

**Drums**  
**Millenium**

MPS-150

E-Drum Module

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26.04.2024, ID: 360221 (V4)

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# 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](http://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
<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>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 – danger zone.

## 2 Safety instructions

### Intended use

Drum modules are intended to be used for converting digital trigger signals from drum pads to various percussion sounds. Use the unit only as described in this 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.



**WARNING!****Possible hearing damage due to high volumes on speakers or headphones!**

With speakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage. Do not operate the device permanently at a high volume level. Decrease the volume level immediately if you experience ringing in your ears or hearing impairment.

**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 external power supply due to high voltages!**

The device is powered by an external power supply. The external power supply 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 external power supply matches the local power grid before plugging in the power supply. Only operate the external power supply from professionally installed mains sockets that are protected by a residual current circuit breaker (FI). As a precaution, disconnect the power supply from the power grid when storms are approaching or if the device will not be used for a longer period.

**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.

### 3 Features

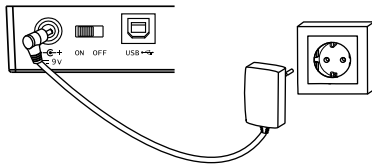
- 108 voices
- 10 pre-programmed drum kits
- 40 pre-programmed patterns
- 128 MIDI sounds
- Metronome
- Flexible assignment of pad voices
- Reverb effect, voice tuning
- Individual adjustment of accompaniment and drum track
- Connections for headphones, AUX, USB and MIDI
- Power adapter (included)
- Operating system: Windows® 8 and later, Mac OS X® 10.8 and later

## 4 Installation

### Setup, connecting pads and pedals

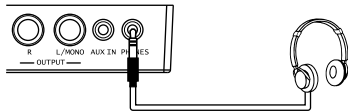
Setup and assembly of the pads and pedals are described in detail in the enclosed assembly instructions. Finally, check that all connecting cables are correctly connected between the pads and the drum module.

### Connecting the power supply



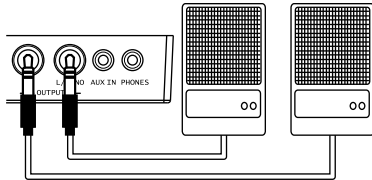
Connect the included power supply to the 9-V connector of the device and then plug the power adapter into a wall outlet.

### Connecting headphones



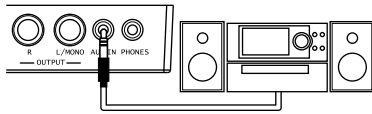
Connect your stereo headphones to the PHONES output of the drum module.

## Connecting audio devices



Connect the inputs of your amplifier or active monitor to the OUTPUT sockets of the drum module. If you are using a mono amplifier, connect its input to the L/MONO output socket of the module.

## Connecting a CD or MP3 player



Connect a CD or MP3 player to the AUX IN input socket of the drum module.

## Connecting MIDI devices

Connect external MIDI devices to the MIDI OUT socket of the drum module.

## Connecting USB devices

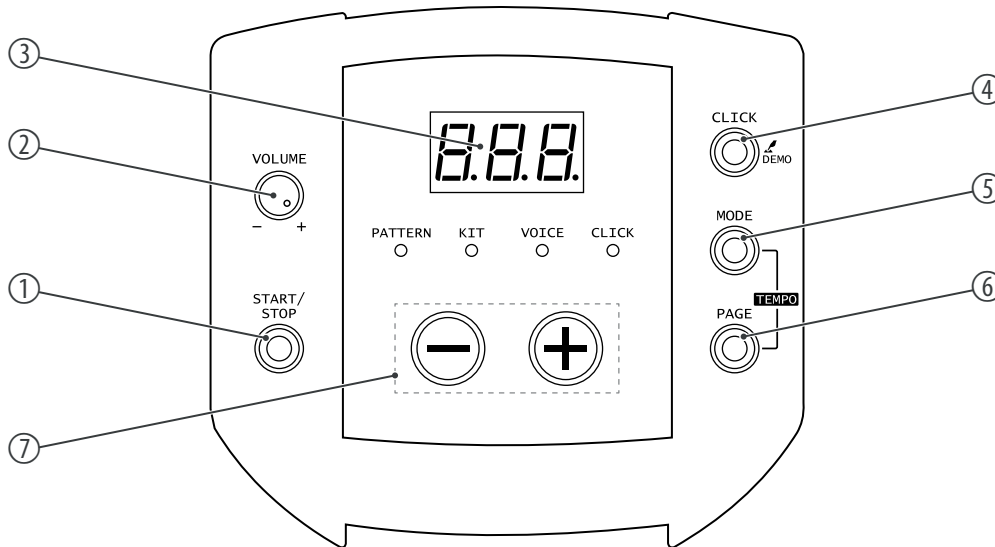
Connect external MIDI devices or your computer to the USB port of the drum module.



*Use a current operating system still supported by the provider to avoid technical difficulties.*

## 5 Connections and controls

### Front

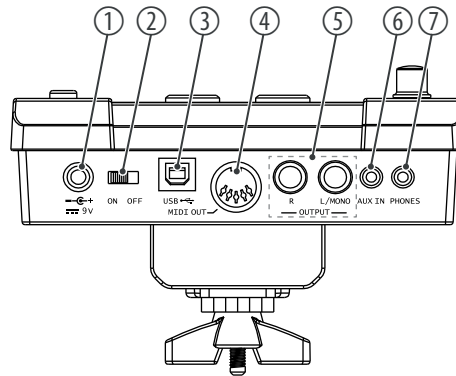


## Connections and controls

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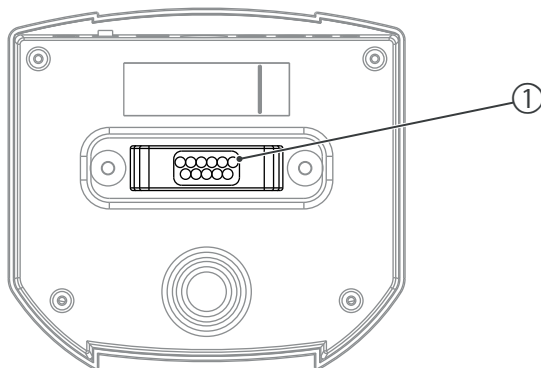
1	[START/STOP]   Button for starting and stopping the playback of songs
2	[VOLUME]   Volume control for the audio and headphone output of the device
3	3-digit LED display
4	[CLICK]/[DEMO]   Button for switching the metronome on and off and for playing the demo song
5	[MODE]   Button for opening the selection menu
6	[PAGE]   Button for scrolling in the open menu
7	[+]/[-]   Increases or decreases the currently displayed value

## Back



1	[9 V]   Connection socket for the plug-in power supply for power supply
2	[ON/OFF]   Main switch for switching the device on and off
3	[USB]   Connection socket for a USB cable
4	[MIDI OUT]   Socket for an external MIDI device to send MIDI commands
5	[OUTPUT – R/L/MONO]   Output for external audio equipment (mono / stereo)
6	[AUX IN]   Input for external audio devices such as MP3 or CD players
7	[PHONES]   Connection socket for headphones

### Underside



- 1 Multiple socket for connecting the pads



## 6 Operation

### 6.1 Functions

#### Switching on



*Check all cable connections for correct fit before turning on  
Before switching the device on, turn the [VOLUME] control to minimum.*

Use the [ON/OFF] switch on the back of the device to switch on the drum module.



#### *Automatic shutoff*

- *When the device is not used it automatically shuts off after 30 minutes. To turn it back on, put the on/off switch in the 'OFF' position and then back in the 'ON' position.*

#### *Disabling automatic shutoff*

- *To disable the automatic shutoff function, press and hold [START/STOP] while turning the device on.  
The message 'PoF' appears on the display as confirmation.*

### Adjusting the volume

To adjust the volume, hit a pad while slowly turning the *[VOLUME]* control clockwise.

## 6.2 Demo song

To play the pre-programmed demo piece, proceed as follows:

- 1.** ▶ Press *[CLICK]* for about two seconds.
  - ⇒ The pre-programmed demo song sounds, the display shows 'dE'.
- 2.** ▶ Stop playback with *[START/STOP]*.

## 6.3 Playing and adjusting patterns

### Selecting patterns

Your digital drum set features a total of 40 pre-programmed patterns. Pattern '001' is displayed by default when the drum module is turned on.



The pattern list is available for download on the product page at [www.thomann.de](http://www.thomann.de).

1. ▶ Press **[MODE]** repeatedly until the **[PATTERN]** LED lights up.  
⇒ The display shows the pattern number.
2. ▶ Use **[-]** and **[+]** to select the required pattern.

### Playing patterns

1. ▶ Select the desired pattern as described above.
2. ▶ Start and stop playback with **[START/STOP]**.

### Adjusting pattern volume

1. ▶ Press **[MODE]** repeatedly until the **[PATTERN]** LED lights up.  
⇒ The display shows the pattern number.

- ▶ Press *[PAGE]* repeatedly until the display shows the pattern volume in the 'Axx' format.
- ▶ Use *[-]* and *[+]* to adjust the volume between 00 and 32.  
The setting is automatically stored.

### Adjusting drum volume

- ▶ Press *[MODE]* repeatedly until the *[PATTERN]* LED lights up.  
⇒ The display shows the pattern number.
- ▶ Press *[PAGE]* repeatedly until the display shows the drum volume in the 'dxx' format.
- ▶ Use *[-]* and *[+]* to adjust the volume between 00 and 32.  
The setting is automatically stored.

### Adjusting playback speed

- ▶ Press *[MODE]* and *[PAGE]* simultaneously.  
⇒ The display shows the playback speed.
- ▶ Adjust the playback speed using *[-]* and *[+]* (setting range: 30 to 280 beats per minute).  
The setting is automatically stored.

## 6.4 Selecting and adjusting drum kits

You can select one of the pre-programmed drum kits. The pre-programmed voices of the drum module can be programmed to any of the connected pads.



*The drum kit list and the voice list are available for download on the product page at [www.thomann.de](http://www.thomann.de).*

### Selecting a drum kit

To select a certain drum kit, proceed as follows:

1. ▶ Press **[MODE]** repeatedly until the **[KIT]** LED lights up.  
⇒ The display shows the kit number.
2. ▶ Use **[-]** and **[+]** to select the required kit.  
The setting is automatically stored.

### Adjusting kit volume

1. ▶ Press **[MODE]** repeatedly until the **[KIT]** LED lights up.  
⇒ The display shows the kit number.

2. ▶ Press *[PAGE]* repeatedly until the display shows the kit volume appears in the 'Lxx' format.
3. ▶ Use *[-]* and *[+]* to adjust the volume between 00 and 32.  
The setting is automatically stored.

### Turning reverb on and off

To turn the reverb effect on or off, proceed as follows:

1. ▶ Press *[MODE]* repeatedly until the *[KIT]* LED lights up.  
⇒ The display shows the kit number.
2. ▶ Press *[PAGE]* repeatedly until the display shows the current reverb effect setting ('roN': on or 'roF': off).
3. ▶ Change the setting using *[-]* and *[+]*.  
The setting is automatically stored.

## Assigning a voice

To programme a certain voice for a pad, proceed as follows:

1. ➤ Press *[MODE]* until the *[VOICE]* LED lights up.
2. ➤ Hit the respective pad to activate it.
3. ➤ Press *[PAGE]* repeatedly until the display shows the number of the currently assigned voice.
4. ➤ Select the desired voice using *[-]/[+]*.  
The setting is automatically stored.



*Only voices from group 1 – group 4 can be assigned to a hi-hat. The display shows 'H-I'.*

### Adjusting the voice volume

You have the option to adjust the volume of each voice independently. To do so proceed as follows:

- 1.** ▶ Press *[MODE]* until the *[VOICE]* LED lights up.
- 2.** ▶ Hit the respective pad to activate it.
- 3.** ▶ Press *[PAGE]* repeatedly until the display shows the Voice volume in the 'Lxx' format.
- 4.** ▶ Adjust the volume using *[-]/[+]* (setting range: 0 to 32).

The setting is automatically stored.



**Adjusting an assigned MIDI note** You have the option to change the MIDI note assigned to a pad. To do so proceed as follows:

1. ➤ Press *[MODE]* until the *[VOICE]* LED lights up.
2. ➤ Hit the respective pad to activate it.
3. ➤ Press *[PAGE]* repeatedly until the display shows the assigned MIDI note in the 'Nxx' format.
4. ➤ Adjust the number using *[-]/[+]* (setting range: 0 to 99).  
The setting is automatically stored.

The following table shows the MIDI mapping in default setting.

No.	Name	Assigned MIDI note
1	Crash 1	49
2	Tom 1	48
3	Tom 2	45
4	Tom 3	43
5	Ride	51
6	Kick	36
7	Snare	38

No.	Name	Assigned MIDI note
8	Hi-hat close	42
9	Hi-hat open	46
10	Hi-hat pedal	44

## 6.5 Setting up and using the click (metronome)

### Using the click function

1. ▶ Press *[CLICK]* to turn on the click.  
⇒ The *[CLICK]* LED flashes along to the beat, the click sounds.
2. ▶ Press *[CLICK]* again to turn off the click function.

### Setting the speed

1. ▶ Press *[MODE]* and *[PAGE]* simultaneously.  
⇒ The tempo appears on the display, for example '103'.
2. ▶ Select a tempo between 30 and 280 using *[-]* and *[+]*.  
The setting is automatically stored.

## Setting the time signature

1. ➤ Press *[MODE]* until the *[CLICK]* LED lights up.
2. ➤ Press *[PAGE]* repeatedly until the display shows the set time signature, e.g. '4-4'.
3. ➤ Choose the time signature using *[-]* and *[+]* from a selection of 1/4 to 7/4, 3/8 and 6/8.  
The setting is automatically stored.

Click tempo and time signature are automatically adjusted when playing patterns and can not be changed.

## Setting the click interval

1. ➤ Press *[MODE]* until the *[CLICK]* LED lights up.
2. ➤ Press *[PAGE]* repeatedly until the display shows the set click interval, e.g. '--4'.
3. ➤ Select the beat interval using *[-]* and *[+]*. Possible values are: 1/4, 1/8, 1/12, 1/16, 1/24, default value: 1/4.  
The setting is automatically stored.

### Setting the click sound

1. ▶ Press *[MODE]* until the *[CLICK]* LED lights up.
2. ▶ Press *[PAGE]* repeatedly until the display shows the set sound, the so-called “click instrument”, in the ‘CLx’ format.
3. ▶ Use *[-]* and *[+]* to select the sound. Possible values are: CL1 – CL5, default value: CL1.  
The setting is automatically stored.

### Setting the click volume

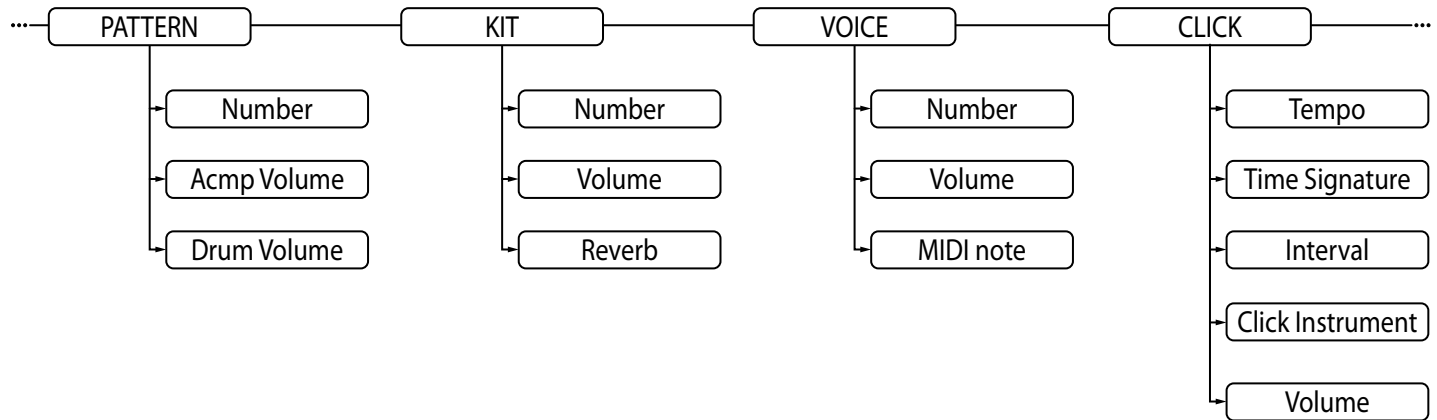
1. ▶ Press *[MODE]* until the *[CLICK]* LED lights up.
2. ▶ Press *[PAGE]* repeatedly until the display shows the set volume, e.g. ‘L24’.
3. ▶ Use *[-]* and *[+]* to adjust the volume between 0 and 32.  
The setting is automatically stored.

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## 6.6 Reset to factory default setting

1. ▶ Simultaneously hold down [-] and [+]
2. ▶ Press [ON/OFF] to switch the device on.
  - ⇒ The device is reset to factory defaults.

## 6.7 Menu overview



## 7 MIDI implementation

Function		Transmitted	Recognized	Remarks
Basic channel	Default	Ch 10	1-16	
	Changed	No	No	
Mode	Default	No	No	
	Messages	No	No	
	Altered	*****	*****	
Note number		0...127	0...127	
	True voice	*****	0...127	
Velocity	Note ON	Yes (99H, V=1...127)	0...127	
	Note OFF	Yes (99H, V=0)	0...127	
Aftertouch	Keys	No	No	
	Channels	No	No	
Pitch bender		No	Yes	
Control change	0	No	Yes	Bank select
	1	No	Yes	Modulation

Function	Transmitted	Recognized	Remarks
5	No	Yes	Portamento time
6	No	Yes	Data entry
7	No	Yes	Volume
10	No	Yes	Pan
11	No	Yes	Expression
64	No	Yes	Sustain pedal
65	No	Yes	Portamento ON/OFF
66	No	Yes	Sostenuto pedal
67	No	Yes	Soft pedal
80	No	Yes	Reverb program
81	No	Yes	Chorus program
91	No	Yes	Reverb level
93	No	Yes	Chorus level
120	No	Yes	All Sound Off
121	No	Yes	Reset All Controllers
123	No	Yes	All Notes Off



Function		Transmitted	Recognized	Remarks
Program change		Yes	Yes	
System exclusive		No	Yes	
System common	Song Position	No	No	
	Song Select	No	No	
	Tune	No	No	
System real time	Clock	Yes	No	START and STOP only
	Command	Yes	No	
Aux messages	Local ON/OFF	No	No	
	All Notes OFF	No	No	
	Active Sense	Yes	No	
	System reset	No	No	

## 8 Technical specifications

Input connections	Power supply	Connection socket for the power adapter
	USB port	USB
	Combined trigger connection	1 × D-sub connector
	AUX in	1 × 3.5 mm jack socket
Output connections	Headphones	1 × 3.5 mm jack socket
	Mono output	1 × 6.35-mm jack socket
	Stereo output	1 × 6.35-mm jack socket
	MIDI out	2 × DIN panel socket, 5-pin
Voices		108
MIDI sounds		128 (The MIDI lists are available for download on the product page at <a href="http://www.thomann.de">www.thomann.de</a> .)
Effects		Reverb
Drum kits		10 preset kits
Demo and practise songs		40 pre-programmed patterns, 1 demo song
Power supply		External power adapter, 100 - 240 V ~ 50/60 Hz

Operating voltage		9 V $\overline{\text{=}}$ , 2,000 mA, centre positive
Operating system		Windows® 8 and later, Mac OS X® 10.8 and later
Dimensions (W × H × D)		260 mm × 130 mm × 185 mm
Weight		0.37 kg
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

### Further information

Including Rack	Yes
Including Seat	No
Including Bass drum pedal	Yes
Including Headphones	No
Mesh head pads	No
Pads in stereo	No
Number of direct outputs	0

## 9 Plug and connection assignment

### Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment in such a way that a perfect sound experience is ensured.

Please note these advices, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into the socket, an incorrect connection may result in a destroyed power amp, a short circuit or 'just' in poor transmission quality!

### Balanced and unbalanced transmission

Unbalanced transmission is mainly used in semi-professional environment and in hifi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielding while the signal is transmitted through the core.

Unbalanced transmission is susceptible to electromagnetic interference, especially at low levels, such as microphone signals and when using long cables.

In a professional environment, therefore, the balanced transmission is preferred, because this enables an undisturbed transmission of signals over long distances. In addition to the conductors 'Ground' and 'Signal', in a balanced transmission a second core is added. This also transfers the signal, but phase-shifted by 180°.

Since the interference affects both cores equally, by subtracting the phase-shifted signals, the interfering signal is completely neutralized. The result is a pure signal without any noise interference.

**1/4" TS phone plug (mono, unbalanced)**



1	Signal
2	Ground, shielding

**1/4" TRS phone plug (mono, balanced)**



1	Signal (in phase, +)
2	Signal (out of phase, -)
3	Ground

## 10 Cleaning

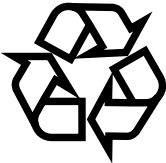
### Device parts

Clean the accessible parts of the device regularly. The frequency of cleaning depends on the operating environment: moist, smoky or particularly dirty environments may cause a higher accumulation of dirt on the components of the device.

- Use a dry soft cloth for cleaning.
- Remove stubborn stains with a slightly damp cloth.
- Never use cleaners containing alcohol or thinner.
- Never put any vinyl items on the device, as vinyl can stick to the surface or lead to its discolouration.

# 11 Protecting the environment

## Disposal of the packing material



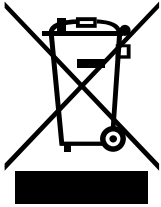
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on [www.thomann.de](http://www.thomann.de).

Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them.

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.

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









