

ALURA

WSM 01 MKII

DMX fog machine



User manual

Safety precautions

WARNING: This unit may cause serious injury when used incorrect. It therefore is strongly advised to read this user manual carefully, to get familiar with the functions of this device.

WARNING: This unit must be operated by, or under continuous supervision of an adult. This device is not suitable for children. Keep the machine out of reach while using it amongst children.

WARNING: This device operates under high temperatures. Do not touch the fog machine while active or directly after use. Do not block the fog exit with your hands. Incorrect use may cause serious first or second degree burns.

WARNING: A cooling down time of 20 minutes is obligatory after use, to cool down the housing and internal components.

WARNING: Do not physically move the machine while in use.

IMPORTANT: It is possible that small amounts of fog are produced during the warming-up time and after use.

Installation requirements:

- Always check the power supply you want to connect the device to. If the voltage requirements do not meet, do not connect the device as this may cause serious damage.
- This device must be installed by a professional technician, in a standing or hanging position. Always pay attention to the positioning of the unit, as the housing and produced fog can reach high temperatures. Only use the included mounting bracket if you want to position the unit against a ceiling or truss system.
- Make sure there are no flammable objects in the direct environment of the device.
- Do not block the fog nozzle with your hands, objects or cloths
- Keep a minimum distance of 0.5 meter from any walls to provide sufficient cooling
- Make sure the fog nozzle is not blocked by any objects in the near environment
- Always use the included power supply. Contact your local dealer for a replacement unit if necessary.

Maintenance and protection

- Keep the unit away from dusty environments. Clean the ventilation slots with a small, soft brush and vacuum cleaner when needed. Clean the housing of the unit with a damp cloth. **WARNING:** Always disconnect the unit from the power supply when cleaning the unit. Reconnect the unit only if any moist on the fixture disappeared completely.
- Do not switch the power on and off too often, as this may cause serious damage to the unit.
- Avoid heavy shocks and collision during transport and use, as this might cause damage to the internal components.
- Keep the device away from moisture, rain, water or any liquids as this may cause a short circuit and/or electric shocks. If any liquid enters the unit, power supply or housing of the unit, disconnect the unit immediately and do not reconnect the power supply. Contact your local dealer or technician to inspect the unit for any damage. Only the liquid tank may contain liquid in the form of proper fog machine fluids.

Box contents

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- 1x WSM fog machine (WSM 01 MKII)
- 1x power cable
- 1x wired controller
- 1x receiver for wireless control
- 1x keychain wireless remote control

Unit and accessory inspection

- Always use the supplied power cable to connect the unit to a power supply. If the cable appears broken or has visible damage, do not use it.
- If the unit will not be used for a longer period of time, disconnect it from the power supply and store it in a dust-free environment.
- Always check the unit for possible damage before use. If you suspect that something is wrong with the unit, do not connect it to a power source! When you suspect that your unit is broken or damaged, contact your local dealer or a certified technician to inspect the unit.
- When your device does not generate any fog when it should, turn off the device. Do not touch the housing or fog nozzle while the machine is active or cooling down after being disconnected.

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Device overview



1. Fog machine nozzle (fog output)
2. Transport handle
3. Ventilation slots
4. Liquid hose and liquid tank cap
5. Wireless/Wired control input (IEC connector)
6. DMX dipswitch panel with indication LED
7. On/off switch
8. DMX input
9. DMX output
10. Power inlet (IEC connector)
11. Fluid level indicator
12. Receiver for wireless keychain remote (IEC connector)
13. Wireless keychain remote
14. Wired remote control (IEC connector)
15. Power cord

Setting up the unit

To make sure that you use this machine as intended, Ayra recommends to follow the steps described below.

Liquid

Before turning on the machine, make sure there is enough fog liquid in the tank. This machine accepts most fog liquids and various densities for light or heavy fog. Ayra recommends to use Ayra fog liquid or JEM fluids as these give the best results. Proper fog liquid leaves less residue, is more efficient/economical and creates almost odorless fog.

The liquid tank of your WSM device has a volume of approximately 1,8 liters. Fill the tank for approximately $\frac{3}{4}$ of its capacity. Overfilling the tank may cause the liquid to spill during transport, because of shocks, impact and tilting of the machine. Fluid consumption depends on the type of fluid, the amount of fog that you wish to create and the timespan of use.

Positioning

The WSM01 MKII fog machines is designed for use on a stable platform. It can be positioned on a floor, DJ-booth or bar. However, Ayra does not recommend placing the machine near audience because of the high temperature of the fog at short distance.

WARNING: Do not position this machine directly next to or above your audience. It is possible that small drops of heated fog liquid are generated and projected by the fog nozzle, which may cause injury. Ayra is not responsible for any damage or injuries caused by improper use of this device.

WARNING: When using this machine positioned on the floor, keep it out of reach of children. When used among children, this machine must be operated by and under continuous supervision of an adult.

Control

The WSM fog machines are controllable in several ways. You are able to use the included wired remote, the included wireless keychain remote or you can control the device with a DMX controller (not included).

Wired remote

Connect this controller to your fog machine with the IEC connectors. Do not mix up the power cord and the wired remote for your own safety. The wired controller can only be connected in one way.

When the machine is ready (indicated by LEDs), it is possible to activate the fog machine with the red button.

The fog machine output, when controlled by the wired remote, is only 0 or 100%. Variable fog output is not possible.

Wireless keychain remote

The wireless keychain remote is compact and gives you flexibility. It operates under a range of max. 25 meters, if not obstructed by objects or walls. To use the wireless keychain remote, connect the receiver to your fog machine using the IEC connector. The receiver has a magnetic strip and sticks to the housing of the device. The keychain has a protective cover, making it impossible to press buttons while you aren't using the remote. The cover slides down easily, granting access to the LED and buttons. When pressing a button,



the LED will be lit, indicating that a signal is being sent to the receiver.

The keychain remote has an expandable three-stage antenna to improve the range and signal transmission. To replace the internal battery, remove the three screws on the rear.

DMX control

When you are already in the possession of a DMX-controller, it is possible to integrate the WSM fog machine in your light show. The output of the fog machine can be adjusted with one DMX channel, from 0 to 100%.

For optimal use of the fog machine on DMX, some basic knowledge is needed. Contact your local dealer for more information.

Connect the fog machine to your DMX-controller, using standard XLR male to XLR female cables.

Select the correct DMX starting address by using the dipswitch panel just above the XLR-connectors.

The dipswitch value is stated just above the panel. By adding several values you are able to make combinations to reach the desired DMX value between 1 and 256. For example, if you wish to set the device to channel 17, you need to select dipswitch 1 + 5.

A status LED is provided, indicating that the machine receives DMX-signal from your controller.

Turning on the machine

Turn on the ON/OFF switch on the rear of the machine. When doing so, you will not have instant smoke as the internal heating element needs to reach a certain temperature. The machine has a built-in indication LED, which projects on the liquid tank. This way you can see the tank light up when the fog machine is ready (indicated with a green LED).

Projecting fog

After +/- 30 seconds (depends on the output volume) the fog machine will stop its output to reheat the internal heating element. A built-in thermostat keeps the heating element on a proper temperature. During the reheating time, the fog machine can not be used to project any fog.



Maintenance

Cleaning

Make sure to clean the exterior of the unit frequently, as the build-up of dust and dirt may have negative influence on the cooling and optics of the fixture.

The exterior of the unit can be cleaned with a damp cloth. Allow some time for the machine to dry before you use it again.

Clean the cooling vents with a small brush, while using vacuum cleaner suction to remove any loosening dust and/or dirt.

Clean the exterior of this fixture once a month. When using this fixture intensively, the frequency of maintenance needs to be increased.

Transport

When using this fixture in mobile setups, provide sufficient protection during transport. Use the original packaging of this unit, or use a professional flightcase with proper foam inlay. This way the electronics, optics and housing are protected against severe shocks, exterior damage and failing electronics.

Make sure that the machine is being transported with the right side up, to prevent liquid spills. When this can not be guaranteed, empty the liquid tank.

Make sure that the machine cools down properly to room temperature. It is possible that some small fog bursts are visible directly after use. Allow the machine to cool down for at least 20 minutes. Do not touch the housing before this time to prevent any burns.

Replacing the internal fuse

Always check your power supply for faults before changing the internal fuse. When you suspect that the fuse is broken, remove the fuse cover, located next to the power inlet.

WARNING: Always disconnect the fixture from your wall outlet or any other power supply to prevent electric shocks.

Always replace a broken fuse with a new fuse with the same type and rating. When the fuse is replaced, always close the fuse-cover. Reconnect the fixture to your power supply to see if the problem is solved. When this does not solve your problem, contact your local dealer for help.

Spare parts

This unit has no user serviceable parts inside. When any damage to internal components occur, contact your local dealer or a specialized technician in order to repair the fixture.

Checkup

To prevent dangerous situations, make sure your fixture is in optimal condition before you use it.

Check your fixture frequently for the following points:

- All screws must be mounted tightly.
- Check all screws and metal parts for corrosion. No visible corrosion should be present.
- The exterior of your fixture must be in optimal condition. Check your fixture for dents, cracks or missing parts.
- Your installation spot must be in optimal condition. Check your installation spot for corrosion, cracks, dents and strength.
- Electrical components (connectors and cables) must be in optimal condition. Any form of damage (cuts, exposed wire cores or any other visual deformities) must be prevented.

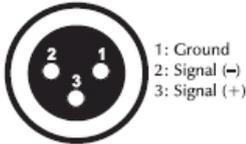
If any visual or mechanical damage is detected, contact your local dealer or a specialized technician. Do not use the fixture when damage or failure is discovered.

Connectors and wiring schematics:

DMX-connections:

DMX-output

XLR mounting-socket:



DMX-input

XLR mounting-plug:



Electrical wiring:

Cable	Pin	International
Brown	Live	L
Blue	Neutral	N
Yellow/Green	Earth	

Clogged system

It is possible that the fog output of your machine decreases over time. This may be caused by a congestion in the fluid pump system.

To solve this, you have to follow the steps described below first. Do not use special fog machine cleaning solutions first, as these are the last expedients to save your fog machine.

- If there is any fog liquid left in your tank, remove it from the tank.
- Fill the fluid tank with demineralised/distilled water. You can buy this at your local supermarket, drugstore, DIY-store, etc.
- WARNING:** Never use tap or normal bottled water as this contains chalk. This may clog your system, causing permanent damage. Warranty is void when traces of chalk are found in the pump or pipes of the system.
- Fill the tank approximately for ¾ of its capacity with demineralised/distilled water.
- Turn on the machine and let the heating process take place.
- When your fog machine is ready, let the machine work at 100% output, continuously. This can be done through DMX or with one of the included remotes.
- You will notice that the first couple of output-bursts the machine mainly produces fog. This is caused due to the fog liquid that is still inside the pipes of the heating system. After several minutes you will notice that the fog output smoothly transforms into a light steam solution. This means that the demineralised or distilled water has been pumped around the machine.
- Let the machine perform at full output for approximately 20 minutes, to make sure any internal dirt is removed when possible.
- Turn off the machine and let it cool down. Remove the demineralised/distilled water from the tank.
- IMPORTANT:** You can save the demineralised/distilled water that was not used, but only use it again for fog machine cleaning purposes, as traces of fog liquid have mixed with the water inside the tank.

NOTE: When the machine will not be used in the near future, you may leave the tank empty. The demineralised/distilled water will stay inside the machine, which is harmless.

- Fill the machine with fog liquid and turn it back on. Let the heating process take place. When the fog machine is ready, let it perform at 100% output. You will notice that the machine produces steam, which will smoothly transform into fog as the fog liquid is pumped through the system.

Technical specifications

- 900 Watt DMX fog machine
- 30DCB pump
- 900 Watt heating element
- fog machine status indication LED, projects on the tank, making it glow in the dark
- output distance: +/- 4m
- DMX control with 1 channel (0-100%)
- wireless control: keychain remote + magnetic receiver (100%)
- wired remote with one-button control (100%)
- cable length wired remote: +/- 7m
- warm-up time: 7 minutes
- tank capacity: 1.8l
- fog projection per minute: 125 m³
- power requirements: 100-230V AC, 50/60 Hz
- dimensions: 400 x 250 x 300 mm
- weight: 4 kg

Connectors:

- DMX: 3p XLR male and female
- Power: IEC power connector
- Wired timer remote: 5-pin DIN

Included accessories:

- Power cable with Shucko & IEC connectors
- Wired timer remote
- Wireless keychain remote
- Receiver for wireless keychain remote

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