

***Millenium*** <sup>Drums</sup>

RT-1 8" Practice Pad

Drum Pad

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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 – dangers due to batteries.
	Warning – danger zone.

## 2 Safety instructions

### Intended use

Mobile Drums are used to convert digital trigger signals from drum pads into various drum sounds. 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.



#### **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.

**WARNING!****Incorrect handling of lithium batteries can result in injury!**

In the event of a short circuit, overheating or mechanical damage, lithium batteries can cause severe injuries. Handle lithium batteries in a correct and professional manner. Store lithium batteries in a cool and dry place in their original packaging. Keep lithium batteries away from sources of heat. Never open lithium batteries. Only charge rechargeable lithium batteries with a suitable charger. Remove the lithium batteries before disposing of the device. Cover the poles of used lithium batteries with adhesive tape to prevent short circuits. Electrolyte can escape from damaged lithium batteries. Put the damaged lithium battery in air-tight packaging. Collect the electrolyte with absorbent paper. Wear rubber gloves while doing so.

**NOTICE!****Possible damage to lithium-ion batteries through incorrect storage!**

Deep discharge can permanently damage lithium-ion batteries or cause them to lose some of their capacity. Charge the lithium-ion batteries before longer breaks in use and before storage. Ensure that the device is switched off for storage. Store the device at room temperature or cooler in an environment as dry as possible. Recharge the lithium-ion batteries about every three months if they are stored for a longer period of time to avoid permanent damage due to too deep self-discharge. Fully charge the lithium-ion batteries only shortly before use at room temperature.

**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!**

#### **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

- 5 different sounds
- Colour display
- Battery life approx. 15 h
- Metronome (30...280 bpm)
- Beat counter – counts the number of beats within 10, 30, 45, 60, 75 or 90 seconds
- Adjustable rhythm (1...9 beats)
- Speed detection mode – analyses the speed of the beats
- Built-in speaker
- 3.5 mm headphone output
- Built-in lithium-ion battery
- USB-C charge socket
- USB cable and tuning key (included in the scope of delivery)

## 4 Installation and starting up

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.



### **NOTICE!**

#### **Potential property damage due to unsuitable stands!**

If the device is mounted on an unsuitable stand, there is a risk that the stand will fall over and cause damage.

Only use stands whose maximum bearing capacity is at least as high as the weight of the device. Always ensure that the stand is stable.

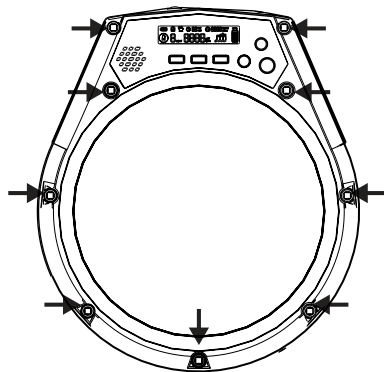
## Charging the battery

The device is equipped with a built-in lithium-ion battery. The battery can be charged via the USB port. Use the supplied USB cable to connect the device to a USB charger, a power bank or the USB port on a computer.

A battery symbol on the device display indicates the battery charge state. The battery symbol flashes during charging.



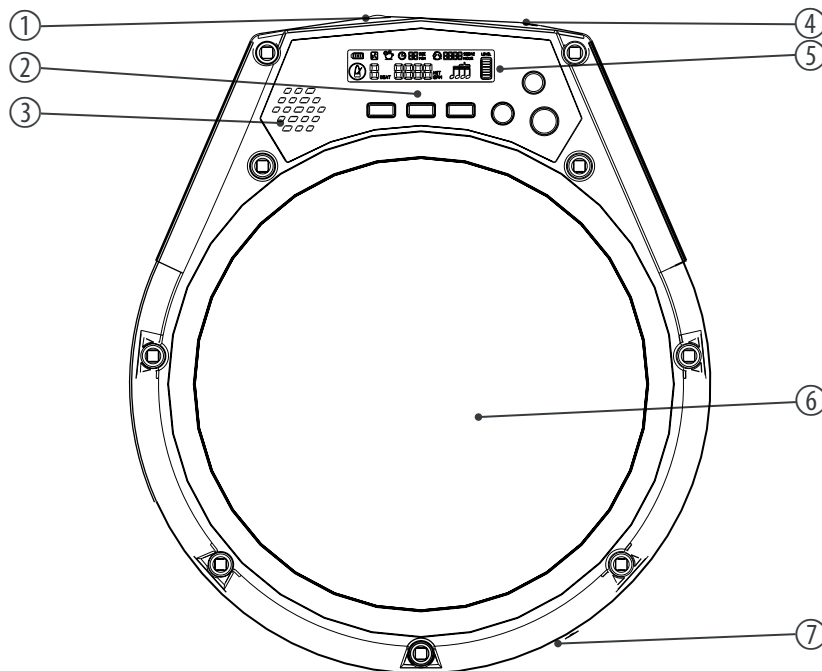
## Adjusting the mesh tension



You can adapt the mesh tension to your needs and ensure that the drum pad feels as authentic as possible. Make sure that the mesh is neither too loose nor too tense, otherwise the drum pad may no longer respond.

Turn the tension screws arranged around the mesh anti-clockwise with the supplied tuning key to reduce the tension, and turn them clockwise to increase the tension. Always make your adjustments on all tension screws, for even tension across the mesh. Start with the tension screw on the top left and then move to the next tension screw in anti-clockwise direction.

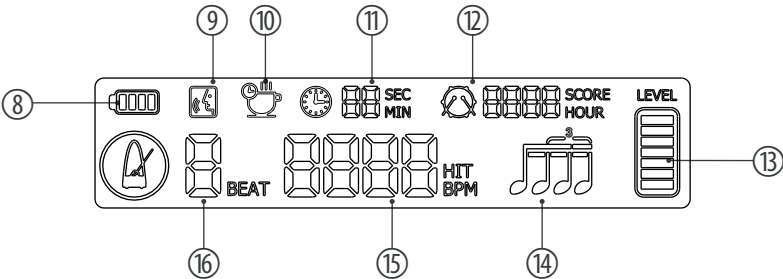
## 5 Connections and controls



1	<i>[VOL.]</i>   Turn this control clockwise to increase the volume. Turn it anti-clockwise to reduce the volume.
2	<p>Operating elements</p> <p><i>[MODE]</i>   Press and hold this button to select the operating mode. You can choose between the metronome, beat counter and speed detection modes. The display changes accordingly.</p> <p>Press the button briefly in any mode to select the practise time.</p> <p><i>[VOICE]</i>   Press this button briefly in metronome mode to select the metronome rhythm. Press and hold the button to switch off the metronome rhythm.</p> <p>In the beat counter and speed detection modes, press the button briefly to select one of 5 percussion sounds for the drum pad.</p> <p><i>[CLEAR/BEAT]</i>   Press this button briefly in metronome mode to select the number of beats for the metronome. Press and hold it to choose one of 3 metronome sounds.</p> <p>In the beat counter mode, press and hold the button to reset the saved fastest times.</p> <p>▲   Use this button to increase the metronome tempo.</p> <p>▼   Use this button to reduce the metronome tempo.</p> <p><i>[START]</i>   Press and hold this button to switch the device on or off.</p> <p>In metronome mode, press the button briefly to start and stop the metronome.</p> <p>In the beat counter and speed detection modes, press the button briefly to reset the practise time.</p>
3	Speaker that plays the metronome and percussion sounds when no headphones are in use.
4	<i>[USB 5 V]</i>   USB port for connecting an external USB device or USB power supply to charge the device.

5	Display for showing the operating modes
6	Hit the pad to trigger the selected percussion sound. You can adjust the tension of the mesh head. You can hit the mesh head with sticks, percussion beaters or your hands.
7	Headphone connection for connecting headphones with a 3.5 mm jack plug. The speaker is switched off as soon as headphones are plugged in.

Display



8	Shows the charge state of the built-in lithium battery. The charge state shows four bars when the battery is fully charged.
9	Shows that the voice is active in metronome mode.

10	Shows that pause mode is active in speed detection mode. The symbol appears after 1 minute of the drum pad not being hit.
11	Shows the metronome mode and the elapsed practise time; in the beat counter and speed detection modes, it shows the set remaining practise time.
12	Shows the counted beats or the total practise time in hours, depending on operating mode. The total practise time starts at 0 again after 9999 hours.
13	Shows the touch velocity of the drum pad via a multi-segment bar. The reaction of the display depends on the velocity with which you hit the drum pad, and on where you hit it.
14	Shows the set rhythm in metronome mode.
15	Shows the set tempo in bpm in the metronome and speed detection modes, and the counted beats in the beat counter mode.
16	Shows the set beat in metronome mode.

## 6 Functions

### Switching on and off

To turn the device on and off, press and hold the *[START]* button until the device is turned on or off.

The device switches off automatically if it is not used for 5 minutes.

### Adjusting the volume

Use the *[VOL.]* rotary control on the front of the device to adjust the volume. Turn the control clockwise to increase the volume. Turn it anti-clockwise to reduce the volume.

### Setting the operating mode

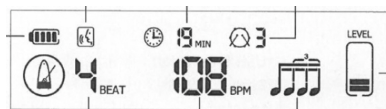
The device has three different operating modes.

- Metronome mode
- Beat counter mode
- Speed detection mode

When the device is switched on, it is always in metronome mode. Press and hold the *[MODE]* button to switch from one mode to the next.



## Metronome mode



In metronome mode you can practise to the metronome beat. The current metronome settings are shown on the display.

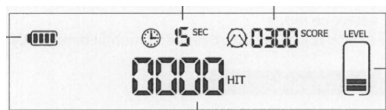
1. ➤ Press buttons ▲ and ▼ to adjust the metronome (30...280).
2. ➤ Press the [CLEAR/BEAT] button to adjust the number of beats per measure (1...9).  
Press and hold the [CLEAR/BEAT] button to adjust the metronome sound (1...3).
3. ➤ Press the [VOICE] button to select the rhythm for the metronome. The rhythm is indicated by corresponding note symbols (♩, ♪, ♫, ♬, ♮, ♯, ♭, ♭♭, ♯♯).

**JSH: Please supply individual vector file or vector file from the manufacturer's instructions containing the correct rhythm patterns.**

Press and hold the [VOICE] button to adjust the voice (1...3).

4. ➤ Press the [MODE] button to set the practise time (10, 20, 30, 40, 50, 60 minutes or unlimited).

## Beat counter mode



In the beat counter mode, you can count the individual drum pad hits within an adjustable practise time in order to practise your speed. The achieved beat number is automatically saved as a new best time for the set practise time if it exceeds the default best times.

Practise time	Best time	Practise time	Best time
10 s	100	60 s	400
30 s	200	75 s	500
45 s	300	90 s	600

1. ➤ Press and hold the *[MODE]* button to switch to the beat counter mode. The display changes accordingly. Repeat the process if necessary until the best time and the beat counter appear on the display.
2. ➤ Press the *[VOICE]* button to select a percussion sound for the drum pad (1...5).
3. ➤ Press the *[MODE]* button to set the practise time (10, 30, 45, 60, 75, 90 seconds or unlimited).
4. ➤ To reset the practise time, press *[START]*.
5. ➤ To reset the best times, press and hold the *[CLEAR/BEAT]* button until 'CLr' appears on the display.

Speed detection mode



In the speed detection mode, you can measure your average playing speed over an adjustable practise time in order to practise your timing. Your playing speed is averaged over the entire time and then displayed.

- 1.** ➤ Press and hold the *[MODE]* button to switch to the beat counter mode. The display changes accordingly. Repeat the process if necessary until the total hours of practise and the measured tempo are displayed.
- 2.** ➤ Press the *[VOICE]* button to select a percussion sound for the drum pad (1...5).
- 3.** ➤ Press the *[MODE]* button to set the practise time (1, 5, 10, 15, 20, 25, 30 minutes or unlimited).
- 4.** ➤ To reset the practise time, press *[START]*.

# 7    Technical specifications

Display		Colour display
Input connections	Power supply	USB-C
Output connections	Headphones	3.5 mm stereo jack socket
Operating voltage		5 V $\overline{\text{---}}$ / 800 mA via USB port
Battery	Battery type	Lithium-ion
	Voltage	3.7 V
	Capacity	1,300 mAh
	Operating time	15 h
	Charging time in the device	approx. 2 h
Dimensions (W × H × D)		265 mm × 40 mm × 300 mm
Weight		1 kg
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

### Further information

Can be mounted on a stand	Snare stand
Extras	Tuning key and USB-C cable included
Size	8"

# 8 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!

### Three-pole 1/8" mini phone jack (stereo, unbalanced)



1	Signal (left)
2	Signal (right)
3	Ground, shielding

## 9 Cleaning

### Components

Clean the externally accessible device parts regularly. The frequency of cleaning depends on the operating environment: wet, smoky or particularly dirty surroundings can cause more accumulation of dirt on the device parts.

- Clean with a soft dry cloth.
- Stubborn stains may be removed with a slightly damp cloth.
- Never use cleaners containing alcohol or thinner.
- Do not place vinyl objects on the device, as vinyl may stick to the surface or cause it to discolour.

## 10 Protecting the environment

### Disposal of the packaging material



For the 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 batteries



Batteries must not be thrown away or incinerated; they must be disposed of in accordance with local regulations for the disposal of hazardous waste. Use the existing collection points for this.

Only dispose of lithium batteries when they are discharged. Remove replaceable lithium batteries from the device before disposal. Protect used lithium batteries against short circuits, for example by covering the poles with adhesive tape. Permanently built-in lithium batteries must be disposed of together with the device. Please inquire about an appropriate collection point.



### 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 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.





