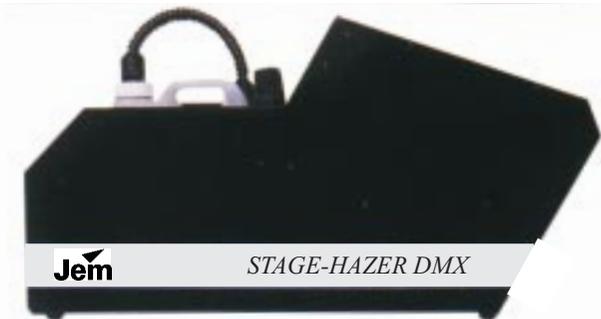


# *USER GUIDE*

VERSION 1.3

**Jem**



# *STAGE-HAZER DMX*

MARTIN MANUFACTURING (UK) PLC

**Jem**

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**Fluids Suitable For This Machine:**



*Note:  
The JEM warranty will be void if any fluid other than JEM approved fluid is used. If other fluids are used there could be serious damage to the machine and the fluid may not have been tested for use in public areas.*

**How To Contact Us**

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Notes

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*Note:*

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## **Introduction**

The STAGE-HAZER is a brand new machine from JEM which has been designed to produce a perfect translucent environment for today's intelligent lighting effects.

Furthermore, this unique design is guaranteed to give the user maximum reliability thanks to features such as the "Low fluid cut off system", which protects the pump in the event of running the machine dry.

Creating the perfect ambient haze relies heavily on the correct particle size and dispersion. The STAGE-HAZER produces this by vapourising the special working fluid at very precise temperature in a high mass heater block which contains a copperous helicoil of 3 metres length.

The product of this process is injected into the uniquely designed JEM "Dispersal Chamber" where it is mixed with a turbulent airflow and projected from the machine as an optically translucent haze at 1200 ft / minute (exit velocity).

JEM has also used the "DTP" safety device, as used on the ZR12, ZR22 and Techno-Fog to ensure the best possible overheat protection.

## **Features:**

- DMX 512
- "DTP" Safety system
- SMD electronics
- Low fluid cut off system
- Variable output remote
- 9.5 Litre fluid capacity
- Dispersal chamber
- 2 x High power Fan

## **Notes**

**Trouble Shooting**

<b><u>SYMPTOM</u></b>	<b><u>CAUSE</u></b>	<b><u>CURE</u></b>
The mains switch does not light when I switch on.	Main fuse blown.. No power connected.	Check main fuse. Check power is connected.
The power LED does not light on the remote control.	Fuse on main PCB blown. Remote control not connected.	Check fuse on Main PCB. Check connection of remote control.
The ready LED does not light. even after 15 minutes.	Thermocouple fault Thermal trip fault	Contact your Distributor.
No haze output.	Low fluid level. No fluid in container.	Check fluid level LED. Replenish fluid container.

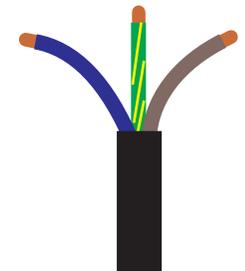
**Safety**

- Always use a JEM approved fluid, other fluids could be dangerous and could cause damage to the machine.
- Always check the voltage is correct for use with the machine, the voltage setting is printed on the serial label.
- Always read the user guide before operating the machine, smoke machines need to be operated carefully to avoid risk.
- Do not remove the cover or attempt to repair a faulty machine, an authorized JEM dealer should be contacted in the event of a faulty machine.
- Always use smoke machines in well ventilated areas, over use could affect sufferers of asthma or other chest conditions.
- Do not use the machine if there is a faulty mains lead or plug this could be dangerous.
- Do not spill fluid over the machine, if fluid is spilt clean with clean water and contact an approved JEM dealer for advice.

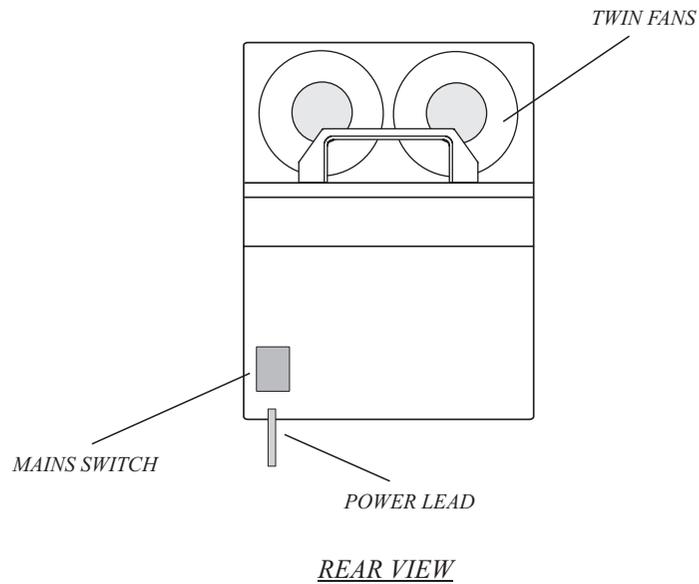
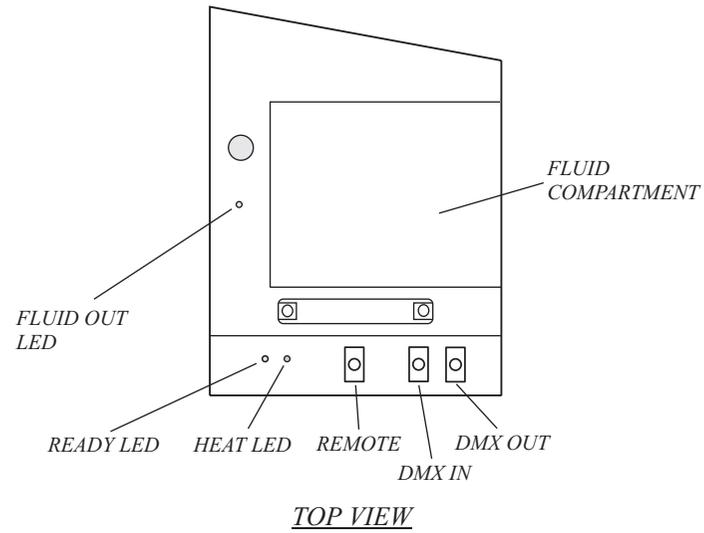
**Mains Lead Wiring Instructions**

Brown = Live  
Blue = Neutral  
Green/Yellow = Earth

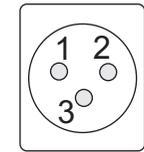
**Note! This Appliance must be earthed**



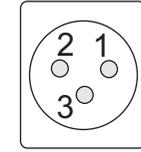
**Machine Layout**



**DMX Connections**



**DMX IN**



**DMX OUT**

***PIN***

- 1
- 2
- 3

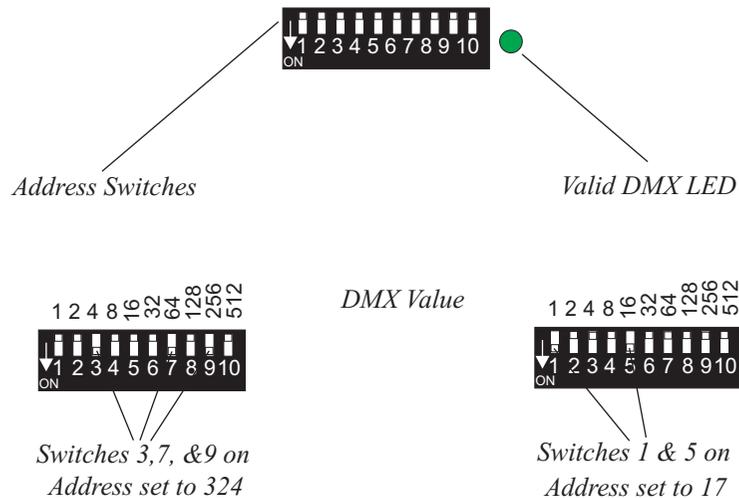
***FUNCTION***

- Ground
- DMX Data -ve
- DMX Data +ve

### Using DMX 512

DMX 512 is an industry standard and the STAGE-HAZER is fitted with an interface as standard. This gives the user the option of linking the smoke machines into the lighting chain and controlling them from a single source. The STAGE-HAZER uses a single channel to fire and control the output level, the interface can be addressed from channel 1 up to channel 512. The address is set using the 10 way dip switch at the rear of the machine. To address the channel, convert the channel number to binary and set this number on the switches (on is down). There are some samples of different channel settings below.

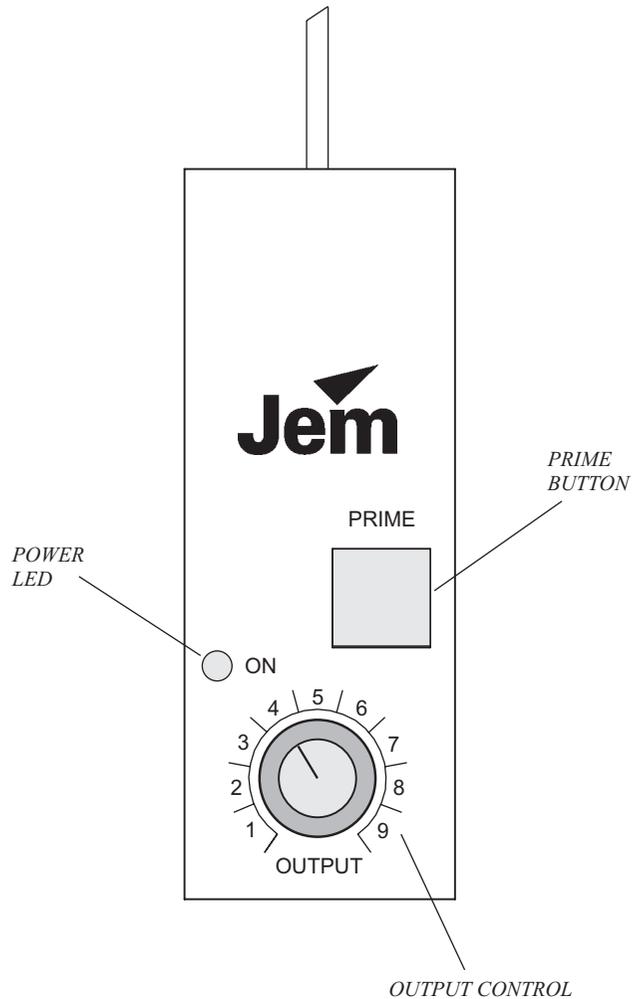
The STAGE-HAZER is fitted with two XLR sockets for DMX, one is for DMX IN & one is for DMX OUT; this enables the STAGE-HAZER to be used in a chain. When there is valid DMX, i.e. the XLR is connected and the desk is powered, the small green LED will light indicating there is DMX connected to the machine. However, if there is no address set, the LED will not light and DMX will be disabled. If an address is set and DMX is present the machine will automatically start to heat up and after approximately 8 minutes you will be able to operate the machine using DMX. Increasing the DMX level will increase the smoke output level.



### Getting Started

- Once you have selected the best position for the STAGE-HAZER you can begin to use the machine. First check the power supply you have is correct for the machine. If it is, you can connect to the power supply and switch the mains switch on at the rear of the machine; the machine will start to heat up and the fan will run. It will take approximately 8 minutes for the machine to reach working temperature. While it heats up you should check the level in the fluid container; the container can hold up to 9.5 litres of fluid. The machine may not heat if there is inadequate fluid in the container (the red 'fluid out' LED must not be on).
- When the machine has reached working temperature the green "ready" LED will light on the top of the machine and the machine can now be operated. Press the prime button until haze appears from the output; the pump is now primed. This will only have to be done if the fluid lines have become empty. The output can now be set to the desired level by turning the "output" knob.
- When you have finished using the machine you should turn the mains switch off. If any problems occur when operating the STAGE-HAZER please refer to the trouble shooting guide.

### Using The Remote Control



*The Technohaze comes with a compact remote allowing the user to prime the pump and control the output level.*

### Remote Control Functions

- **OUTPUT LEVEL CONTROL:** When starting the machine for the first time, use the prime button as described on page 5 para 2. During normal operation, the output control should be set between 4 and 10. Use the control to give the output density you require. Setting the level control to minimum will switch off the output
- **POWER LED:** This indicates that the machine is powered and that the remote is connected.