



# Hz-600 PRO Hazer DMX

hazer

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# 1 General information

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

## 1.1 Further information

On our website ([www.thomann.de](http://www.thomann.de)) 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:

### Letterings

The letterings for connectors and controls are marked by square brackets and italics.

**Examples:** *[VOLUME]* control, *[Mono]* button.


### Displays

Texts and values displayed on the device are marked by quotation marks and italics.




**Examples:** *'24ch'*, *'OFF'*.

## 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
<b>DANGER!</b>	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.
<b>WARNING!</b>	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
<b>CAUTION!</b>	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
<b>NOTICE!</b>	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.
Warning signs	Type of danger
	Warning – high-voltage.



Warning signs	Type of danger
	<p>Warning – flammable substances.</p>
	<p>Warning – harmful or irritating substances.</p>
	<p>Warning – danger zone.</p>

## 2 Safety instructions

### Intended use

This device is intended to be used to produce fine haze by vaporising hazer fluid. 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.

### 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.



**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 appliance can cause serious burns and property damages.

Use only approved hazer fluids. Never fill flammable liquids into the container of the device.



**WARNING!**

**Danger of slipping from condensate**

Hazers can produce condensate. Do not point the haze on floors. Floors and surfaces can become slippery by condensed haze.

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



**WARNING!**

**Health hazard when handling hazer fluid**

Hazer fluid contains glycols, which meet the requirements for food products. Nevertheless, fluid is harmful if swallowed.

Do not induce vomiting. Get immediate medical attention. Keep hazer fluid in a safe place. Rinse the eyes upon contact with hazer fluid thoroughly with water.



**CAUTION!**

**Possible respiratory problems**

The device can only be operated safely when using approved hazer fluids. Using other fluids can generate toxic gases. Any claims for compensation for damages caused by using non-approved fluids are excluded.

Do not let the device produce haze in poorly ventilated areas.

Do not expose people with health problems (such as allergy-related respiratory symptoms, asthma) to artificial haze.



### **NOTICE!**

#### **Risk of fire**

Do not cover the device nor any ventilation slots. Do not place the device near any direct heat source. Keep the device away from naked flames.



### **NOTICE!**

#### **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.



**NOTICE!**

**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.

### 3 Features

This hazer is suitable to be used in clubs, bars, discotheques and on stages.

Special features of the device:

- Control via DMX-512 and via buttons and display on the unit
- Fast heating-up
- Compact design
- Specifically designed for touring use
- Can be operated in the supplied flight case
- 1.2 l fluid container for the haze fluid



## 4 Installation

Unpack and carefully check that there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the device 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 20 cm clearance at the sides and above. Place the unit on a flat, stable surface. The device must never be operated in a more than 15° tilted position.

The device is suitable for operation in the supplied flight case. Insert the device so into the flight case that the ventilation opening of the flight case is opposite to the fan opening of the unit and the haze outlet of the device sits opposite to the corresponding recess provided in the flight case.

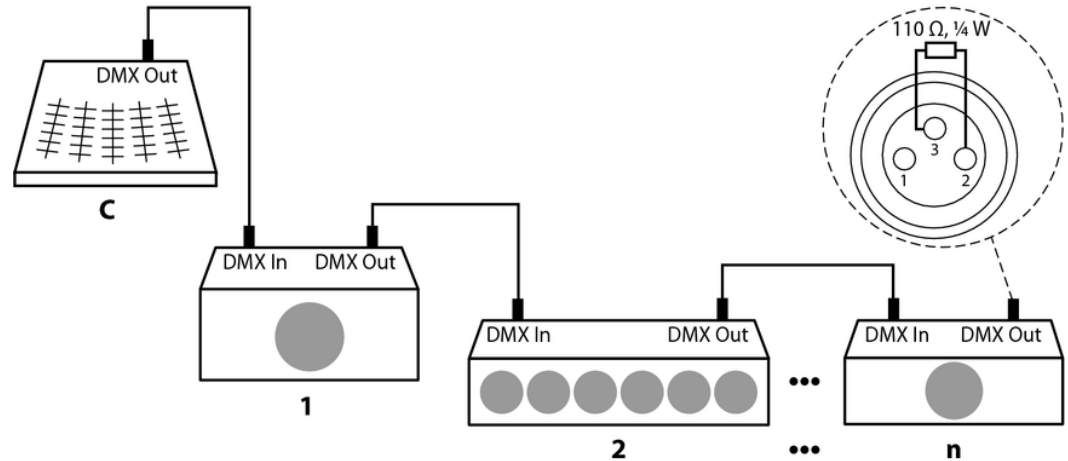
Make sure that the ventilation opening of the flight case (when operating with flight case) or the fan opening of the device (when operating without flight case) as well as the haze aperture will never be covered during operation.

## 5 Starting up

Establish all connections as long as the unit is switched off. Use the shortest possible high-quality cables for all connections.

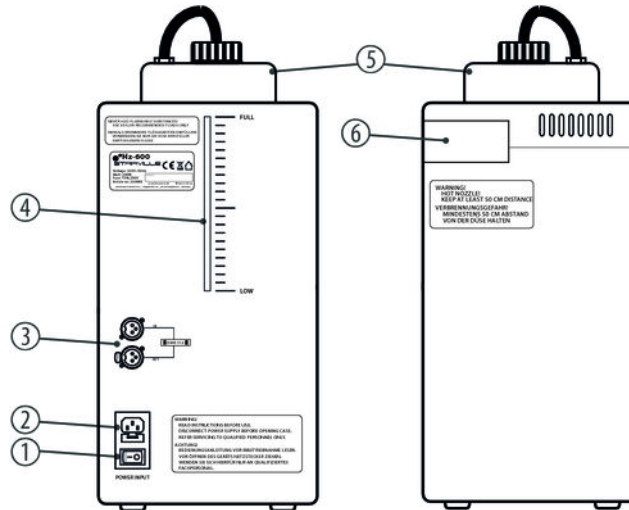
**Connections in DMX mode**

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 ( $110\ \Omega$ ,  $\frac{1}{4}\text{ W}$ ).



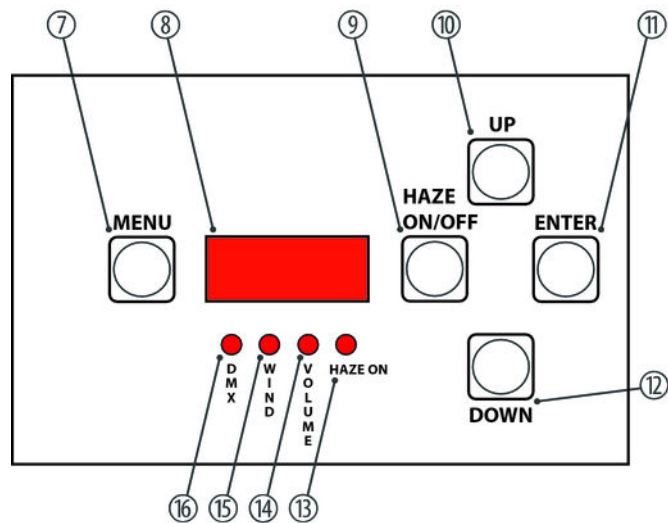
## 6 Connections and operating elements

### Front and rear panel



1	Mains switch. Turns the device on and off.
2	IEC chassis plug with fuse holder for the power supply.
3	<i>[IN]</i> <i>[OUT]</i> DMX in and output
4	Liquid level indicator.
5	Hazer fluid container with screw-cap.
6	Haze aperture.

Operating panel



7	<i>[MENU]</i> Button to select the operating mode.
8	Display.
9	<i>[HAZE ON/OFF]</i> Button to switch between standby mode and permanent haze emission.
10	<i>[UP]</i> Button to increase the displayed value. Briefly press the button to increase the displayed value by one. Keep the button pressed to increase the value quickly.
11	<i>[ENTER]</i> Button to confirm the entered values.
12	<i>[DOWN]</i> Button to decrease the displayed value. Briefly press the button to decrease the displayed value by one. Keep the button pressed to decrease the value quickly.
13	<i>[HAZE ON]</i> Indicator LED. This LED lights up when the device is turned on.

14	<i>[VOLUME]</i> Indicator LED. This LED lights up when the operating mode 'Volume' is selected with the <i>[MENU]</i> button.
15	<i>[WIND]</i> Indicator LED. This LED lights up when the operating mode 'Wind' is selected with the <i>[MENU]</i> button.
16	<i>[DMX]</i> Indicator LED. This LED lights up when the operating mode 'DMX' is selected with the <i>[MENU]</i> button.



## 7 Operating

### Filling the unit

**NOTICE!****Possible damages caused by unsuitable hazer fluid**

Hazer fluids not approved by the manufacturer may permanently damage the unit.

Only use the hazer fluids listed on [www.thomann.de](http://www.thomann.de) and follow their instructions for use.

First, make sure the unit is switched off.

Open the screw-cap of the liquid container and fill in the hazer fluid. Make sure that no hazer fluid is spilled or gets into the device. The easiest way is using a funnel. The container capacity is 1.2 litre.

Screw the cap firmly back on.

### Turning the unit on



#### **NOTICE!**

#### **Fire hazard**

Do not operate the machine unattended.

Connect the device to the power grid and turn it on with the main switch. After switching on, the unit first carries out a short self-test of about 25 seconds. The display shows 'UP'.

After a short warm-up time of about 35 seconds in total, the unit is in Standby mode and operational. The [HAZE ON] LED lights up and the display shows 'READ'.

### Operating mode selection

Press [MENU] repeatedly to switch sequentially between the operating modes 'DMX', 'WIND' and 'VOLUME'.

The LED of the selected mode lights solid red.

**Operating mode 'DMX'**

Press *[MENU]* repeatedly until the *[DMX]* LED lights up. The display shows the current DMX address. Use the *[UP]* and *[DOWN]* buttons to select the desired DMX address in a range from 1 to 511. Press *[ENTER]* to save the value. During operation, the display shows the set DMX address.

Make sure that the DMX address matches the configuration of your DMX controller.

**DMX assignment**

Channel	Value	Function
1	Setting the amount of haze	
	0...255	No haze output (0 %) to maximum haze output (100 %)
2	Setting the blower power.	
	0...255	Blower off (0 %) to maximum blower power (100 %)

**Operating mode 'WIND'**

Press *[MENU]* repeatedly until the *[WIND]* LED lights up. The display shows the current value. Use the *[UP]* and *[DOWN]* buttons to set the blower intensity between '1' (minimum blast of wind) and '100' (maximum blast of wind). Press *[ENTER]* to confirm.

### **Operating mode 'VOLUME'**

Press *[MENU]* repeatedly until the *[VOLUME]* LED lights up. The display shows the current value. Use the *[UP]* and *[DOWN]* buttons to set the desired haze amount between '1' (minimum haze blast) and '100' (maximum haze blast). Press *[ENTER]* to confirm.

Press *[HAZE ON/OFF]* to stop the haze output. The display shows 'rEAD'. Press *[HAZE ON/OFF]* again to restart the haze output until the display shows '1' again.

### **Turning the unit off**

If the unit is in operating mode 'DMX', press *[MENU]* to leave this operation mode. The LED *[DMX]* goes off.

Press *[HAZE ON/OFF]* to turn the unit to standby mode (display shows 'rEAD'). Only turn the device off with the main switch after haze output has stopped. Transport the device only when it is completely cooled down. To avoid leaking hazer fluid during transport, you should transport the device only with empty fluid container.

## 8 Technical specifications

Fluid container capacity	1.2 l
Fluid consumption	approx. 4.5 ml / min
Warm-up time	approx. 35 s
Operating supply voltage	AC 230 V ~ , 50 Hz
Fuse	5 A / 250 V, slow blow, 5 mm × 20 mm
Power consumption	340 W
Dimensions (W × D × H)	240 mm × 380 mm × 480 mm
Weight	19 kg

## 9 Plug and connection assignments

### 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')

## 10 Troubleshooting

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

Symptom	Remedy
The unit does not work	Check the mains connection and the main fuse.
No haze output	<ol style="list-style-type: none"> <li>1. Check the fluid level of the hazer fluid.</li> <li>2. Switch the device off and check the hose that leads into the fluid container for flow.</li> </ol>
No response to the DMX controller	<ol style="list-style-type: none"> <li>1. Check the address settings and the DMX polarity.</li> <li>2. Try using another DMX controller.</li> <li>3. Check to see if the DMX cables run near or alongside to high voltage cables that may cause damage or interference to DMX interface circuits.</li> </ol>

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at [www.thomann.de](http://www.thomann.de).



## 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 [www.thomann.de](http://www.thomann.de) 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 haze machine into the bottle with the fog machine cleaner.
4. ➤ Connect the device to the mains and switch it on with the main switch. The unit is heating up and the display shows 'UP'.

- 5.** ▶ As soon as the required operating temperature is reached, the display shows 'READY'. The device is now operational.  
  
Switch to [VOLUME] mode and increase the haze output with the [UP] button to maximum. Let the device produce haze for about 20 seconds.
- 6.** ▶ Insert the suction hose of the haze machine back into the hazer fluid container and let the device again produce haze for about 20 seconds. This will rinse the lines.  
  
⇒ The cleaning is completed.

## 12 Protecting the environment

### Disposal of the packaging material



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 of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

### Disposal of your old device



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

Dispose of 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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