

User Manual



RED Fog 3000

Fog Machine

Thomann GmbH
Hans-Thomann-Straße 1
96138 Burgebrach
Germany
Telephone: +49 (0) 9546 9223-0
Internet: www.thomann.de

18.01.2024, ID: 577562

Table of contents

1	General information.....	4
1.1	Symbols and signal words.....	4
2	Safety instructions.....	7
3	Features.....	11
4	Installation.....	12
5	Starting up.....	13
6	Connections and controls.....	15
7	Operation.....	19
7.1	Basic settings.....	22
7.2	Manual control.....	26
8	Technical specifications.....	28
9	Troubleshooting.....	31
10	Cleaning.....	33
11	Protecting the environment.....	35

1 General information

This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under www.thomann.de.

1.1 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 document.

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 possible 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 possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	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 – flammable substances.

Warning signs	Type of danger
	Warning – hot surface.
	Warning - slip hazard.
	Warning – harmful or irritating substances.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is intended to be used to produce artificial fog by vaporising fog 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!

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.



DANGER!

Danger to life due to electric current!

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 when covers, safety equipment or optical components are missing or damaged.



DANGER!

Risk of death from electrical current!

A short circuit can cause fires and loss of life. Always use properly insulated, tripe-core mains cable. Do not modify the mains cable or the power plug. If the insulation is damaged, immediately switch off the power supply and have it repaired. If in doubt, contact a qualified electrician.



WARNING!

Risk of burns from flammable liquids!

The use of flammable liquids in the device may cause severe burns and damage to property. Use only approved fog fluids. Never fill flammable liquids into the tank of the device.



WARNING!

Risk of burns on the hot fog nozzle!

The fog generated on the fog nozzle is hot. Occasionally hot fluid drops may escape from the nozzle. The fog nozzle may be hot for several hours after switching off the device. Skin contact with hot fog and drops of hot liquid can lead to burns. Ensure a minimum distance of 50 cm to persons and objects during operation. Do not touch the fog nozzle during and immediately after operation. Before touching the device, always ensure that all surfaces have cooled down sufficiently.



WARNING!

Slip hazard due to condensate pools!

The fog generated by the fog machine can condense on floors and surfaces. People can slip and injure themselves on pools of condensate. Do not direct the fog to floors or other surfaces that may be stepped on. Regularly check all floors and other surfaces that can be accessed for slipping hazards. If necessary, remove any pools of condensate.



WARNING!

Health hazard when handling fog fluid!

Fog fluid contains glycols. There is a health risk in case of eye contact and if fluid is swallowed. Keep fog fluid in a safe place and out of the reach of children. Never ingest fog fluid and avoid contact with eyes. In case of accidental ingestion or eye contact with fog fluid: Do not induce vomiting if swallowed. Thoroughly rinse the eyes with water upon contact. Get immediate medical attention.

**CAUTION!****Possible respiratory problems due to fog fluid!**

Fog fluid can lead to respiratory problems in case of prolonged exposure and in certain people. Using unsuitable fluids can generate toxic gases. Do not use any fog fluids other than the ones approved for the device. Any claims for compensation for damages caused by using non-approved fluids are excluded. Do not let the device produce fog in poorly ventilated areas. Do not expose people with health problems (e.g. allergy-related respiratory symptoms, asthma) to artificial fog.

**NOTICE!****Risk of fire due to covered vents and neighbouring heat sources!**

If the vents of the device are covered or the device is operated in the immediate vicinity of other heat sources, the device can over-heat and burst into flames. Never cover the device or the vents. Do not install the device in the immediate vicinity of other heat sources. Never operate the device in the immediate vicinity of naked flames.

**NOTICE!****Damage to the device if operated in unsuitable ambient conditions!**

The device can be damaged if it is operated in unsuitable ambient conditions. Only operate the device indoors within the ambient conditions specified in the "Technical specifications" chapter of this user manual. Avoid operating it in environments with direct sunlight, heavy dirt and strong vibrations. Avoid operating it in environments with strong temperature fluctuations. If temperature fluctuations cannot be avoided (for example after transport in low outside temperatures), do not switch on the device immediately. Never subject the device to liquids or moisture. Never move the device to another location while it is in operation. In environments with increased dirt levels (for example due to dust, smoke, nicotine or mist): Have the device cleaned by qualified specialists at regular intervals to prevent damage due to overheating and other malfunctions.

**NOTICE!****Damage to the device due to high voltages!**

The device can be damaged if it is operated with the incorrect voltage or if high voltage peaks occur. In the worst case, excess voltages can also cause a risk of injury and fires. Make sure that the voltage specification on the device matches the local power grid before plugging in the device. Only operate the device from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). As a precaution, disconnect the device from the power grid when storms are approaching or if the device will not be used for a longer period.



NOTICE!

Risk of fire due to installation of a wrong fuse!

Using fuses of a different type than compatible with the device may cause a fire and seriously damage the device. Only use fuses of the same type. Observe the labelling on the device casing and the information in the "Technical data" chapter.



NOTICE!

Possible staining due to plasticiser in rubber feet!

The plasticiser contained in the rubber feet of this product may react with the coating of the floor and cause permanent dark stains after some time. If necessary, use a suitable mat or felt slide to prevent direct contact between the device's rubber feet and the floor.

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 fog or haze generated by the device may trigger smoke alarms.

3 Features

This fog machine is perfect for use on large stages and open air events.

Special features of the device:

- Professional fog machine with red housing
- Perfect for fire drills.
- Control via DMX (1 channel), via buttons and display on the device, or via radio remote control (item no. 464052, not included in the scope of delivery)
- Suitable for mobile use
- Stairville fluid tanks can be placed directly into the device
- Two carrying handles for easy handling
- Protection circuit prevents the fluid pump from running dry
- Electronic temperature control

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.

Place the device on a flat, stable surface that is at least twice as large as the device. The device should be installed horizontally, with a maximum deviation of 15°. The device requires a 50 cm clearance on the sides and above.

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!

Data transfer errors due to improper wiring!

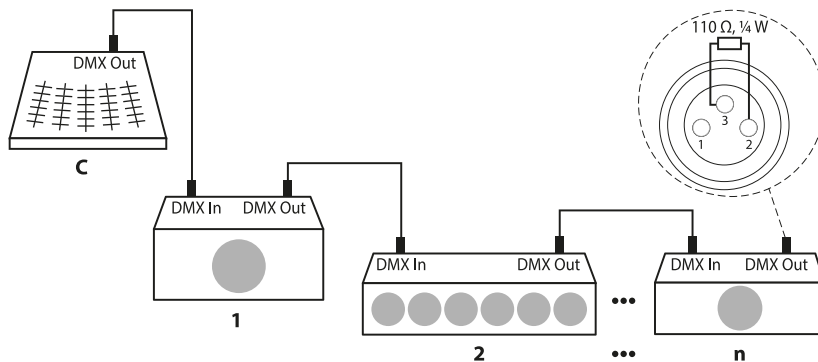
If the DMX connections are wired incorrectly, this can cause errors during the data transfer.

Do not connect the DMX input and output to audio devices, e.g. mixers or amplifiers.

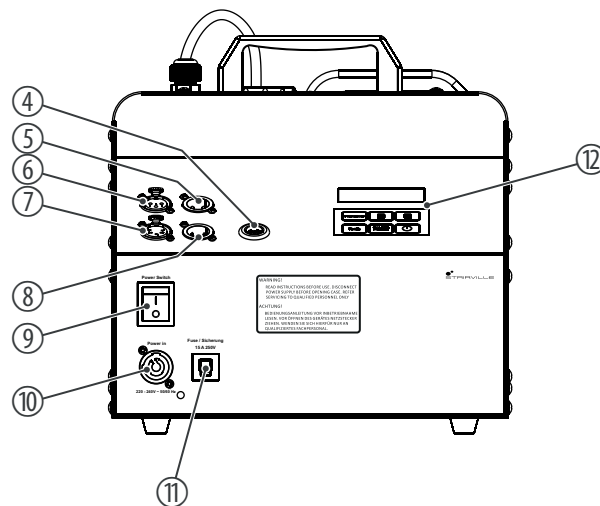
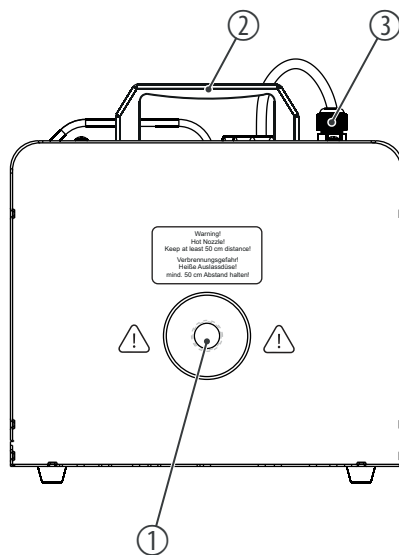
Use special DMX cables for the wiring instead of normal microphone cables.

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



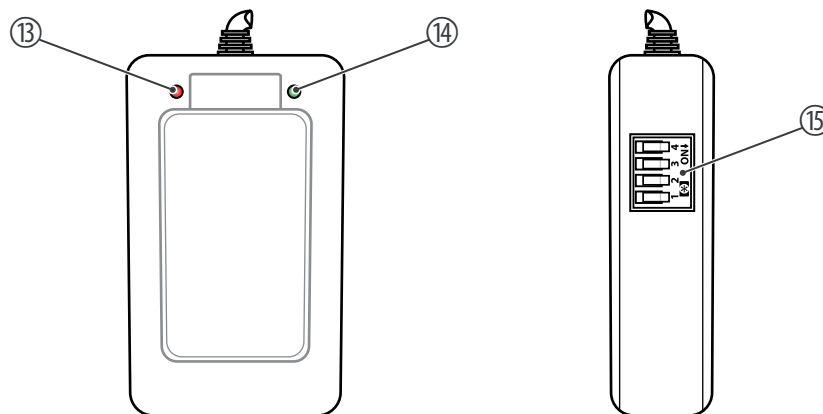
6 Connections and controls



1 Fog nozzle

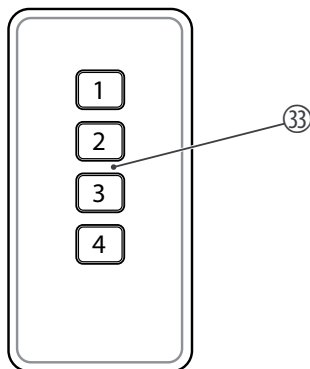
2 Carrying handle

3	Fog fluid container with screw cap
4	[REMOTE CONTROL] Connection for the optional module for setting the device ID for the radio remote control
5	[DMX IN] DMX input, designed as XLR panel plug, 3-pin
6	[DMX OUT] DMX output, designed as XLR panel socket, 3-pin
7	[DMX OUT] DMX output, designed as XLR panel socket, 5-pin
8	[DMX IN] DMX input, designed as XLR panel plug, 5-pin
9	[Power Switch] Main switch. Turns the device on and off.
10	[Power in] Lockable input socket (Power Twist TR1) for the power supply of the device
11	[Fuse] Resettable electronic fuse. If the fuse is triggered, replace the fuse and then push the button to reset the fuse.
12	Display with function buttons
	[FUNCTION] Activates the main menu and toggles between menu items.
	[TIMER] Starts timer-controlled operation.
	[VOLUME/PUMP/FAN] Starts manual operation.
	 Increases the displayed value by one.
	 Decreases the displayed value by one.
	 Closes a menu item.

Radio receiver with module for setting the device ID (optional)

- | | |
|----|--|
| 13 | The LED indicates that the device is heating up. |
| 14 | The LED indicates that the device has reached the operating temperature necessary to produce fog. |
| 15 | DIP switch for setting the device ID between 1 and 4. Set the switch corresponding to the required ID to 'ON'. |

Radio remote control (optional)



16 *[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 Operation

Filling the device

**NOTICE!****Damage to the device due to the use of unsuitable fog fluids!**

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

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

First, make sure the device is switched off.

Open the screw cap of the fluid container and fill in the fog fluid or place a Stairville fluid tank in the device. When filling in the fluid, make sure that no fog fluid is spilled or gets into the device. The easiest way to do so is to use a funnel.

Screw the cap firmly back on.

Switching on the device



NOTICE!

Risk of undetected fires in the absence of supervision!

There is a general risk of fire when operating the device. If the appliance is left unattended, fires can go undetected and cause great damage.

Never operate the device unattended.

Connect the device to the power grid. The display shows the version number of the device.

Turn on the device using the main switch. During the heating process, the display shows *'Heating 0% to 100%'* and the fill level indicator on the side of the device lights up red.

As soon as the required operating temperature is reached, the display shows *'Machine Ready'* and the fill level indicator on the side of the device lights up blue.

During operation, always ensure that there is sufficient fog fluid in the fluid container. The built-in protection circuit prevents the fluid pump from running dry

Dry-run protection

An electronic protection circuit switches off the pump when the fluid container and hose are empty.

If the protection circuitry is activated, the colour of the fill level indicator on the side of the device changes from blue to red and starts flashing. The display shows '*Beware: No Liquid!*'. Turn the device off using the main switch and disconnect it from the grid.

Top up fog fluid or place a new Stairville fluid tank in the device. Connect the device to the power grid again and turn it on with the main switch.

To reactivate the electronic protection circuitry, press *[FUNCTION]* repeatedly until the display shows '*Sensor Set: ON*'.

If the device is operated with the setting '*Sensor Set: OFF*', the electronic protection circuitry is disabled. Operation with an empty fluid container can lead to overheating and permanently damage the pump. When operating the device, always ensure that there is sufficient fog fluid in the fluid container to avoid running it without fluid.

Decommissioning the device

Turn the device off using the main switch and disconnect it from the grid. Do not transport the device before it has cooled down completely. To avoid leaking fog fluid during transport, you should transport the device only with empty fluid container.

7.1 Basic settings

DMX address

1. ➤ Press **[FUNCTION]** repeatedly until the display shows 'DMX Address Set: 1'.
2. ➤ Press  or  to set the DMX address in the range between 1 and 512.
 - ⇒ The selection is applied automatically. The display shows the set DMX address (e.g. 'DMX-512 Add: 1') and 'Smoke: 0 %'.
3. ➤ Use a connected DMX controller to set the fog amount in a fog blast:

Channel	Value	Function
CH1	0	No fog blast
	1...255	Fog blast between 1% and 100%



Please note that manual control is deactivated when operating with DMX. After removing the DMX connection, the fog output can be activated again manually on the device.

Fog amount in a fog blast

1. ➤ Press *[FUNCTION]* repeatedly until the display shows *'Timer Volume Output: 50%'*.
2. ➤ Press  or  to set the fog amount in a fog blast to between 0% and 100% and *'NonStop'* (continuous operation).
⇒ The selection is applied automatically.



The 'NonStop' (continuous operation) setting makes it possible to blast fog without interruption for a maximum of five minutes.

3. ➤ Press  to exit the settings menu. The display shows *'Machine Ready'*.

Interval between two fog blasts

1. ➤ Press *[FUNCTION]* repeatedly until the display shows *'Timer Interval: 15S'*.
2. ➤ Press  or  to set the interval between two fog blasts to between 1 s and 600 s.
⇒ The selection is applied automatically.



The interval between two fog blasts must be at least 10 seconds.

3. ➤ Press  to exit the settings menu. The display shows *'Machine Ready'*.

Fog blast duration

1. ➤ Press *[FUNCTION]* repeatedly until the display shows *'Timer Duration: 10S'*.
2. ➤ Press  or  to set the duration of a fog blast to between 1 s and 600 s.
⇒ The selection is applied automatically.



The fog blast must be at least 10 seconds long.

3. ➤ Press  to exit the settings menu. The display shows *'Machine Ready'*.

7.2 Manual control

Manual operation

1. ➤ Press [VOLUME/PUMP/FAN] to switch on manual operation.
⇒ The display shows 'Manual output' and 'Smoke: 100%'.
2. ➤ Press  or  to set the fog amount to between 0% and 100% and 'NonStop' (continuous operation).



The 'NonStop' (continuous operation) setting makes it possible to blast the maximum fog quantity without interruption for a maximum of five minutes.

⇒ The set amount of fog is emitted regardless of the other settings.

3. ➤ Press  to switch off manual operation.



Please note that manual control is deactivated when operating with DMX. After removing the DMX connection, the fog output can be activated again manually on the device.

Time-controlled operation

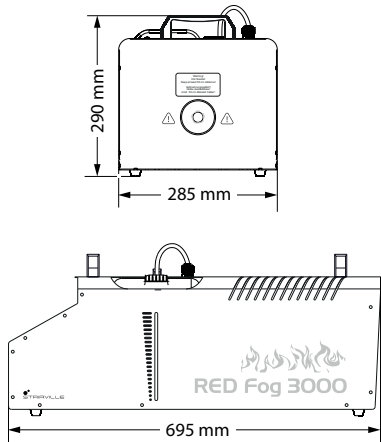
In time-controlled operation, the amount of fog set under '*Timer Volume Output*' is emitted at the interval that you have set under '*Timer Interval*' and for the duration that you have set under '*Timer Duration*'.

1. ➤ Press [TIMER] to switch on time-controlled operation.
⇒ The set amount of fog is emitted continuously.
2. ➤ Press $\odot$ to turn off time-controlled operation.

Manual control via the radio remote control

1. ➤ Connect the radio receiver with module for setting the device ID to the [REMOTE CONTROL] connection socket.
2. ➤ While the device is heating up, the red LED on the module lights up. Once the required operating temperature is reached, the green LED of the module lights up.
3. ➤ Use the DIP switches 1...4 to set the device ID.
4. ➤ If the device is not controlled via DMX, you can control the fog blast using the buttons [A]...[D] on the remote control. [A] controls the devices with ID 1, [B] those with ID 2 and so on.

8 Technical specifications



Heater power	2200 W	
Warm-up time	approx. 6 min	
Fluid container capacity	6 l	
Fluid consumption	approx. 130 ml/min	
Fog output	approx. 630 m ³ /min	
Fog blast duration, max.	22 s at 100%	
Fog blast reach	approx. 9 m	
Post-heating time	approx. 15 s	
Control	DMX, buttons and display on the device, remote control	
Input connections	Power supply	Lockable input socket (Power Twist)
	DMX control	XLR panel plug, 3-pin
		XLR panel plug, 5-pin
	Radio remote control receiver	DIN socket, 5-pin
Output connections	DMX control	XLR panel socket, 3-pin

		XLR panel socket, 5-pin
Power consumption	3000 W	
Supply voltage	220 V - 240 V ~ 50/60 Hz	
Fuse	5 mm × 20 mm, 15 A, 250 V, fast blow	
International Protection Rating	IP20	
Mounting options	Upright	
Dimensions (W × H × D)	285 mm × 290 mm × 695 mm	
Weight	14.5 kg	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Further information

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 Fluid (item no. 105456)
DMX control	Yes
Blast direction	Horizontal
Timer remote control included	No
On/Off remote control included	No
Radio remote control included	No (optionally available, item no. 464052)
Light effect	No
Battery operation	No
Hanging bracket	No

9 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 device is not working	Check the mains connection and the main fuse.
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 fog output	1. Check the fill level in the fog fluid container.
	2. Switch off the device and check that fluid can flow through the hose that leads into the fluid container.
	3. Check whether the electronic protection circuit has been reset after tripping, see  'Dry-run protection' on page 21.

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

10 Cleaning



NOTICE!

Potential damage caused by unsuitable cleaning agents

Cleaning agents not approved by the manufacturer may permanently damage the device.

Only use the fog machine cleaners listed on www.thomann.de and follow their instructions for use.

Clean the appliance after every 40 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 device 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.
 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 produce again fog for about 20 seconds. This will rinse the lines.
- ⇒ Cleaning is complete.

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.

11 Protecting the environment

Disposal of the packing material



Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging.



Observe the disposal note regarding documentation in France.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. When disposing of the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste management facility. Proper disposal protects the environment as well as the health of your fellow human beings.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal.

You can return your old device to Thomann GmbH at no charge. Check the current conditions on www.thomann.de.

If your old device contains personal data, delete those data before disposing of it.

