

PFX600H Instruction Manual



PERFORM
PFX

Stage Mist 600



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 reaches the end of its usable life, please take it to an approved recycling plant.

CE

RoHS

**UK
CA**

Version 1.0

www.terralec.co.uk

Dear Customer,

Thank you for purchasing the PERFORM FX PFX600H Stage Mist 600. With decades of experience in design and production, PERFORM FX is one of the leading manufacturers of Professional Lighting and Effects equipment. This unit has been designed and manufactured to the highest standards so you can be assured you have made a good investment.

For your safety and to ensure you make full use of the Stage Mist 600 features, please make sure you read this manual in full.

Safety Advice:

- Read this manual in full before operating this product.
- 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. Dropping this product may result in serious mechanical failure.
- The manufacturer accepts no responsibility for injury or damage caused as a result of not following the manual provided.
- Turn off and unplug this machine from mains supply when not in use.
- This machine is not waterproof and should not be used outside.
- In the event of any liquid entering the housing, unplug immediately and contact a qualified engineer.

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 expose this unit to any liquids.
- 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.

Protection from Injury and Damage:

- Do not attempt to modify this unit.
- Always install the unit 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 the 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.

Danger of Burns:

- For operation by adults only. This unit must be installed out of reach of children.
- Never leave the machine running unattended.
- Never aim the nozzle directly at people.
- The machine nozzle becomes very hot. Avoid coming within 60cm of the output nozzle during operation.
- Ensure your machine nozzle has completely cooled before handling.
- Locate this unit 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.

Safety & Protecting Your Machine:

- 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 packaging to your dealer.
- Always drain the tank before transporting.
- Do not drink fog, haze, snow or bubble liquid and avoid contact with the skin and eyes. If ingested call a doctor immediately. In the event of fluid coming into contact with your skin, rinse thoroughly with warm water.

Contents & Unpacking:

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

Specifications:

A 600 Watt water-based haze machine, with wireless remote and DMX controllability.

Code: PFX600H

Mains Supply: 230Vac 50Hz

Power: 600 Watts

Heat Up Time: 1 min

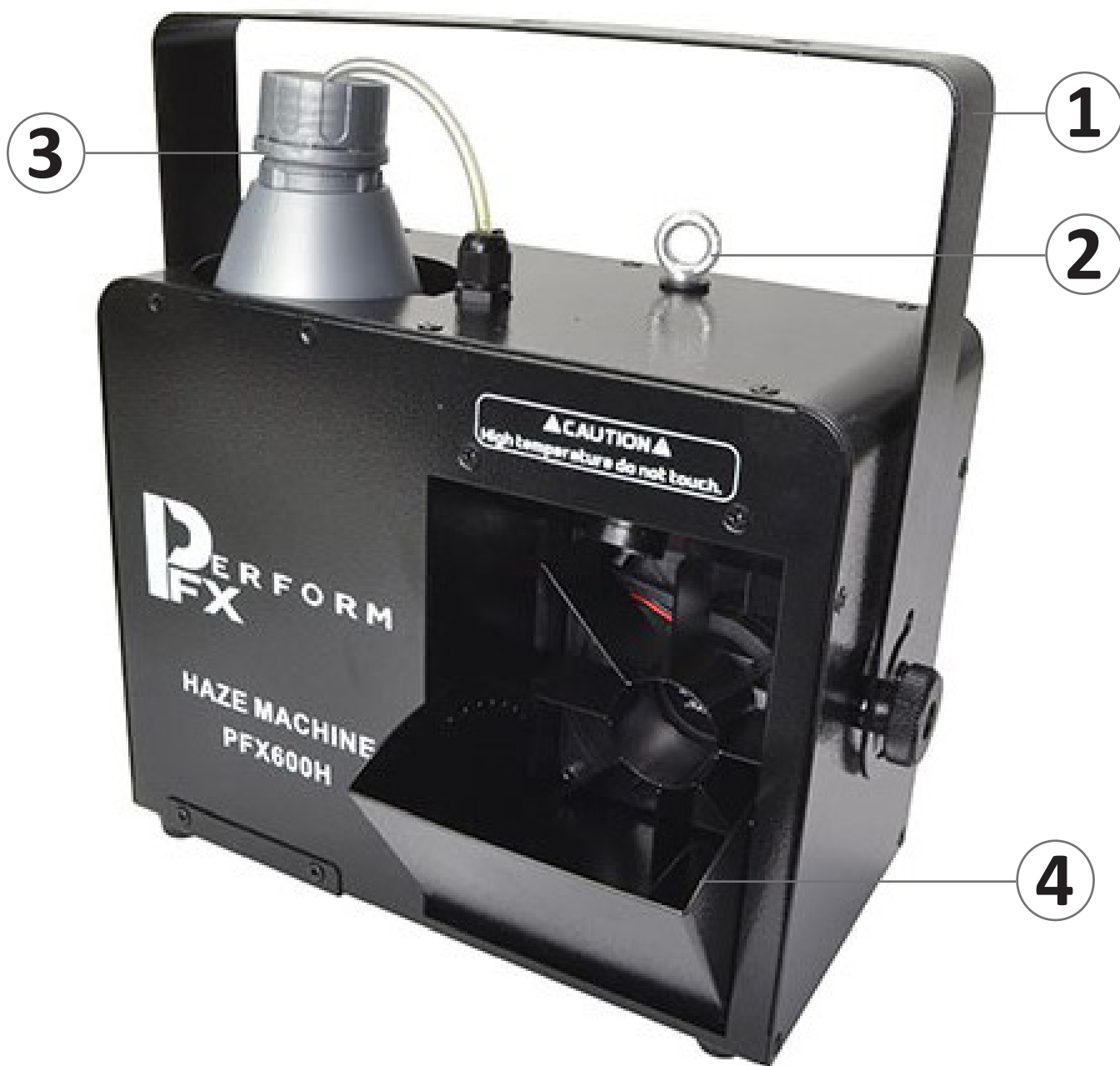
Dimensions: 258 x 140 x 300mm

Weight: 4kg

Features Include:

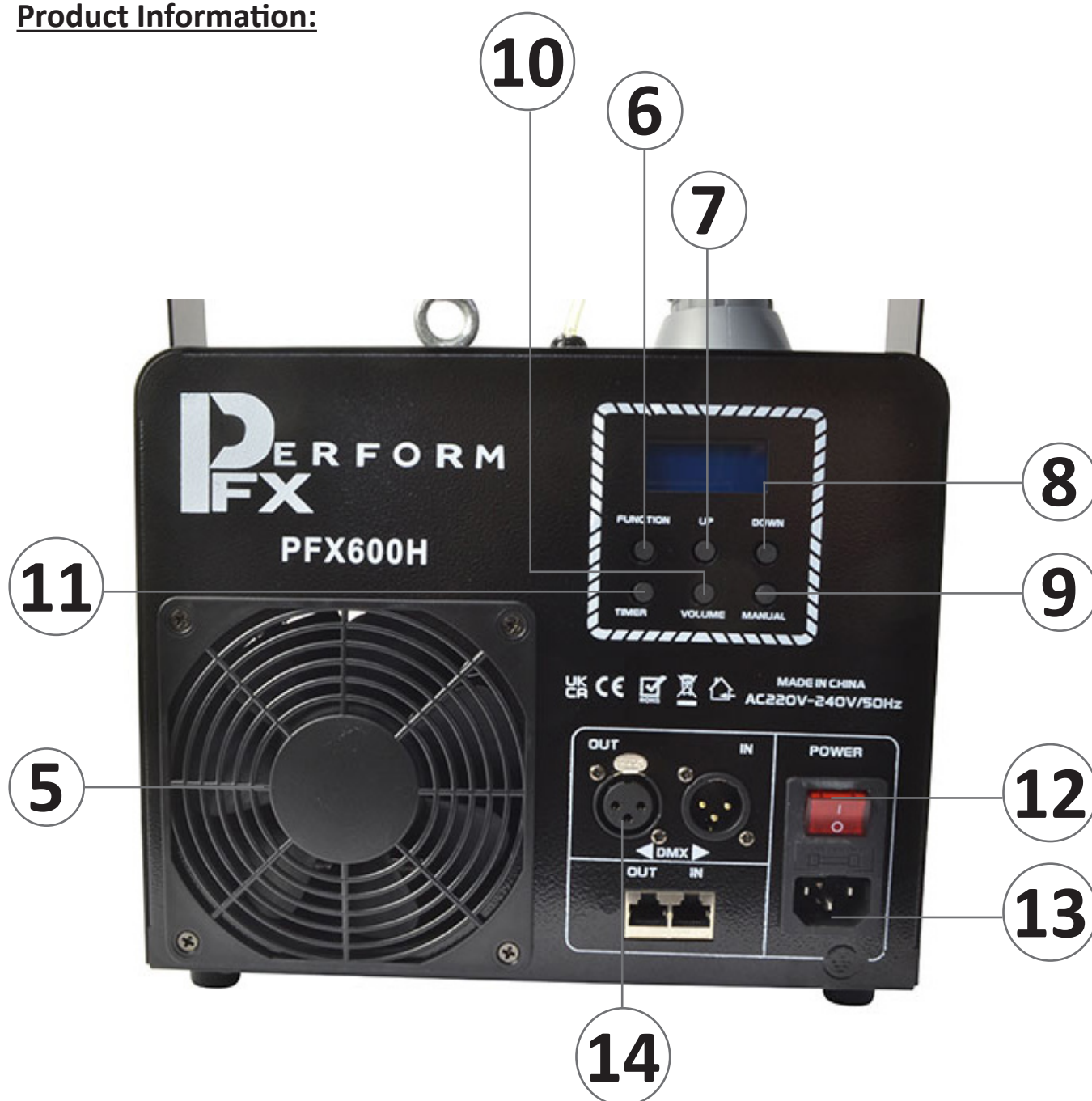
- A 600 Watt Heater
- 1L Fluid Tank
- Uses water-based haze fluid
- Self-cleaning function
- DMX controllability, 3 channels of control
- Adjustable fan speed

Product Information:



	Name	Use
1	Hanging Bracket	Used to hang the haze machine on truss.
2	Eye Bolt	Used to offer secondary safety support for wires.
3	Fluid Bottle	Fill this bottle with water-based haze fluid.
4	Adjustable Output Flap	Used to adjust the haze direction.

Product Information:



	Name	Use
5	Fan	Helps disperse the haze.
6	Function Button	Used to select the settings of the haze machine.
7	Up Button	Used to adjust the settings of the haze machine.
8	Down Button	Used to adjust the settings of the haze machine.
9	Manual Button	Used to output haze at 100% whilst the button is pressed down.
10	Volume Button	Used to output haze continuously with control over fan and volume. Use the function button to select volume or fan and the up and down buttons to adjust the volume or fan.
11	Timer Button	Used to start the timer function. Interval, volume and duration adjusted via the function button.
12	Power Switch	Used to switch the haze machine on and off.
13	IEC Input	Supplies mains to the unit.
14	DMX Input/ Output Sockets	Connection to a DMX controller.

Function Menu Settings:

Ready:

This message will show as soon as the Haze Machine is ready to be used.
Ideal working temperature is reached after about 1 minute.

Function Button Menu:

Function Button		
DMX	1-512	Adjust to set in DMX address
Vol Set	5-100	Adjust to set the output volume
Fan Set	5-100	Adjust to set fan speed
Dur Set	3-250	Adjust to set the timer duration
Int Set	5-250	Adjust to set the timer interval
Wireless No.	0/1/2/3/4	Select to use all remote buttons or just one

Set DMX Address:

Press Function button (6). DMX will be displayed, use up (7) and down (8) button to set an address.

Channel	Volume	Function
1	0-127	Off
	128-255	On
2	0-255	Haze Volume
3	0-255	Fan Speed

Set Fan Speed:

Press Function button (6) until 'FAN SET' is displayed. Use the up (7) and down (8) buttons to adjust the fan output. This works for timer volume and manual mode.

Using Timer Mode:

Press the Function button (6) until 'VOL SET' is displayed. Use the up (7) and down (8) buttons to adjust the output volume.

Press the Function button until 'DUR SET' is displayed, use the up (7) and down (8) buttons to adjust the duration.

Press the Function button until 'INT SET' is displayed, use the up (7) and down (8) buttons to adjust the interval. Press the timer button (11). The haze machine will output according to the settings.

Using the Wireless Remote:

Make sure a battery has been installed and is the correct way around.

Use any button on the remote to activate the output. Once activated, the user can adjust the output volume and fan speed by using the function button (6) to select FAN or VOL.

Use the up (7) and down (8) buttons to adjust the FAN and VOL settings.

Press the remote button again to stop the output.

The user can programme the remote to work off of one button only. This is useful if multiple units need to be used at different times.

Press the Function button (6) until WIRELESS NO. is displayed, using the up (7) and down (8) button, select 0-4. If '0' is set, the remote will work on all 4 buttons.

Continuous Output (Volume Button):

Press the Volume button (10) and the haze machine will produce smoke.

The user can adjust volume and fan speed using the function button (6), up (7) and down (8) buttons.

Manual Output (Manual Button):

Press the manual button (9). The haze machine will output at 100% whilst the user holds the manual button down.

Note:

The PFX600H has a self cleaning function. This function blows the remaining liquid through the heater. This lasts for 1 minute after every use and prolongs the life of the heater.

Maintenance:

Do not allow liquid to become contaminated. Always replace the cap on the liquid container immediately after filling. After every 40 hours of operation, or if the unit is not to be used for one month, it is recommended to run a cleaning solution (20% clear vinegar and 80% distilled water) through the system to prevent clogging in the heater. This should be carried out in a well-ventilated room. Snow machines do not need vinegar, just 100% distilled water.

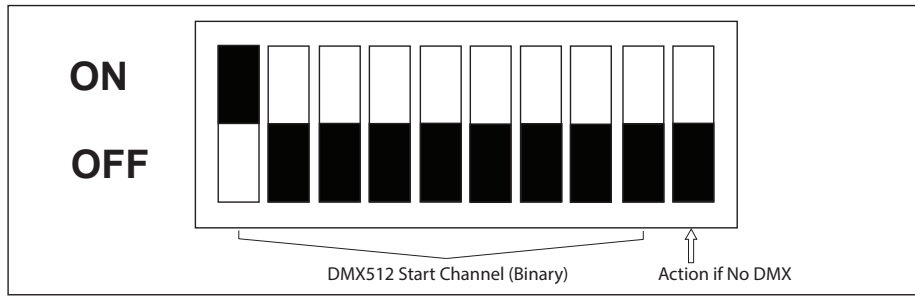
DMX Basics:

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 and 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 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 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 system address ranges from 1-512. Alternatively, it may be controlled by a row of small switches, called dip switches; on this type of system, the required address is then converted to a binary number.

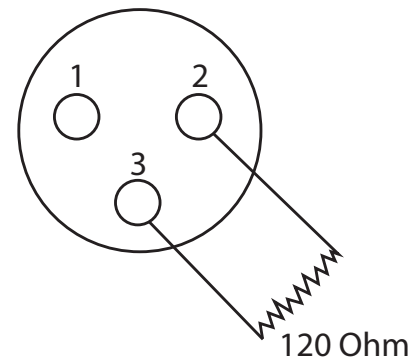


To work out your dip switch settings you can simply download a DMX calculator from the internet. The order in which fixtures are connected in a DMX line does not influence the DMX address, a fixture set to DMX address 1 can be put in a DMX line anywhere from beginning, middle to end. As long as it has its address set to 1, it knows to take information from that point onward.

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

DMX Wiring and Connections:

3 pin DMX wiring is more common, although using a 5 pin connector is better to stop confusion with audio leads. With 5 pin connections, not all pins are used, though it is worth checking your manual for your fixture, as some lights use the unused pins for low voltage control. To avoid erratic behaviour from your fixture, ensure when making cables, you always use suitable DMX cables and do not connect pin 1 GND to the outer casing of the connector (as you may do with your audio cables). Do not make “Y” leads to split cable fixtures; always use the in and out sockets or a DMX splitter.

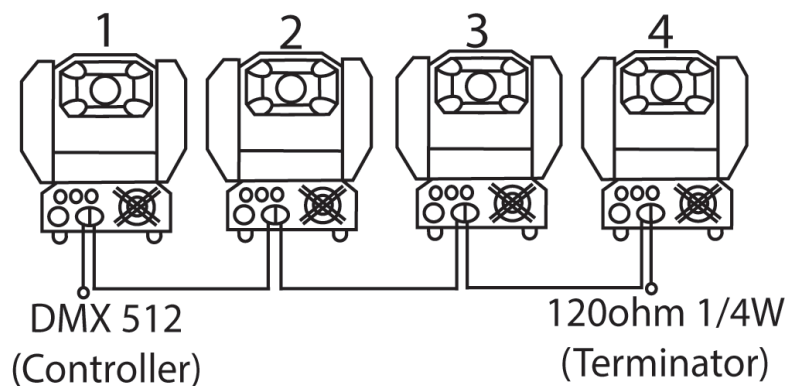








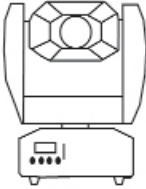
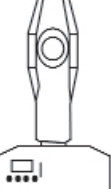










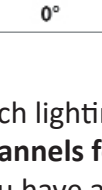
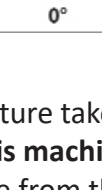













































We also recommend you put a DMX terminator in any fixture which does not have a DMX lead connected from the output socket to another fixture; to reduce unexpected behaviour. A DMX terminator is simply a male XLR plug with 120 Ohms, ¼ watt resistor, soldered across pins 2 and 3.

You can also buy these pre-made.

Example of a DMX Line

Example of a DMX Fixture with 5 Channels:



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

Each lighting fixture takes up 5 DMX Channels, **your PFX600H takes two channels, so just step on two channels for this machine.**

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 dipswitch number 1 on

Fixture 2 would be set to DMX address: 6 dipswitch number 2 & 3 on

Fixture 3 would be set to DMX address: 11 dipswitch numbers 1, 2 & 4 on

Figure 4 would be set to DMX address: 16 dipswitch number 5 on.

You can include your fog machine anywhere on this chain.

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

When setting your DMX address, you must ensure fixtures do not overlap from one to the next.

You can set 2 fixtures to the same address, as long as they are the same fixture (i.e. same channel layout), then they will do the same as each other.

**Thank you for taking the time to read this information.
For further information, please contact sales@terralec.com or visit
www.terralec.co.uk**