pin XLR but can be 5 pin XLR.

DMX fixtures need to have a DMX address set, this is so they can then decode the correct information from the controller. This is normally done by a digital display panel, where the address can be changed by simple up and down buttons; the address ranges from 1-512. Alternatively it may be controlled by a row of small switches, called dip switches; on this type system, the required address is then converted to a binary number.

DMX Connector Wiring

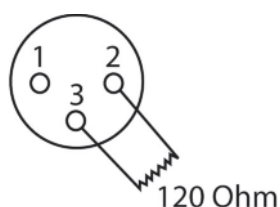
3 PIN	5 PIN
PIN 1 GND	PIN 1 GND
PIN 2 -	PIN 2 -
PIN 3 +	PIN 3 +
	PIN 4 NOT USED
	PIN 5 NOT USED

3 Pin wiring is more common, but the 5 pin configuration is often used on larger equipment. With the 5 pin configuration, not all pins are used, though it is worth checking the fixture manual, as some equipment use the extra pins for low voltage control. 5 Pin connectors are ideal so there is no confusion over mixer leads and DMX leads in larger rigs. Sending a mixers 48v phantom power down a DMX cable could damage the DMX light or fixture.

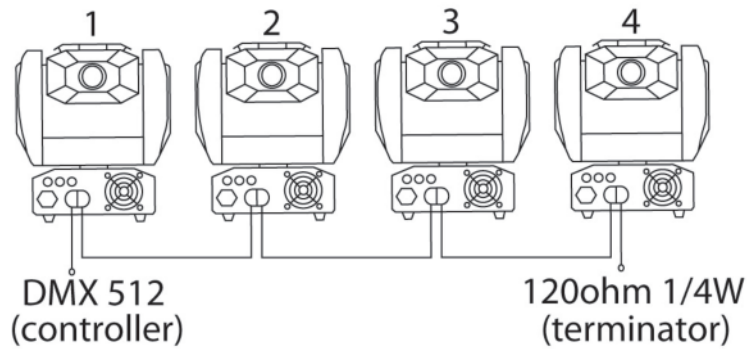
If making cables, always use suitable DMX cable and do not connect pin 1 GND to the outer casing of the connector as you might do with audio cables, as this may cause erratic behaviour from your fixture.

Do not make “Y” leads to split cables to fixtures; always use the in and out sockets or a DMX splitter, as again this may cause erratic behaviour from your fixture.

We recommend you to plug a DMX terminator into any fixture that hasn't got a DMX lead connected from the output socket to another fixture; This again is to reduce unexpected behaviour. A DMX terminator is simply a male XLR plug with 120 ohm, ¼ watt resistor soldered across pin 2 & 3.



Example of a DMX line



Ch1	Ch2	Ch3	Ch4	Normal	Colour
Pan	Tilt	Shutter/Shaking	Gobo		Split
540°	270°	246-255 Open	255 Fastest speed Gobo change	255 Fastest speed Rainbow Effect	255 Fastest speed Rainbow Effect
		247 Fastest speed shaking			
			128 Slowest speed Gobo change		128 Slowest speed Rainbow effect
			120-127	128 Slowest speed Rainbow effect	121-127 Pink
			111-119	118-127 Pink	113-120 Yellow+Pink
			103-110	107-117 Yellow	106-112 Yellow
			094-102	096-106 Orange	098-105 Orange+Yellow
		132 Slowest speed shaking	086-083	086-095 Light Green	091-097 Orange
			077-085	075-085 UV Purple	083-090 Light Green+Orange
		131 Fastest speed shutter	069-076	064-074 Blue	076-082 Light Green
			060-068	054-063 Red	068-075 UV Purple
			052-059	043-053 Amber	061-067 Blue
			044-051	032-042 Light Blue	053-060 Red+Blue
		16 Slowest speed shutter	035-043	022-031 Magenta	046-052 Red
			0-26-034	011-021 Green	038-045 Amber
		008-015 Open	018-025	000-010 White	031-037 Light Blue
		000-007 Blackout	009-017		023-030 Magenta
0°	0°		000-008		016-022 Green+Magenta
					008-016 Green
					000-007 White

Each fixture takes up 5 DMX Channels (See Above)

You have a cable from the controller to the first fixture cable, then from first to second and so on. The last light then has a DMX terminator plugged in.

Fixture 1 would be set to DMX address 1

Fixture 2 would be set to DMX address 6

Fixture 3 would be set to DMX address 11

Fixture 4 would be set to DMX address 16

When setting these addresses, ensure that the fixture addresses dont overlap. You can set two fixtures to the same address as long as they have the same channel layout, they will then perform in the same way.

We recommend you to read manuals for your DMX fixture and controller in full. Some controllers tell you what each fixture address needs to be, and some equipment will need other settings changed before they will work.