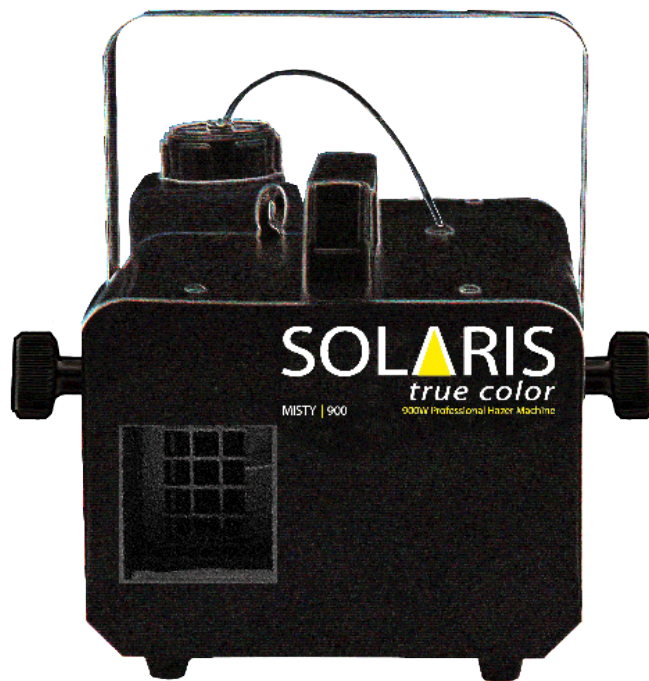


SOLARIS

true color



MISTY | 900

900W professional hazer machine

USER MANUAL

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SAFETY INFORMATION



WARNING!

Read the safety precautions in this manual before installing operating or servicing this product.

  <p>SAFETY NOTES</p>	<p>Read all the following Safety Notes before working with this product. These notes include important information about the installation, usage, and maintenance of this product.</p> <p>This product contains no user-serviceable parts. Any reference to servicing in this User Manual will only apply to properly trained GLOW® Professional certified technicians. Do not open the housing or attempt any repairs.</p> <p>All applicable local codes and regulations apply to proper installation of this product.</p>
<p>PERSONAL SAFETY</p>	<ul style="list-style-type: none"> · Always disconnect this product from its power source before servicing. · Always connect this product to a grounded circuit to avoid the risk of electrocution. · Do not touch this product's housing during operation because it may be very hot.
<p>MOUNTING & RIGGING</p>	<ul style="list-style-type: none"> · This product is for indoor use only! To prevent risk of fire or shock, do not expose this product to rain or moisture. (IP20) · Mount this product in a location with adequate ventilation, at least 20 in (50 cm) from adjacent surfaces. · Make sure there are no flammable materials close to this product while it is operating. · Always carry this product by the handles. Do not carry from the head. · When hanging this product, always secure to a fastening device using a safety cable.

<p>POWER & WIRING</p>	<ul style="list-style-type: none"> · Always make sure you are connecting this product to the proper voltage in accordance with the specifications in this manual or on the product's specification label. · Never connect this product to a dimmer pack or any rheo-stat.
<p>OPERATION</p>	<ul style="list-style-type: none"> · Do not operate this product if you see damage to the housing, tubes, LED lights or cables. Have the damaged parts replaced by an authorized technician at once. · Do not cover the ventilation slots when operating to avoid internal overheating. · The maximum ambient temperature is 120 °F (49 °C). Do not operate this product at a higher temperature. · In case of a serious operating problem, stop using this product immediately

In the unlikely event that your GLOW® product may require service, contact GLOW® Technical Support.

INTRODUCTION

The SOLARIS® Professional MISTY 900™ is a high-performance 900W Hazer Machine. A compact and quiet operation makes it ideal for Venue Installations, Theatrical, Cinema, TV and Stage Use.

The Unit is deemed for efficiency of getting even atmospheric spread of haze even in big halls and windy weather.

This Unit offers a variety of operation modes, it can be controlled using any DMX compliant controller (1 Channel Mode) as well as automatic operation mode , Remote Control mode and manual mode.

BEFORE USING THE PRODUCT FOR THE FIRST TIME

1. Read 'Safety information' on page 3 before installing, operating or servicing the unit.
2. Unpack and ensure that there is no transportation damage before using the fixture. Never attempt to operate a damaged unit.
3. If the fixture is not going to be hard-wired to a mains supply, attach a local power plug to the end of the supplied power cable.
4. Before operating, ensure that the voltage and frequency of the power supply match the power requirements of the fixture.
5. Refer to the GLOW® website for the most recent user documentation and technical information about this fixture.

INSTALLATION



WARNING! READ SAFETY INFORMATION ON PAGE 3 BEFORE INSTALLING THE FIXTURE.



The unit is designed for indoor use only and must be used in a dry location with adequate ventilation. Ensure that none of the unit's ventilation slots are blocked and ensure that the unit is fastened to a secure structure or surface.

FASTENING THE UNIT TO A FLAT SURFACE

The unit can be fastened to a hard, fixed, flat surface that is oriented at any angle. Ensure that the surface and all fasteners used can support at least 10 times the weight of all fixtures and equipment they will support. Fasten the unit Securely. Do not place it on a surface or leave it where it can be moved or fall over. If you install the unit in a location where it may cause injury or damage if it falls, secure it as directed below with a securely anchored safety cable that will hold the unit if the primary fastening method fails.

MOUNTING THE FIXTURE ON A TRUSS

The unit can be clamped to a truss or similar rigging structure in any orientation. Install the unit hanging vertically down, use an open-type clamp such as a G-clamp. To clamp the unit to a truss:

1. Check that the rigging structure can support at least 10 times the weight of all fixtures and equipment to be installed on it.
2. Block access under the work area.
3. Working from a stable platform, hang the unit on the truss and fasten the rigging clamps onto the truss.
4. Secure the unit with a safety cable as directed below.
5. Check that the machine's body will not collide with other units or objects.



SECURING WITH A SAFETY CABLE

Secure the unit with a safety cable (or other secondary attachment) that is approved for the weight of the unit so that the safety cable will hold the unit if a primary attachment fails. Loop the safety cable through and around a secure metal anchoring point.

AC POWER



Warning! Read 'Safety information' on page 3 before connecting the unit to AC mains power.



For protection from electric shock, the unit must be grounded (earthed). The power distribution circuit must be equipped with a fuse or circuit breaker and ground-fault (earth-fault) protection.

Socket outlets or external power switches used to supply the unit with power must be located near the unit and easily accessible so that the unit can easily be disconnected from power.

Do not insert or remove power cable to apply or cut power, as this may cause arcing at the terminals that will damage the connectors.

Do not use an external dimming system to supply power to the unit, as this may cause damage to the unit that is not covered by the product warranty.

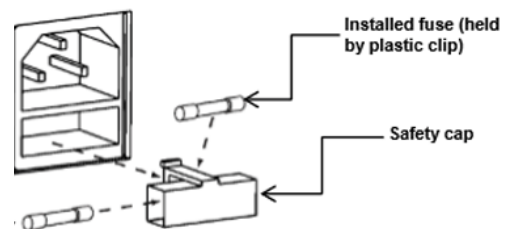
The unit can be hard-wired to a building electrical installation if you want to install it permanently, or a power plug (not supplied) that is suitable for the local power outlets can be installed on the power cable.

If you replace power plug on the power cable, install a grounding type (earthed) plug with integral cable grip that is rated minimum 250 V, 5 A.

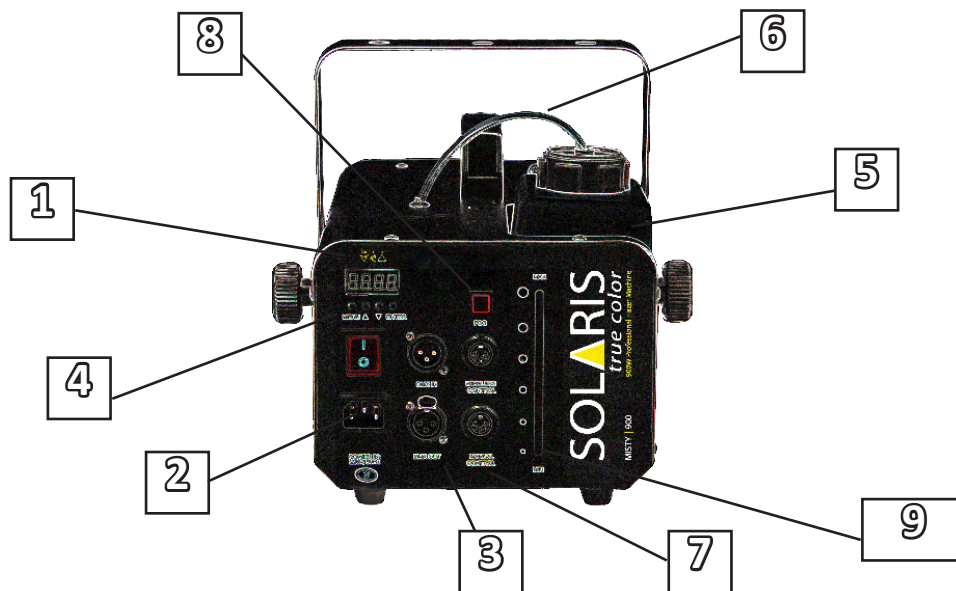
100-240 V at 50/60 Hz. Do not apply AC mains power at any other voltage or frequency to the unit.

In Case of Fuse failure It is possible to **replace the fuse**:

1. Disconnect the unit from the power supply.
2. At the bottom of the power input insertion point take out the Fuse housing using a standard tester screw driver
3. Replace the fuse with an identical fuse.
4. Insert the fuse housing back to the machine
5. Reconnect the unit to the power supply



FIXTURE OVERVIEW



1	Tokens® – symbol indicating the unit’s DMX personality, Weight and Power Supply
2	German standard Power Cable Input (Cable Included)
3	DMX data Link Input and Output XLR Connectors
4	Digital Screen for accessing menu with 4 buttons for navigation: Menu, Up, Down and Enter
5	Haze Fluid Tank
6	Haze Fluid Suction Canal
7	Manual Remote Connection Port (DIN)
8	Manual Fog Test \ Operation Button
9	LED Haze Fluid Amount Indicator



UP	Press UP to change current value
DOWN	Press DOWN to change current value
MENU	Press MENU to toggle between modes
ENTER	Use ENTER to save the parameter after you made the desires adjustments

DMX DATA LINK

A DMX 512 data link is required in order to control the machine via DMX. The Misty 900® has 3-pin XLR connectors for DMX data input and output. The number of daisy-chained fixtures is limited by the number of DMX channels required by the machine (1 dmx channel) in relation to the maximum 512 channels available in one DMX universe. Note that if independent control of each machine is required, it must have its own DMX channels.

Fixtures that are required to behave identically can share the same DMX address and channels. To add more fixtures or groups of fixtures when the above limit is reached, add a DMX universe and another daisy-chained link.

CONNECTING AND USING DMX DATA LINK

TO CONNECT THE FIXTURE TO DATA:

1. Connect the DMX data output from the controller to the machine's male XLR DMX input connector.
2. Connect the DMX output to the DMX input of the next fixture and continue connecting fixtures output to input.

FLUID TANK INDICATOR LEDS

Indicator LEDs show the status of the fill tank as follows:

1. **RED**- The machine is warming up
2. **BLUE**- The hazer is ready
3. **FLASHING BLUE** - The fluid tank requires refilling

NOTE: The Misty 900® may be operational while warming up and emit bursts of haze while resetting itself. or while the heater is warming up. It is a standard operation.



FIXTURE OPERATION

This section explains the unit settings and utilities that the user has access to when using the control panel. Settings are retained when the fixture is powered off.

The SOLARIS® MISTY 900® can function in different modes:

DMX 1 CHANNEL MODE. When operated in DMX 1 channel mode the unit's back screen will show d001 when first accessed. By setting a value different from 001 you can change the unit's DMX address according to your lighting setup. Optional DMX address values are 1 to 512. When you reach the desired value, press ENTER to save your changes.

STANDALONE MODE which allows you to manually adjust the unit's haze emission without using DMX data link. When operated in Standalone mode the unit back screen will show either: H0 (no Emission), H1 (Low Emission), H2 (Medium Emission) or H3 (Full Emission) when first accessed. By toggling between those four options you can decide the amount of Haze output emitted from the machine. Using the UP & DOWN buttons below the screen you can scroll between those options. When you reach the desired value, press ENTER to save your changes.

You can always **CHECK THE AMBIANCE TEMPERATURE** of the unit by accessing the back screen . press the up or down button until the led screen shows "Ht". by pressing enter you will be able to see the letter H attached with a number describing the temperature of the heating body and pump.

CONTROL THE MISTY 900 USING THE INCLUDED REMOTE CONTROL - When using the control board, set HAZE output to 0. You can then connect and operate the included wired remote with the unit. For further remote operation please refer to page 11.

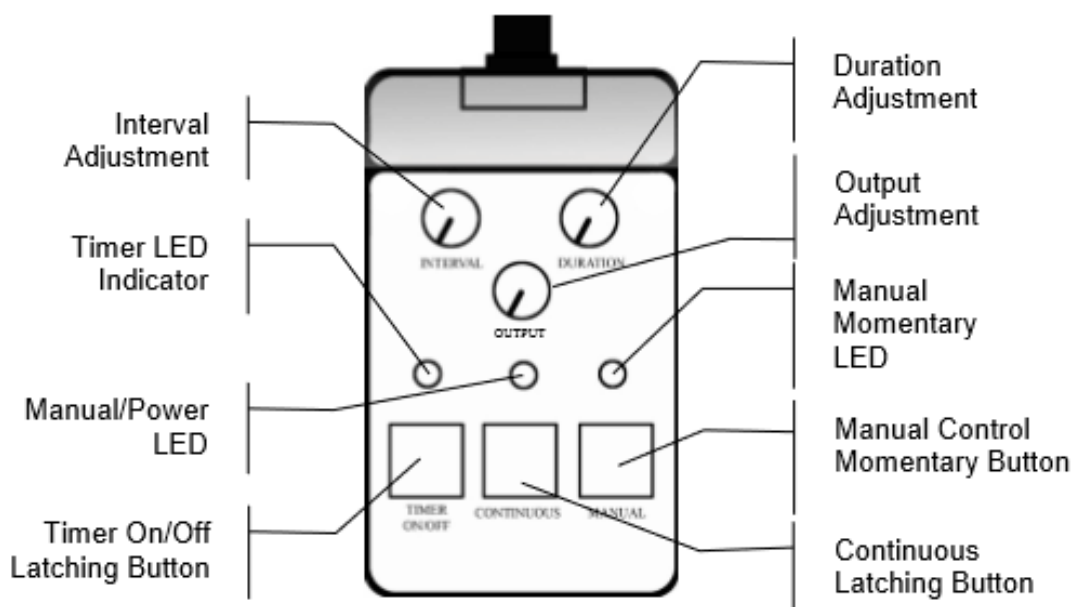
There is a basic rule of priority when operating this manual. The DMX mode has first priority and will override the remote control and manual values inserted manually by the user. the order of priority is as follows:

1. DMX
2. Controller remote
3. User parameters inserted using the digital display

CONTROLLING THE UNIT USING THE MANUAL CONTROLLER

The wired timer controller allows you to automatically trigger haze output by setting interval and duration values. Led indicator lights display the machine and controller's current state. Rotary knobs set interval and duration time parameter while manual and continuous buttons allow overriding control.

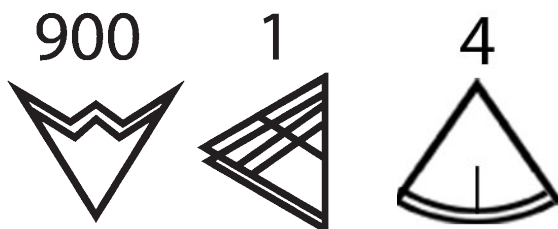
1. Plug the hazer machine to the power supply and switch the unit's power button on
2. Plug in the timer controller to the manual controller DIN socket at the back of the unit.
3. Press the **TIMER ON\OFF** latching button on the timer control. the timer led above the button will light up. The **TIMER ON\OFF** latching button will remain on until it is pressed again
4. Set the **INTERVAL \ DURATION** and **OUTPUT** adjustments knobs to the desired position:
 - **INTERVAL** knob sets the amount of seconds between operations
 - **DURATION** Knob set the length of each operation.
 - **OUTPUT** Knob will determine the Intensity of the Haze emission.
5. Press the **CONTINUOUS** latching button ant the haze machine output's haze until the button is pressed again. The **MANUAL\POWER** led indicator will light up during continuous operation
6. Press the **MANUAL** button to momentarily Output Haze. the unit will Emit haze as long as you keep this button pressed






TOKENS®

The TOKENS® are symbols we use to mark the features of our fixtures. Every Unit has its own unique set of TOKENS® according to the unit's qualities. Those marks can be especially useful and informative for the technicians using SOLARIS® products.

The TOKENS® are located above the digital screen on the back panel of the unit.



<p>900</p> 	<p>This token indicates the maximum amount of power consumption (Displays in Watts)</p>
<p>1</p> 	<p>This token indicates the possible DMX footprint (DMX Personality) of the fixture (according to the different DMX modes of operation)</p>
<p>4</p> 	<p>This token indicates the weight of the unit (Displayed in Kilograms)</p>

FIXTURE MENU STRUCTURE CHART

DISPLAY	FUNCTION	INSTRUCTIONS
d001	DMX Address	DMX512 address, 1 channel mode (001-512)
HAZe	Manual Mode	Output Emission (H0,H1,H2,H3) Low to High output
Ht	Temperature Meter	Display the Letter H and then the temperature (H___)

DMX MODES

CHANNEL	1 CHANNEL DMX MODE	FUNCTION
1	OUTPUT	LOW TO HIGH HAZE OUTPUT



MAINTENANCE



WARNING! READ 'SAFETY INFORMATION' ON PAGE 4 BEFORE SERVICING THE FIXTURE.

Refer any service operation not described in this user manual to a qualified service technician.

Disconnect the unit from mains power and allow to cool completely before cleaning or servicing. Service the unit in an area where there is no risk of injury from failing parts, tools or other materials. Excessive dust, smoke fluid, and particle buildup degrades performance, causes overheating and will damage the unit. Damage caused by inadequate cleaning or maintenance is not covered by the product warranty.

CLEANING

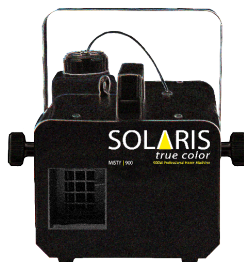
After 40 Hours of continuous operation use the SOLARIS® official cleaning fluid to clear the system of any accumulation of fluid residue matter inside the machine heating system, The recommended cleaning process should be conducted as follows:

1. Unplug the machine from the power source.
2. Empty all fog fluid from the machine.
3. Add Cleaning fluid (original SOLARIS® cleaning fluid Only) to the fluid tank.
4. Connect the unit to a power supply and allow it to warm up.
5. Run the unit in a well ventilated environment until the tank is almost empty (do not allow the pump to dry completely).
6. Refill the machine with the original SOLARIS® haze fluid. Run the machine briefly to clear any remaining practicals.
7. Clean the heater and pump of any cleaning fluid.

ADDITIONAL OPERATING NOTES

1. The Misty 900 was developed to work only with SOLARIS® Official water Based Haze Fluid. Using any other sort of liquid will cause in annulment of warranty and may cause severe damage to your product.
2. Do not operate this machine without fluid at any times
3. SOLARIS® Haze Cleaning Fluid is not to be used more than once over a period of 90 days.
4. When storing the unit for long periods it is advised to follow the cleaning instructions as described above without implementing steps 6 and 7.
5. Test run the unit once a month to achieve best performance.

MISTY 900 SPECIFICATIONS



FEATURES

Haze Emission	0-255
Control	DMX, Remote Control and Manual operating button

INSTALLATIONS

Location	Indoor Use Only, Must be fastened to surface or structure
Mounting points	Adjustable bracket with clamp insertion point 13mm
Orientation	Any

THERMAL

Cooling	Fan
Max ambient temperature	40° C (104° F)
Min Ambient temperature	-25° C (-13° F) Total
Heat Dissipation (calculated, +-10%)	1200BTU/hr.

PHYSICAL DIMENSIONS

Machine Front Width with side handles	268mm	10.55"
Side width	325mm	12.8"
Height	151mm	5.95"
Height with bracket	250mm	9.84"

WEIGHT



4Kg	8.81 lbs.
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Specifications are subject to change without notice.
For latest product specifications, see www.Glow-Lighting.com

CONTROL AND PROGRAMMING

Control System	DMX512
Settings & Addressing	USITT DMX512/1990

DMX MODES



Fixture Channel Mode	1Ch. Mode
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ELECTRICAL

AC Power	110-230V 50\60Hz
Fuse	T5A
Power Supply	Auto Ranging Electronic Switch Mode

MAX POWER CONSUMPTION



Power consumption	900W
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CONSTRUCTION

Color	Black
IP Rating	IP20

CONNECTIONS

AC Power Input	German standard Power cable (included)
DMX512 Data	3-pin locking XLR, 1 Input, 1 Output

INCLUDED ITEMS

Power Cable 3 ft.
Manual Control Remote
Hanging Bracket

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