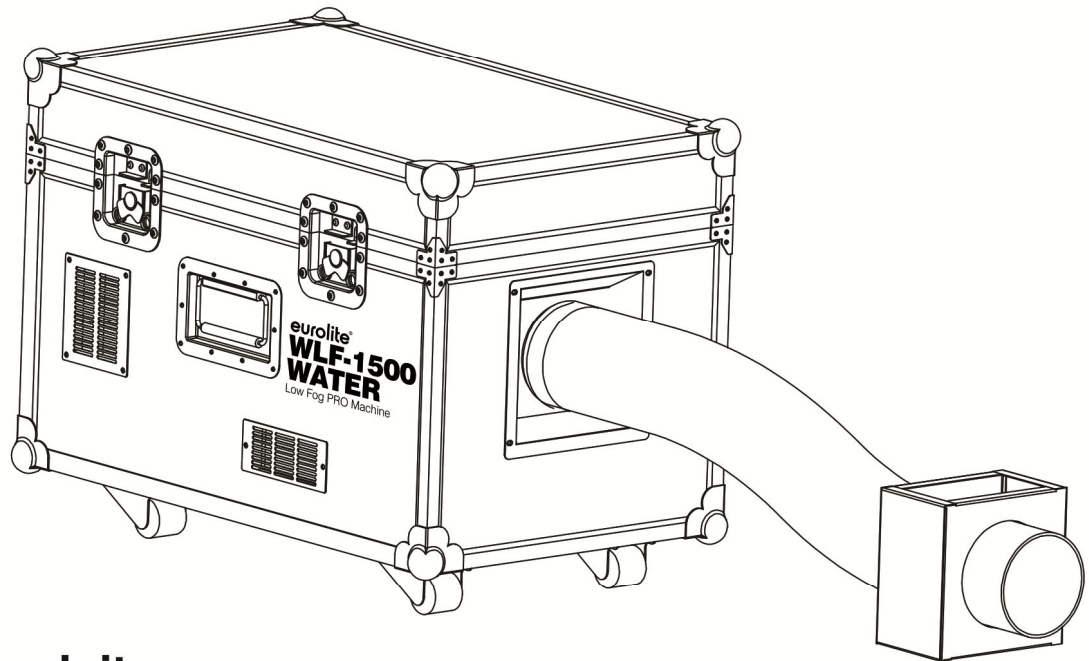


eurolite® **WLF-1500** **WATER**

Low Fog PRO Machine



Bedienungsanleitung
User Manual

eurolite®

WLF-1500 Water Low Fog PRO

DMX-Maschine im robusten Case verbaut erzeugt Bodennebel auf Wasserbasis
DMX machine installed in a sturdy case creates water-based floor fog



No. 51701993

www.eurolite.de

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For product updates, documentation, software and support please visit www.eurolite.de. You can find the latest version of this user manual in the product's download section.

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INTRODUCTION

Experience Eurolite.

Product videos, suitable accessories, firmware and software updates, documentation and the latest news about the brand. You will find this and much more on our website. You are also welcome to visit our YouTube channel and find us on Facebook.



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Welcome to Eurolite! Thank you for choosing one of our products. Eurolite is your connection to the world of show with an unparalleled variety of products, both for professionals and beginners.

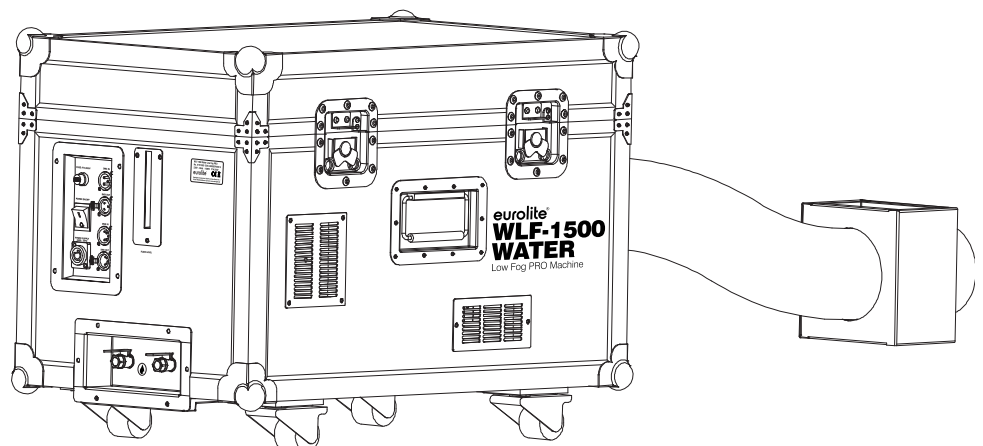
If you follow the instructions given in this manual, we are sure that you will enjoy this product for a long period of time. This user manual will show you how to install, set up and operate your new Eurolite product.

Users of this product are recommended to carefully read all warnings in order to protect yourself and others from damage. Please keep this manual for future needs and pass it on to further owners.

Product features

DMX machine installed in a sturdy case creates water-based floor fog

- High-output fog machine for clubs and stage applications
- No CO₂ or dry ice is necessary due to ultrasonic technology, therefore inexpensive to operate
- Extremely easy to handle
- Works with standard fog fluid and usual or distilled water
- Integration in a flightcase makes the machine tough, durable and easy to carry
- Inner, essential components made of stainless steel
- Concentrated and steady fog output
- Creates large quantities of heavy ground fog
- Continuous activation
- Adjustable timer with interval, duration and output volume
- Control via supplied wireless controller, DMX or integrated control module with LCD
- Temperature control via thermo switch
- Very low fluid consumption rate
- Short warm-up time
- Water drainage valve system allows for easy cleanup
- Removable tank, fluid level indicator and LED illumination
- Low fluid sensor
- DMX interface with 3- and 5-pin connectors
- Operates on with standard water-based fluid; the best effect is achieved with the EUROLITE DMS fog fluids



IMPORTANT SAFETY INSTRUCTIONS

WARNING!



Please read the safety warnings carefully and only use the product as described in this manual to avoid accidental injury or damage.

Intended use

- This fog machine creates fog by vaporizing a special fog fluid and by water atomization. This device is designed for professional use in the field of event technology, e.g. on stage.
- Only use the device according to the instructions given herein. Damages due to failure to follow these operating instructions will void the warranty! We do not assume any liability for any resulting damage.
- We do not assume any liability for material and personal damage caused by improper use or non-compliance with the safety instructions. In such cases, the warranty/guarantee will be null and void.
- Unauthorized rebuilds or modifications of the device are not permitted for reasons of safety and render the warranty invalid.

Danger due to electricity

- The device is suitable for indoor use only. Do not use it outdoors. Never expose it to rain or moisture. Do not store it in rooms exposed to moisture.
- To reduce the risk of electric shock, do not open any part of the device. There are no serviceable parts inside the device.
- Only connect the device to a properly installed mains outlet. The outlet must be protected by residual current breaker (RCD). The voltage and frequency must exactly be the same as stated on the device. If the mains cable is equipped with an earthing contact, then it must be connected to an outlet with a protective ground. Never defeat the protective ground of a mains cable. Failure to do so could result in damage to the device and possibly injure the user.
- The mains outlet must be easily accessible so that you can unplug the device quickly if need be.
- Never touch the mains plug with wet or damp hands. There is the risk of potentially fatal electric shock.
- The mains cable must not be bent or squeezed. Keep it away from hot surfaces or sharp edges.
- Never pull the mains cable to disconnect the mains plug from the mains outlet, always seize the plug.
- Unplug the device during lighting storms, when unused for long periods of time or before cleaning.
- Do not expose the device to any high temperatures, direct sunlight, dripping or splashing water, strong vibrations or heavy mechanical stress.
- Do not place any objects filled with liquids on the device.
- Do not place any open sources of fire, such as burning candles, on or directly next to the device.
- Make sure that objects cannot fall into the device, in particular metal parts.
- Only have repairs to the device or its mains cable carried out by qualified service personnel. Repairs are required when the device or the mains cable is visibly damaged, liquid has been spilled or objects have fallen into the device; when the device has been exposed to rain or moisture, has been dropped or malfunctions occur.
- Cleaning of the device is limited to the surface. Make sure that moisture does not come into contact with any areas of the terminal connections or mains voltage control parts. Only wipe off the product with a soft lint-free and moistened cloth. Never use solvents or aggressive detergents.

Danger to children and people with restricted abilities

- This product is not a toy. Keep it out of the reach of children and pets. Do not leave packaging material lying around carelessly. Never leave this device running unattended.
- This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Warning – risk of injuries

- Never drink fluid or use it on the inside or outside of a human body. If fluid gets in contact with skin or eyes, rinse thoroughly with water. If it is necessary call a doctor immediately.
- Danger of explosion! Never add flammable liquids of any kind to the fog liquid.
- Never aim the output nozzle directly at people or at open flames. Never aim the smoke at yourself, people or animals.
- Never aim the smoke at power sockets or other objects that are powered by electrical current. You could damage them or even expose yourself to hazardous electric shocks.
- Never aim the smoke at the device itself or at surfaces that are not heat resistant. Avoid direct skin contact with the smoke. Inappropriate use may cause burns due to high temperatures.
- DANGER OF BURNING! Keep minimum distance of 50 cm to nozzle! Keep device upright.
- DANGER OF CRUSHING! Please be careful when opening and closing the lid!
- Always disconnect from the mains, when the device is not in use or before cleaning it. Only handle the power cord by the plug. Never pull out the plug by tugging the power cord.
- When the fog machine is not in use for a longer period of time empty the entire fluid from the machine before storing it.
- Before filling the device disconnect from mains. Never fill in any hot liquids. Only use high-quality, water-based smoke fluid recommended by the manufacturer. Other smoke fluids may cause clogging. Always make sure there is sufficient smoke fluid in the fluid tank. Operating this smoke machine without smoke fluid will cause damage to the pump as well as over-heating of the heater.
- For commercial use the country-specific accident prevention regulations of the government safety organization for electrical facilities must be complied with at all times.

Caution – material damage

- Always make sure there is sufficient smoke fluid in the fluid tank. Operating this smoke machine without smoke fluid will cause damage to the pump as well as over-heating of the heater.
- Fill the water tanks exclusively with water.
- Secure the device against unintentional rolling away.
- After operating the fog machine, the fog fluid ways must be flushed with distilled water. When fog fluid remains in the system and the fog machine is not operated, the fluid may lead to irreversible damages! This will make the guarantee void.
- If the device has been exposed to drastic temperature fluctuation, do not switch it on immediately. The resulting condensation may destroy the device. Allow the device to reach room temperature before connecting it. Wait until the condensation has evaporated.
- Always store the device dry! Always drain the tank and please use the original packaging if the device is to be transported.
- If a serial number label is affixed to the device, do not remove the label as this would make the guarantee void.
- The operation of the device can lead to an increase in room humidity and thus possibly damage devices that are sensitive to high humidity.

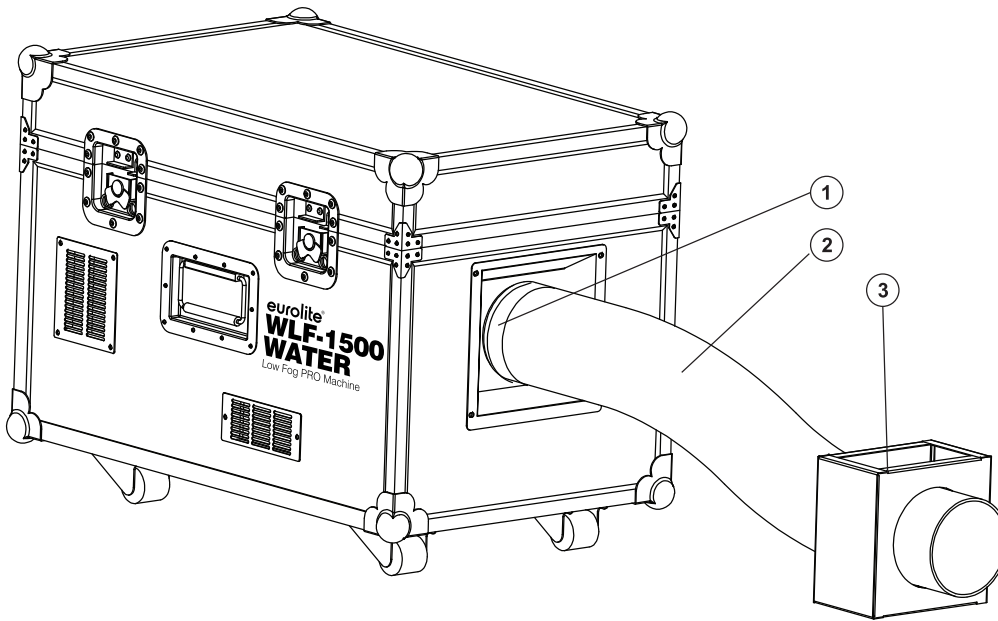
About batteries

- Do not try to short-circuit, recharge, disassemble or heat batteries (danger of explosion!).
- Remove the batteries if the device is not used for a longer period of time.
- Damaged/leaking batteries may cause harm to your skin–use safety gloves.

EU Declaration of Conformity

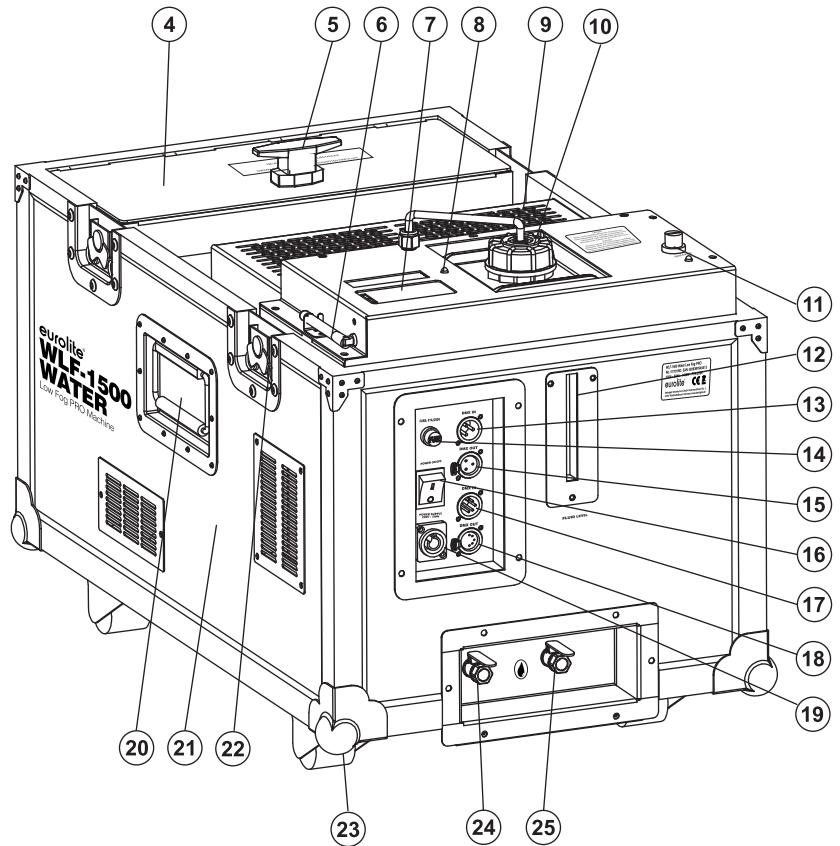
Steinigke Showtechnic GmbH hereby declares that this product WLF-1500 Water Low Fog PRO, item number 51701993 is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU. The complete Declaration of Conformity can be found under www.steinigke.de.

OPERATING ELEMENTS AND CONNECTIONS

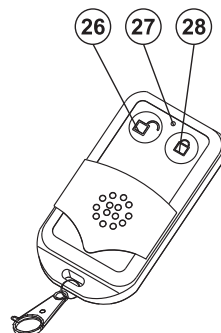


- (1) Output nozzle
- (2) Fog hose with pipe clamp
- (3) Positioning frame

- (4) Lid water tank 1
- (5) Lid latch water tank
- (6) Antenna remote control
- (7) Display and operating buttons
- (8) Water level indicator
- (9) Fan
- (10) Fluid tank
- (11) Thermal safety switch
- (12) Fluid level indicator
- (13) 3-pin DMX input
- (14) Fuse holder
- (15) 3-pin DMX output
- (16) Power switch
- (17) 5-pin DMX input
- (18) 5-pin DMX output
- (19) Power input
- (20) Carrying handle
- (21) Water tank 2
- (22) Butterfly lock for removable cover
- (23) Castor
- (24) Drain valve 2
- (25) Drain valve 1



- (26) Fog output on
- (27) Control LED
- (28) Fog output off



SETUP

Placing the unit

- Remove all packing materials from the shipping box. Make sure that there are no packing remnants at the fog output nozzle.
- Install the device in a well-ventilated area. The operation in an insufficiently ventilated room can lead to a condensation of the fog fluid. The resulting slippery surface can cause accidents.
- The operation of the device can lead to an increase in room humidity and thus possibly damage devices that are sensitive to high humidity.
- Keep a minimum distance of 20 cm around and above the device.
- Only install the fog machine on scratch resistant and water resistant surfaces (inclination angle max. 15°).
- Do not orientate the output nozzle directly in the direction of the audience's eyes. In order to create a good effect, there should be a distance between the device and the audience of at least 1.5 m.
- All fog machines develop condensation around the output nozzle. Because this may result in some moisture accumulation on the surface below the output nozzle, consider this condensation when installing your unit.
- Attach the fog hose to the output nozzle of the machine using the enclosed pipe clamp. Position the end of the fog hose in the frame supplied.
- Operate the device only in a standing, horizontal position.

Filling up fog fluid and water

WARNING!



Fluid handling

Always disconnect from the mains before filling the machine. Only use water-based fluids. We recommend high-quality Eurolite fluids. Never add flammable liquids. If fluid gets inside the machine, have it checked by skilled personnel before it is operated.

Unscrew the tank cap of the fluid tank and fill the tank with fog fluid. Tightly close the tank again. The best effect is achieved with the Eurolite Fluid listed in the accessories.

Danger of crushing! Please be careful when opening and closing the water tank lid!

Turn the lid latch of the water tank 1, open the tank and fill it up with water to the edge of the inner opening. Close the cover and lock it. Turn the unit on. Water is now automatically pumped into water tank 2. The green LED next to the display (water level indicator) indicates that there is enough water in the unit to be ready for operation.

Switch the unit off again and repeat the process until the unit stops pumping water into tank 2.

OPERATION

CAUTION!



Operating conditions

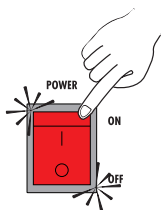
Prior to transportation, allow the machine to cool down and completely empty the tanks.

Never operate the fog machine without fog fluid. Fire hazard due to overheating! Besides, the unit may be damaged.

During operation fog emission may stop. In this case the device is heating up again. After a short period, the machine will be ready to emit fog again. This process guarantees an appropriate vaporization temperature and the best fog emission possible. The temperature is regulated by a high-quality thermostat.

The built-in control panel on the rear of the machine features four operating buttons and a display which shows all operation statuses of the machine. The control panel allows the user to customize the DMX starting address, the fluid sensor and wireless remote control. The machine can be operated manually with the button at the control panel or the remote control. Alternatively, it can be controlled with a DMX controller. DMX control has priority over the manual operation.

Switching on and off

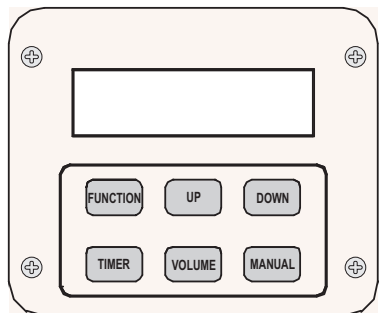


- 1 Switch on the machine with the power switch (lights up). The display shortly indicates **“WELCOME”**. Then the machine starts with the warm-up process and the display indicates **“WARMING UP”**.
- 2 While the unit is warming up, fog output will not be possible yet. Program the necessary menu settings with the control panel. Once the warm-up process is completed, fog output will be possible. The display indicates **“READY TO FOG”**. Additionally, a **“W”** for wireless and an **“S”** for fluid sensor is indicated if these functions are activated.
- 3 After operation, switch off the machine with the power switch.

- The output nozzle will heat up during operation. Therefore do not touch the nozzle until it has cooled down completely!**
- Prior to transportation, allow the machine to cool down and completely empty the fluid tank. Drain the water from the water tanks completely via the two drain valves.**
- Never operate the fog machine without fog fluid. Fire hazard due to overheating! Besides, the unit may be damaged.**
- During operation fog emission may stop. In this case the device is heating up again. After a short period, the machine will be ready to emit fog again. This process guarantees an appropriate vaporization temperature and the best fog emission possible. The temperature is regulated by a high-quality thermostat.**

Display and operating buttons

The device is equipped with 6 operating buttons and an LCD screen displaying all operation statuses of the machine. All current operating parameters are automatically stored in non-volatile memory, allowing the machine to be powered down without losing function settings.



Button	Function
FUNCTION	Selects functions
UP/DOWN	Selects options/setting values
TIMER	Timer mode
VOLUME	Continuous mode
MANUAL	Manual mode

Menu Settings

Indication	Value	Function
Interval set	1-200s	Setting time intervals for timer operation
Duration set	0-200s	Setting the output duration for timer operation
Timer Out	1-100%/ NONSTOP BURST*	Setting the fog output volume for timer operation
Volume Out	1-100%/ NONSTOP BURST*	Setting the fog output volume for continuous operation
DMX512 Add	1-512	Setting the DMX512 address
WIRELESS	ON/OFF	Wireless remote on/off
Fluid Sensor	ON/OFF	Fluid sensor on/off

* NONSTOP BURST = maximum fog volume (only in fogger operation)

Timer Mode

In the timer mode, the fog machine will automatically emit fog. The time intervals, duration and fog volume depend on the corresponding menu settings. Press the **TIMER** button, to activate the timer mode. The display indicates the set time interval. The unit counts down to 0 seconds and emits fog. To deactivate the timer mode, press the **TIMER** button again.

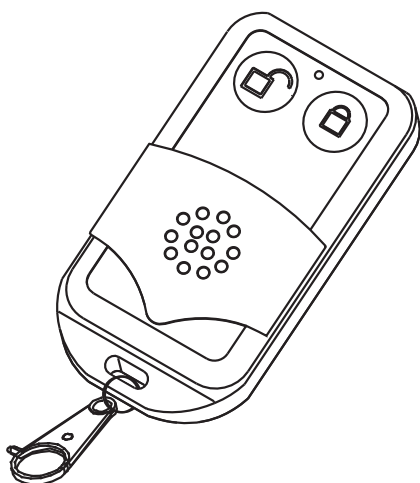
Continuous Mode

Press the **VOLUME** button, to activate continuous fog output. The display indicates Volume followed by the value that was set in menu item “**Volume Out**” or “**NONSTOP BURST**” if maximum fog volume was selected. To stop the fog output, press the **VOLUME** button once again.

Manual Mode

For immediate fog output at the maximum volume of fog, keep the **MANUAL** button pressed. The display indicates “**Manual 100 %**”. As soon as you release the button, the fog output will stop. The manual operation will take priority over the continuous operation and the timer operation. Even if one of these operating modes is activated, the fog machine will always emit the maximum volume of fog when the **MANUAL** button is pressed.

Wireless Remote Control



Press the **left** button on the remote control to emit fog (continuous operation with 100 % fog volume). The **control LED** between the two buttons lights up. To stop the fog output, press the **right** button.

If necessary, the wireless remote control can be turned off in the menu.

If the remote control is not working properly, it must be assigned to the unit. The remote control can be assigned during a short period of time after switching on the machine as long as the display shows the following indication:



To assign the remote control, press and hold one of the buttons until the display flashes repeatedly, to indicate a match. This can take up to 12 seconds. Thus, the remote control has been assigned to the machine and may be used for wireless control.

DMX512 Control

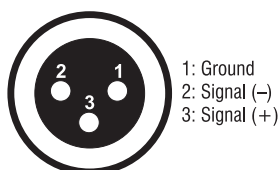
The unit features 3-pin or 5-pin XLR plugs for DMX connection.

- 1 Connect the output of your DMX controller to the DMX input **DMX IN** of the machine with a DMX cable.
- 2 Connect the DMX output **DMX OUT** of the machine to the DMX input of the next unit in the chain. Always connect one output to the input of the next unit until all units are connected.
- 3 At the last unit, the DMX cable has to be terminated. Plug the terminator with a 120 Ω resistor between Signal (-) and Signal (+) in the DMX output of the last unit.
- 4 If the cable length exceeds 300 m or the number of DMX devices is greater than 32, it is recommended to insert a DMX level amplifier to ensure proper data transmission.

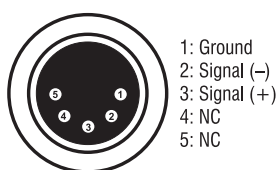
Occupation of the XLR connection:

DMX output

3-pin XLR



5-pin XLR

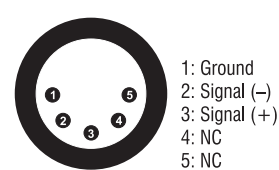


DMX input

3-pin XLR



5-pin XLR



DMX512 Operation

To be able to operate the machine with a DMX controller, the DMX starting address must be set. For this, press the button **FUNCTION** so many times until “**DMX512Add.**“ is indicated in the display. Use the buttons **UP** and **DOWN** to set the address between **001** and **512**. You may now start operating the machine via your DMX controller.

For operation with a controller with DMX512 protocol, the fog machine is equipped with 1 control channel. The DMX channel ranges between the values 0 to 255 and controls the fog output volume.

DMX value	Function
0 – 5	no fog output
6 – 255	minimum fog output (5 %) ↓ maximum fog output (100 %)

Fluid Sensor

To protect the pump and the heater, the machine uses a fluid sensor to test if there is smoke fluid in the tube. You can check the fluid level visually by means of the fluid level indication on the side panel. Always refill with fluid, when the fluid level becomes low to continue using the machine. The fluid sensor control can be turned off in the menu. However, it is a very important protection mechanism and should remain activated for proper operation.

Notes Regarding Operation

- 1** All fog machines develop condensation around the output nozzle. Because this may result in some moisture accumulation on the surface below the output nozzle, consider this condensation when installing your unit.
- 2** All fog machines may sputter small amounts of fog occasionally during operation and for a minute or so after being turned off.
- 3** All fog machines have a recycling period after long bursts when the machine will shut itself down for a short period in order to heat up again. During this time no fog can be produced.
- 4** If you experience low output, pump noise or no output at all, disconnect from mains immediately. Check the fluid level, the external fuse and the power supply. If all of the above appears to be ok, reconnect the unit again. If fog does not come out after holding the **MANUAL** button for 30 seconds, check the tube attached to the tank to make sure there is fluid going through it. If you are unable to determine the cause of the problem, do not simply continue pushing the operating button, as this may damage the unit. Return the machine to your dealer.

CLEANING AND MAINTENANCE

DANGER!



Electric shock caused by high voltages

Within the device there are areas where high voltages may be present. Completely disconnect the device from the power supply before cleaning it or removing any covers.

We recommend a frequent cleaning of the unit, in particular the output nozzle. Please use a soft lint-free and moistened cloth for the outside of the unit. Never use alcohol or solvents! Do not allow the fog liquid to become contaminated. Always replace the caps on the fog liquid container and the fog machine liquid tank immediately after filling.

Empty the tanks completely after operation and before transport. Remove residual moisture inside the water tank with a lint-free cloth.

There are no serviceable parts inside the device. Maintenance and service operations are only to be carried out by authorized dealers. Should you need any spare parts, please use genuine parts. If defective, please dispose of the unusable device in accordance with the current legal regulations. Should you have further questions, please contact your dealer.

Thermal safety switch

The machine is fitted with a thermal safety switch. In the unlikely event of overheating, the switch will automatically interrupt the control circuit. It can be reset by pressing the safety switch button with the machine unplugged.

Cleaning the heating element

The heating element should regularly be cleaned every 40 operational hours in order to avoid clogging. Use fog machine cleaner available at your dealer. All fog machines are prone to clogging due to the thick consistency of fog liquid and the high temperature at which it vaporizes. However, a properly maintained fog machine should provide years of reliable use.

Procedure:

- Fill cleaner into empty fluid tank. Run the machine several times in a well-ventilated room only. The number of repetitions depends on the pollution level of the vaporizing elements.
- After use, empty all remaining cleaner and rinse the tank thoroughly.
- The Eurolite fog fluids we recommend are non-hazardous to the environment and can be disposed of via the sewage system.

Storage

It is recommended to operate the machine at least once a month with a warm-up period and a few minutes of fog emission. Prior to storage, run cleaning fluid through the system as described in the cleaning regimen above. This will help avoid any particles condensing inside the pump or heater.

Replacing the fuse

If the fine-wire fuse of the device fuses, only replace the fuse by a fuse of same type and rating.

- 1 Disconnect the device from power and allow it to cool.
- 2 Open the fuse holder of the mains connection with a fitting screwdriver.
- 3 Remove the old fuse from the fuse holder and replace it with a new fuse.
- 4 Carefully push the fuse holder back into its position before reapplying power.

PROTECTING THE ENVIRONMENT

Disposal of old equipment



When to be definitively put out of operation, take the product to a local recycling plant for a disposal which is not harmful to the environment. Devices marked with this symbol must not be disposed of as household waste. Contact your retailer or local authorities for more information. Remove any inserted batteries and dispose of them separately from the product.



You as the end user are required by law (Battery Ordinance) to return all used batteries/rechargeable batteries. Disposing of them in the household waste is prohibited. You may return your used batteries free of charge to collection points in your municipality and anywhere where batteries/rechargeable batteries are sold. By disposing of used devices and batteries correctly, you contribute to the protection of the environment.

TECHNICAL SPECIFICATIONS

Power supply:	230 V AC, 50 Hz
Power consumption:	1400 W
Protection class:	I
Output distance:	2 m
Warm-up time:	3 min.
Output volume:	13 ml/min.
Tank capacity fluid:	1.8 l
Tank capacity water:	6.7 l
DMX connection:	5-pin and 3-pin XLR
Dimensions (L x W x H):	680 x 415 x 520 mm
Weight:	33 kg
Fuse:	F 7 A, 250 V
Remote control:	
Carrier frequency:	UHF 433.920 MHz
Battery:	12 V, type A27
Range:	approx. 5 m

Specifications are subject to change without notice due to product improvements.

Accessories

EUROLITE Smoke fluid -DSA- effect, 5l	No. 5170435A
EUROLITE WRC-4 Wireless Remote Control	No. 51701962
EUROLITE DMX cable XLR 3pin 3m bk	No. 3022785H
PSSO DMX cable XLR 3pin 3m bk Neutrik	No. 30227810
EUROLITE DMX cable XLR 5pin 3m bl	No. 30227862
PSSO DMX cable XLR 5pin 3m bk Neutrik	No. 30227825

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