



AF-300 fog machine



user manual

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I General information

This user manual contains important information on the safe operation of the device. Read and follow all safety notes and all instructions. Save this manual for future reference. Make sure that it is available to all persons using this device. If you sell the device to another user, be sure that they also receive this manual.

Our products and user manuals are subject to a process of continuous development. We therefore reserve the right to make changes without notice. Please refer to the latest version of the user manual which is ready for download under <u>www.thomann.de</u>.

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1.1 Further information

On our website (<u>www.thomann.de</u>) you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.



1.2 Notational conventions

This manual uses the following notational conventions:

LetteringsThe letterings for connectors and controls are marked by square brackets and italics.Examples: [VOLUME] control, [Mono] button.

DisplaysTexts and values displayed on the device are marked by quotation marks and italics.Examples: '24ch', 'OFF'.

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Instructions

The individual steps of an instruction are numbered consecutively. The result of a step is indented and highlighted by an arrow.

Example:

- **1.** Switch on the device.
- **2.** Press [Auto].
 - \Rightarrow Automatic operation is started.
- **3.** Switch off the device.

1.3 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this manual.



Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a pos- sible dangerous situation that can result in death or serious injury if it is not avoided.
CAUTION!	This combination of symbol and signal word indicates a pos- sible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a pos- sible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.

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Warning signs	Type of danger
	Warning – flammable substances.
	Warning – hot surface.
	Warning – dangerous optical radiation.
	Warning - slip hazard.
	Warning – harmful or irritating substances.



Warning signs	Type of danger
	Warning – danger zone.



2 Safety instructions

Intended use

This device is intended for generating artificial fog by evaporating the fog fluid with which it is filled, with an additional electronic lighting effect by means of LED technology. The device is designed for professional use and is not suitable for use in households. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

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.

Extend the life of the device by regular breaks in operation and avoid switching it on and off frequently. This device is not suitable for continuous use.



Safety



DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.



DANGER!

Electric shock caused by high voltages inside

Within the device there are areas where high voltages may be present. Never remove any covers.

There are no user-serviceable parts inside.

Do not use the device if covers, protectors or optical components are missing or damaged.



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DANGER!

Electric shock caused by short-circuit

Always use proper ready-made insulated mains cabling (power cord) with a protective contact plug. Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.



WARNING!

Risk of burns from flammable liquids

The use of flammable liquids in this device may cause severe burns and damage to property.

Always use approved fog fluids. Never fill flammable liquids into the tank of the device.

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WARNING!

Risk of burns

The generated fog at the fog nozzle is hot and can cause burns. Occasionally hot fluid drops may escape from the nozzle.

The distance of persons and objects to the fog nozzle must be at least fifty centimetre (1.6 feet).

Do not touch the fog nozzle during and shortly after operation. It becomes very hot and may cause burns even several hours after switching off the device.



WARNING!

Risk of slipping caused by condensate

Fog machines can produce condensate. Do not direct the fog to floors. Floors and surfaces can become slippery by condensed fog.

Check regularly that all floors can be accessed without slipping hazard and remove any condensate, if necessary.







WARNING!

Health hazard caused by fog fluid handling

Fog fluid does contain glycols complying with the regulations for foodstuffs. However, it may be harmful if swallowed.

Do not induce vomiting. Seek medical advice immediately. Keep fog fluid in a safe place. If the fog fluid comes into contact with eyes rinse thoroughly with water.



WARNING! Eye damage caused by high light intensity

Never look directly into the light source.



WARNING!

Risk of epileptic shock

Strobe lighting can trigger seizures in photosensitive epilepsy. Sensitive persons should avoid looking at strobe lights.





CAUTION!

Possible respiratory problems

The device can be operated safely only with the approved fog fluid. The use of other fluids can release toxic gases. Claims for damages caused by the use of non-approved fluids shall be excluded.

Do not create fog in closed or poorly ventilated areas.

Do not expose persons with health problems (such as allergic respiratory conditions, asthma) to artificial fog.



NOTICE!

Risk of fire

Do not block areas of ventilation. Do not install the device near any direct heat source. Keep the device away from naked flames.



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Risk of fire due to incorrect polarity

Incorrectly inserted batteries may destroy the device or the batteries.

Ensure that proper polarity is observed when inserting batteries.



NOTICE!

Possible damage by leaking batteries

Leaking batteries can cause permanent damage to the device.

Take batteries out of the device if it is not going to be used for a longer period.



Possible damage due to installation of a wrong fuse

The use of different types of fuses can cause serious damage to the unit. Fire hazard!

Only fuses of the same type may be used.

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Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

Only operate the device within the ambient conditions specified in the chapter 'Technical specifications' of this user manual. Avoid heavy temperature fluctuations and do not switch the device on immediately after it was exposed to temperature fluctuations (for example after transport at low outside temperatures).

Dust and dirt inside can damage the unit. When operated in harmful ambient conditions (dust, smoke, nicotine, fog, etc.), the unit should be maintained by qualified service personnel at regular intervals to prevent overheating and other malfunction.

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Power supply

Before connecting the device, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly injure the user.

Unplug the device before electrical storms occur and when it is unused for long periods of time to reduce the risk of electric shock or fire.

General information about how to safely operate fog machines and hazers

The device was designed for use in professional event technology and works reliably when used properly. Observe the following information:

- Follow all warnings in these operating instructions.
- Never leave the device running without supervision.
- The device is not suitable for use in private households or as a child's toy.
- Place the device on a stable, fire-proof basis that is at least twice as large as the device.
- Maintain a safety distance of 1 m to flammable materials.
- The device is not intended for suspended assembly (the so-called "flying operation").

- During operation, ensure that the visibility in the room does not fall below 2 m so that everyone in the room can still orient themselves safely.
- The haze or mist generated by the device may trigger smoke alarms.



3 Features

This fog machine is suitable for use in clubs, bars, discotheques and on stages.

Special features of the device:

- Coloured fog effects by integrated LEDs
- Control via DMX (3, 8, 11, and 12 channels)
- Fade effect
- Manual control via wired and iremote control (included)
- Lockable input socket (Power Twist IP65 TR1) for power supply

For technological reasons, the light output of LEDs decreases over their lifetime. This effect increases with higher operating temperature. You can extend the service life of the illuminants by providing adequate ventilation and operating the LEDs with the lowest possible brightness.

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4 Installation

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

The device requires 50 cm clearance at the sides and above. Place the unit on a flat, stable surface. The unit should be installed horizontally, a maximum deviation of 15° is allowed.

Insert the fog fluid container into the unit and then mount the supplied safety bracket on the device. To do so, unscrew the two bolts on the left and right of the opening for the fog fluid container from the housing. Put on the safety bracket and secure it with the two bolts on the housing.



5 Starting up

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

NOTICE!

Possible data transmission errors

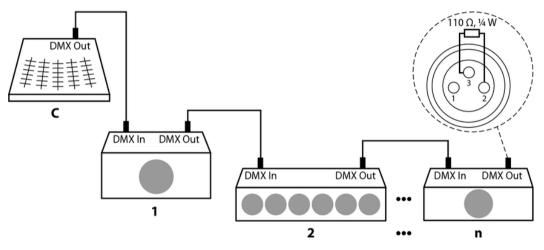
For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

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Connections in DMX mode

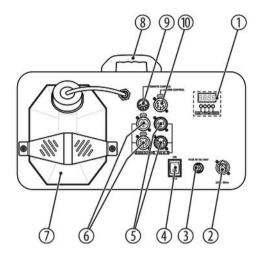
Connect the DMX input of the device to the DMX output of a DMX controller or another DMX device. Connect the output of the first DMX device to the input of the second one, and so on to form a daisy chain. Always ensure that the output of the last DMX device in the daisy chain is terminated with a resistor (110 Ω , ¼ W).





6 Connections and controls

Rear panel



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1	Operating panel, comprising of:
	Display
	[ENTER]
	Button to select a menu option and to confirm the entered values
	A
	Button to page down in the menu system, and to increase the displayed value
	¥
	Button to page up in the menu system, and to decrease the displayed value
	[FUNC]
	Button to open the menu control
2	Lockable input socket (Power Twist IP65 True 1) for power supply
3	[FUSE]
	Resettable electronic fuse. If the fuse is triggered, fix the cause and then push the button to reset the fuse.

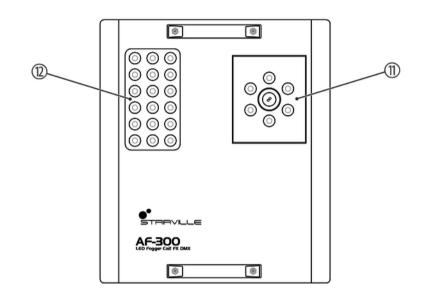


4	[ON OFF]
	Main switch. Turns the device on and off.
5	[DMX IN]
	DMX input, 3 and 5-pin
б	[DMX OUT]
	DMX output, 3 and 5-pin
7	Fog fluid container with screw-cap
8	Handles
9	[REMOTE CONTROL]
	Connection for the module for setting the device ID
10	[WIRE CONTROL]
	Connection for the supplied wired remote control

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Top side



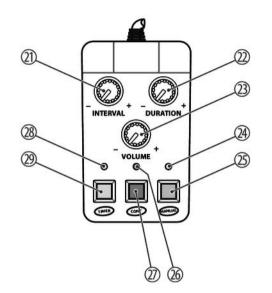


11	Fog nozzle with LED ring
12	LED field

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Wired remote control

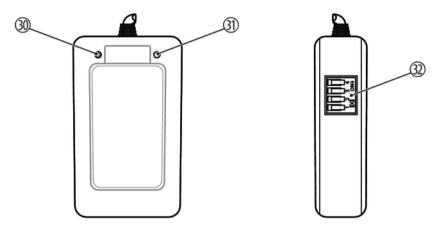


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21	[INTERVAL]
	Rotary control to set the interval between two fog blasts
22	[DURATION]
	Rotary control to set the blast duration
23	[VOLUME]
	Rotary control to set the amount of fog to be output
24.25	[MANUAL]
	Press this button to eject the maximum fog volume; set the air amount with [DURATION]. The corresponding LED lights while the function is enabled.
26, 27	[CONT]
	Press this button to turn continuous operation on or off. In this mode, the fog output is permanently activated. The corresponding LED lights while the function is enabled.
28, 29	[TIMER]
	With this button, you can turn the Timer function on or off. In this mode, the set amount of fog / air is output in certain intervals. The corresponding LED lights while the function is enabled.

thomann MUSIC IS OUR PASSION Radio receiver with module for setting the device ID.

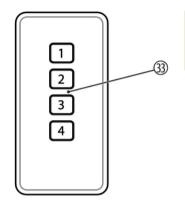




30	The LED indicates that the device is heating up.
31	The LED indicates that the unit has reached the operating temperature necessary to produce fog.
32	DIP switch for setting the device ID between 1 and 4. Set that switch to 'ON' which corresponds to the desired ID.



Radio remote control



33 [1], [2], [3], [4]

Button for manually triggering the fog blast on one device at a time. [1] controls the devices with ID 1, [2] those with ID 2 and so on.



7 Operating

Filling the unit

NOTICE!

Possible damages caused by unsuitable fog fluid

Fog liquids not approved by the manufacturer may permanently damage the unit.

Only use the fog fluids listed on <u>www.thomann.de</u> and follow their instructions for use.

First, make sure the unit is disconnected from the mains.

Open the screw-cap of the liquid container and fill in the fog fluid. Make sure that no fog fluid is spilled or gets into the device. The easiest way is using a funnel. The container capacity is 2.5 litre.

Screw the cap firmly back on.

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Turning the unit on

NOTICE! Fire hazard Do not operate the machine unattended.



LED ring and LED panel only light up permanently when the device emits fog. If you test the settings with the fog output turned off, the LED effects are visible for 10 seconds.

Connect the device to the mains power grid and turn it on with the main switch. During the warm-up time of about 9 minutes (\pm 1 min) the display shows '*UP*'. Once the device is operational, the display will change to '*rEAD*'.

When the machine receives a DMX signal, the display shows the set DMX address, even during start-up and warm-up time. Then the unit does not respond to manual control commands, you only have the option to adjust the DMX address via the device menu.



Operation

Operation with an empty fluid container can lead to overheating and permanent damage of the pump. When operating, always ensure that there is sufficient fog fluid in the liquid container to avoid no-load running.



Operating mode 'Manual con-	This mode can only be selected when no DMX controller is connected and turned on.
trol'	In this mode, the fog output can be triggered and deactivated using [MANUAL] on the remote control.
	The colour effect and the fade effect can only be adjusted using the menu control on the real panel of the unit.
	1. Press [FUNC] to open the menu control.
	2. Press again [FUNC] or press the arrow keys \forall and \blacktriangle , until 'Co-N' (for the LED ring) or 'Co-o' (for the LED field) appears on the display.
	3. Confirm with [ENTER].
	\Rightarrow The last set value is flashing in the display.
	4. Select the desired colour setting with the arrow buttons ¥ and ▲ see following table. The setting takes effect immediately.
	5. Confirm the input with <i>[ENTER]</i> .



Display	Colour setting	
'oFF'	LEDs off	
ʻo-1' ʻo-14'	14' Continuous light in one of 14 predefined colours	
'Auto'	Automatic colour change, all LEDs	

Setting the fade effect

- **1.** Press [FUNC] to open the menu control.
- **2.** ▶ Press [FUNC] again or use the arrow buttons ¥ and Å, until the display shows 'FAdE'.
- 3. ▶ Use ¥ and A to select one of the displayed values ('0 S', '2 S', '3 S' (factory setting), '5 S').
- **4.** Confirm the input with *[ENTER]*.

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Display blackout

- **2.** Press the button [FUNC] again or use the arrow buttons \forall and \blacktriangle , until the display shows 'Led'.
- 3. Use the arrow buttons ¥ and ★ to choose between 'on' (display remains permanently on) and 'oFF' (display goes off after a few seconds if no key is pressed).
- **4.** Confirm the input with *[ENTER]*.

Manual control via wired
remote controlConnect the remote control to the connector socket [WIRE CONTROL] at the control panel of
the device. Make sure that the two indicator LEDs on the remote control light up.

If the device is not controlled via DMX you can trigger and regulate the fog output with the button on the remote control.



Manual control via wireless remote control

Connect the radio receiver with module for setting the device ID to the connector socket [*REMOTE CONTROL*] at the control panel of the device. During the heating process, the red LED on the module lights up, after that the green LED.

Use the DIP switches 1...4 to set the device ID. If the device is not controlled via DMX, you can control the fog output using the keys [A] ... [D] of the wireless remote control. [A] controls the devices with ID 1, [B] those with ID 2 and so on.

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Operating mode 'DMX'

Set the DMX address of the device using the menu control.

- **1.** Press [FUNC] to open the menu control.
- 2. Press the buttons [FUNC] again or use the arrow buttons ¥ and A, until the display shows 'Addr'.
- **3.** Confirm with [ENTER].
 - \Rightarrow The last set value '1'... '501' is flashing in the display.
- **4.** ▶ Select the desired address with the arrow buttons ¥ and **A**.
- **5.** Confirm the input with [ENTER].

Make sure that this number matches the configuration of your DMX controller.

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In this mode the wireless remote control and the wired remote control have no function.



DMX assignment 3-channel mode

Channe I	Value	Function
1	09	No fog output (0 %)
	10255	Fog output (100 %)
2	09	Colour macro off
	10255	Colour macro on
3	063	LED fade effect, duration 0 s
	64127	LED fade effect, duration 2 s
	128191	LED fade effect, duration 3 s
	192255	LED fade effect, duration 5 s

DMX assignment 8-channel mode

Channe I	Value	Function
1	09	No fog output (0 %)
	10255	Fog output (100 %)
2	0	All LEDs off
	1255	Master dimmer
3	09	Stroboscope effect off
	10255	Stroboscope effect from slow to fast
4	0255	Red LEDs from off to maximum brightness
5	0255	Green LEDs from off to maximum brightness
б	0255	Blue LEDs from off to maximum brightness
7	09	Colour macro off
	10255	Colour macro on

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Channe I	Value	Function
8	063	LED fade effect, duration 0 s
	64127	LED fade effect, duration 2 s
	128191	LED fade effect, duration 3 s
	192255	LED fade effect, duration 5 s

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DMX assignment 11-channel mode

Channe I	Value	Function
1	09	No fog output (0 %)
	10255	Fog output (100 %)
2	0	All LEDs off
	1255	Master dimmer
3	09	Stroboscope effect off
	10255	Stroboscope effect from slow to fast
4	0255	Red LEDs (outside) from off to maximum brightness
5	0255	Green LEDs (outside) from off to maximum brightness
6	0255	Blue LEDs (outside) from off to maximum brightness
7	0255	Red LEDs (inside) from off to maximum brightness
8	0255	Green LEDs (inside) from off to maximum brightness

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Channe I	Value	Function
9	0255	Blue LEDs (inside) from off to maximum brightness
10	09	Colour macro off
	10255	Colour macro on
11	063	LED fade effect, duration 0 s
	64127	LED fade effect, duration 2 s
	128191	LED fade effect, duration 3 s
	192255	LED fade effect, duration 5 s



DMX assignment 12-channel mode

Channe I	Value	Function
1	09	No fog output (0 %)
	10255	Fog output (100 %)
2	0	All LEDs off
	1255	Master dimmer
3	09	Stroboscope effect off
	10255	Stroboscope effect from slow to fast
4	0255	Red LEDs (outside) from off to maximum brightness
5	0255	Green LEDs (outside) from off to maximum brightness
б	0255	Blue LEDs (outside) from off to maximum brightness
7	0255	Amber LEDs (outside) from off to maximum brightness
8	0255	Red LEDs (inside) from off to maximum brightness

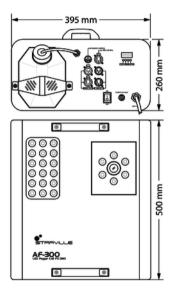
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Channe I	Value	Function
9	0255	Green LEDs (inside) from off to maximum brightness
10	0255	Blue LEDs (inside) from off to maximum brightness
11	09	Colour macro off
	10255	Colour macro on
12	063	LED fade effect, duration 0 s
	64127	LED fade effect, duration 2 s
	128191	LED fade effect, duration 3 s
	192255	LED fade effect, duration 5 s

Turning the unit offTurn off the power using the main switch. Transport the device only when it is completely
cooled down. To avoid leaking fog fluid during transport, you should transport the device only
with empty fluid container.

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8 Technical specifications



Approved fog fluids	Stairville FAST-FOG (item no. 209054)
	Stairville E-M fluid (item no. 121307)
	Stairville E fluid (item no. 105454)
	Stairville E-C fluid (item no. 105455)
	Stairville E-HD heavy fluid (item no. 105456)
Heater power	2600 W
Warm-up time	9 min (± 1 min)
Fluid container capacity	2.5
Fluid consumption	approx. 260 ml / min
For burst duration, max.	approx. 6 s
Charging time between fog bursts	approx. 30 s

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Fog burst reach	approx. 5 m	
LED configuration:	18 × 8W RGBA 4in1	
	6 × 1W RGB 3in1	
Input connections	DMX control	XLR chassis sockets, 3- and 5-pin
	Receiver of the wireless remote control	DIN socket, 5-pin
	Wired remote control	XLR chassis socket, 5-pin
Output connections	DMX control	XLR chassis sockets, 3- and 5-pin
Power consumption	2700 W	
Supply voltage	AC 230 V ~ , 50 Hz	
Battery (IR remote control)	23A, 12 V	
Fuse	5 mm $ imes$ 20 mm, 15 A, 250 V, fast-acting	
Degree of protection	IP20	

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Dimensions (W \times H \times D)	$395 \text{ mm} \times 500 \text{ mm} \times 260 \text{ mm}$	
Weight	18.6 kg	
Ambient conditions	Temperature range	0 °C40 °C
	Relative humidity	50 %, non-condensing

Further information

DMX control	Yes
Blast direction	Vertical
Timer remote control	Yes
On/Off remote control	Yes
Radio remote control	Yes
Light effect	Yes
With suspension bracket	No



9 Plug and connection assignment

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment so that a perfect light experience is guaranteed.

Please take our tips, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into a socket, the result of an incorrect connection may be a destroyed DMX controller, a short circuit or 'just' a not working light show!

DMX connections

The unit offers a 3-pin XLR socket for DMX output and a 3-pin XLR plug for DMX input. Please refer to the drawing and table below for the pin assignment of a suitable XLR plug.



Pin	Configuration
1	Ground, shielding
2	Signal inverted (DMX–, 'cold signal')
3	Signal (DMX+, 'hot signal')



DMX connections



A five-pin XLR socket serves as DMX output, a five-pin XLR plug serves as DMX input. The drawing below and the table show the pin assignment of a matching coupling.

Pin	Assignment
1	Ground (shielding)
2	Signal inverted (DMX–, 'cold')
3	Signal (DMX+, 'hot')
4	unused / second connection (DMX-)
5	unused / second connection (DMX+)



10 Troubleshooting

NOTICE!

Possible data transmission errors

For error-free operation make use of dedicated DMX cables and do not use ordinary microphone cables.

Never connect the DMX input or output to audio devices such as mixers or amplifiers.

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

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Symptom	Remedy
The unit does not work, no fog blast	1. Check the mains connection, the resettable automatic fuse and the main fuse.
	2. Check that the fog fluid and / or water tank is sufficiently filled.
	3. Check the hose connections of the fog fluid and the water tank.
The display shows the flashing message ''	Check that the fog fluid and / or water tank is sufficiently filled.
No response to the DMX controller	1. Check the DMX connectors and cables for proper connection.
	2. Check the address settings and the DMX polarity.
	3. Try using another DMX controller.
	4. Check whether the DMX cables run near or parallel to high-voltage cables that may cause damage or interference to a DMX interface circuit.
No response to the wired remote control	Check if the remote control is connected correctly.
No response to the IR remote control	Check the remote control battery.

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If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at <u>www.thomann.de</u>.

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11 Cleaning

	NOTICE! Possible damages caused by unsuitable cleaning agents Cleaners not approved by the manufacturer may permanently damage the unit. Only use the fog machine cleaners listed on <u>www.thomann.de</u> and follow their instructions for use.	
	Clean the appliance after every 30 operating hours, or if it was not in use for a longer period of time.	
Procedure	1. Make sure that the device is turned off, disconnected from the mains and completely cooled down.	
	2. Position the unit in a well ventilated place.	
	3. Insert the suction hose of the fog machine into the bottle with the fog machine cleaner.	
	4. Connect the device to the mains power grid and turn it on with the main switch.	
	5. Wait until the unit has reached the required operating temperature.	

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- **6.** Change to continuous operation and let the device produce fog for about 20 seconds.
- **7.** Insert the suction hose of the fog machine back into the fog fluid container and let the device again produce fog for about 20 seconds. This will rinse the lines.
 - \Rightarrow The cleaning is completed.

Fan grids

The fan grids of the device must be cleaned of any contamination, such as dust, etc. on a regular basis. Before cleaning, switch off the device and disconnect mains-operated devices from the mains. Only use pH-neutral, solvent-free and non-abrasive cleaning agents. Clean the unit with a slightly damp lint-free cloth.

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12 Protecting the environment

Disposal of the packaging material



Disposal of batteries



For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose these materials with your normal household waste, but make sure that they are fed to a recovery. Please follow the notes and markings on the packaging.

Batteries must not be disposed of as domestic waste or thrown into fire. Dispose of the batteries according to national or local regulations regarding hazardous waste. To protect the environment, dispose of empty batteries at your retail store or at appropriate collection sites.



Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.

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