swissonic

DR-101

User Manual

Drum Machine

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DR-101
VOLUME
TEMPO / VALUE
RHYTHM
KIT
SONG
PATTERN
REC
X-STK
OPEN HH
MISC 1
MISC 2
MISC 3
CRASH 2
RD BELL
KICK
SNARE
CLOSE HH
TOM 1
TOM 2
TOM 3
CRASH 1
RIDE
ERASE
ENTER
FILL
FUNCTION

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.
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 – danger zone.

2 Safety instructions

Intended use

This device is used to generate drum kit sounds and to program rhythm patterns. 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 damage resulting from improper use.

This device may be used only by persons with sufficient physical, sensory, and intellectual abilities and the necessary 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.



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 an external power supply due to high voltages!

The device can be 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). Ensure that the power cord plug is easily accessible at all times if it is the only device to safely disconnect the device from the mains supply. As a precaution, disconnect the power supply from the power grid when storms are approaching or it the device will not be used for a longer period.

NOTICE!

Damage to the device due to use of unsuitable external power supplies!

If the device is operated with an unsuitable external power supply, the device can be damaged by overvoltage or incorrect polarity. If things go badly, using an unsuitable power supply can also cause a risk of injury and fire. Only use the external power supply designated for the device or an equivalent external power supply with identical parameters. If in doubt, compare the voltage specifications on the external power supply and the polarity (+/-) with the specifications in this manual and printed on the device. Voltage and polarity must always match.

NOTICE!

Risk of fire due to incorrect polarity!

Incorrectly inserted batteries may cause fires and destroy the device and the batteries. Observe the markings on the batteries and on the device. Ensure that proper polarity is observed when inserting batteries.

NOTICE!

Possible damage due to leaking batteries!

Batteries can leak and cause permanent damage to the device. Take the batteries out of the device if it is not going to be used for an extended period of time.

NOTICE!

Possible staining due to plasticiser in rubber feet!

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

3 Features

- 16 velocity-sensitive pads
- 32-voice polyphony
- 48 pre-programmed drum kits with 185 sounds in total
- 100 pre-programmed patterns, 100 user patterns
- 50 user songs
- Recording function
- Reverb effect
- Metronome function
- Headphone input
- Line output for connecting active speakers and similar
- OLED display
- Two built-in speakers
- Operation via USB-C or 4 × AA batteries (batteries not included)
- MIDI out and audio out via USB-C
- Security Lock
- USB-A to USB-C cable included

4 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.

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.

Connecting the power supply

Connect a 5V power supply to the ⇢ input socket on the back of the device and then plug the power plug into the socket.

Inserting batteries

NOTICE!

Risk of fire due to incorrect polarity!

Incorrectly inserted batteries may cause fires and destroy the device and the batteries.

Observe the markings on the batteries and on the device.

Ensure that proper polarity is observed when inserting batteries.

NOTICE!

Possible damage due to leaking batteries!

Batteries can leak and cause permanent damage to the device.

Take the batteries out of the device if it is not going to be used for an extended period of time.

The device can be operated with 4 × AA batteries (not included). Turn the device over, gently press the battery compartment cover and slide it outwards. Remove the cover. Insert the batteries in the battery compartment. Push the cover back into its original position until it engages.

Connecting headphones



WARNING!

Possible hearing damage due to high volumes on headphones!

The use of headphones at high volumes may result in permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage.

Avoid operating headphones at high volumes, in particular over an extended period of time.

Connect the headphones (not included) to the output socket on the back of the device. When you connect headphones, the internal speakers of the keyboard are automatically switched off.

Connecting external audio devices

WARNING!

Possible hearing damage due to high volumes on speakers!

With loudspeakers 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.

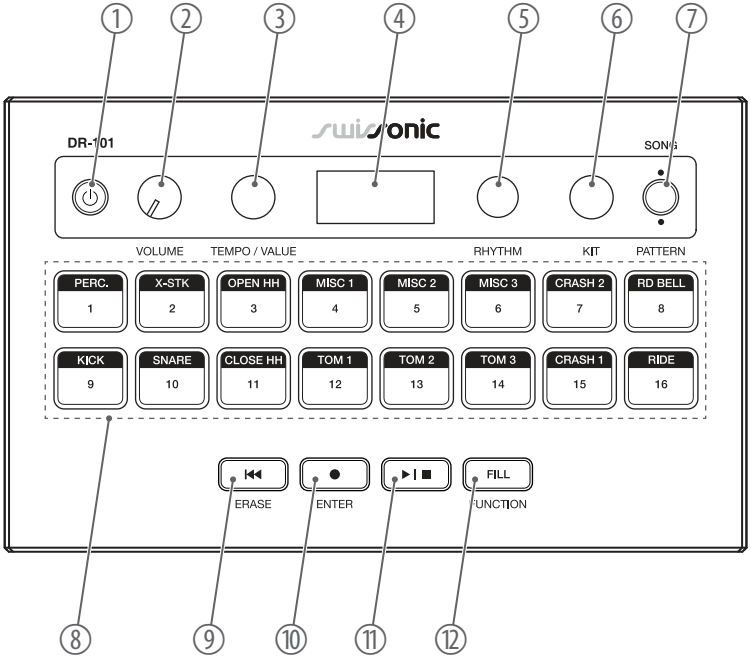
Decrease the volume level immediately if you experience ringing in your ears or hearing impairment. If this is not possible, keep a greater distance to the speaker or use adequate ear-muffs.

Connect an active speaker, stereo system or amplifier (not included) to the *[LINE OUT]* output socket on the back of the device.

To prevent damage to the speakers, turn the volume down to "Minimum" before you connect other devices to the device.

5 Connections and controls

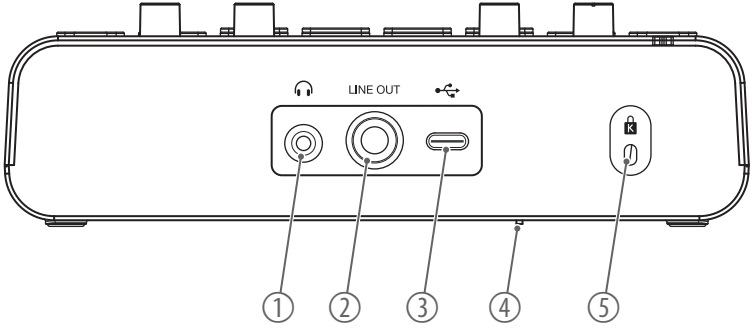
Front



1	⏻ | Main switch. Turns the device on and off.
2	*[VOLUME]* | Rotary control for adjusting the overall volume
3	*[TEMPO/VALUE]* | Rotary control for adjusting the overall speed Function menu: Rotary control for adjusting the required parameter
4	Display
5	*[RHYTHM]* | Rotary control for selecting a pattern or song
6	*[KIT]* | Rotary control for selecting a drum kit
7	*[SONG]/[PATTERN]* | Button for activating pattern or song mode
8	16 velocity-sensitive drum pads
9	⏮*/[ERASE]* | Button for restarting playback of the current pattern or song Function menu: Button for exiting the function menu Recording mode: Button for deleting a sound Hold down the button pressed and then press the pads whose stored sound you want to delete.
10	● */[ENTER]* | Button for activating recording mode Function menu: Button for confirming the set parameter

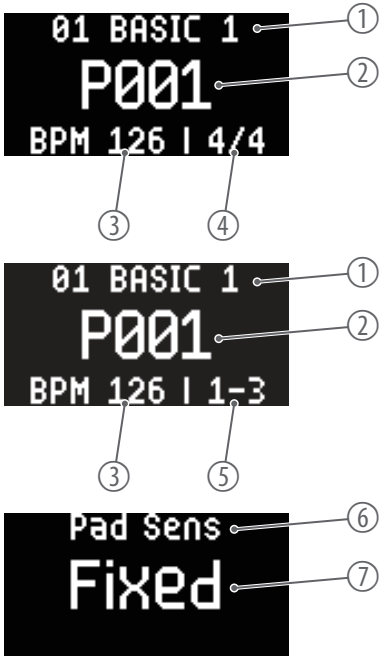
11	▶/■	Button to start or stop playback of the selected pattern or song Recording mode: Button to start or stop recording
12	*[FILL]/[FUNCTION]*	Button for inserting a fill at the end of a pre-programmed pattern or song Function menu: Button for calling up the function menu when no pattern or song is being played, and for scrolling between the submenus

Back



1	🎧 | Output socket for connecting headphones, designed as a 3.5-mm jack socket
2	*[LINE OUT]* | Output socket for connecting active speakers, a stereo system or other amplifiers, designed as 6.35-mm jack socket
3	⇢ | Input socket for the USB-C charging cable for power supply and for connection to a computer (MIDI out, audio out)
4	Battery compartment
5	Security lock for attaching the device to suitable security equipment

Display



1	Shows the number and name of the currently selected drum kit.
2	Shows the number of the currently selected pattern or song. *'P001'* … *'P100'* show the pre-programmed patterns. *'U001'* … *'U100'* show the user patterns. *'S001'* … *'S050'* show the user songs.
3	Shows the set speed.
4	Shows the set time signature of the currently selected pattern.
5	Shows the bar and beat information during playback of a pattern.
6	Shows the currently selected function menu.
7	Shows the currently set value of the function menu.

6 Operating

6.1 Switching the device on and off

1. Press and hold ⏻ to turn the device on.

⇨ The display shows the corresponding menus. The device is operational.

2. Press and hold ⏻ to turn the device off.



The device automatically switches off after the time set in the function menu if you do not press any of the buttons or hit any of the pads. To turn the device on again, hold down ⏻ again.

6.2 Patterns

6.2.1 Playing patterns

The device has a total of 100 pre-programmed patterns and 100 user patterns.



The pattern list is available for download on the product page at www.thomann.de.

1. Press *[PATTERN]* repeatedly until the display shows the number of the pattern.
2. Turn *[RHYTHM]* to choose between patterns *'P001'* … *'P100'* (pre-programmed patterns) and *'U001'* … *'U100'* (user patterns).

   If a user pattern does not contain a data set, the display shows *'*'*.
3. Press ▶/■ to start playback of the selected pattern.

   ⇨ The pattern is played in a loop.
4. Turn *[TEMPO/VALUE]* to adjust the playback speed of the selected pattern between *'5'* and *'320'*.

5. Turn *[KIT]* to assign the required drum kit between *'1'* and *'48'* to the pattern.

The drum kit list is available for download on the product page at www.thomann.de.

If you change the selected pattern with [RHYTHM] during playback, the current pattern is played to the end of its length (four bars). After that, playback of the new selected pattern begins. The playback speed set for the previously selected pattern is maintained.

6. Press ⏮ to start playback of the selected pattern from the beginning.

7. Press ▶/■ again to stop playback of the selected pattern.

6.2.2 Inserting fills

1. During playback of a patterns, press *[FILL]* to add a suitable fill to the pattern at the end of its length (usually four bars).

   ⇨ The LED of the *[FILL]* button lights up.

> *If you add a fill before pattern playback has reached the end of the third bar or before the display shows '4-1', the fill is added at the end of the current playback.*
>
> *If you add a fill in the fourth bar or after the display shows '4-1', the fill is added at the end of the next playback.*

2. Press *[FILL]* again to stop playback of the selected fill.

6.2.3 Recording and editing patterns

Recording patterns

1. Press *[PATTERN]* repeatedly until the display shows the number of the pattern.
2. Turn *[RHYTHM]* to choose a memory slot between *'U001'* … *'U100'* in the user patterns.

   If a user pattern does not contain a data set, the display shows *'*'* and can be assigned new data.
3. Turn *[TEMPO/VALUE]* to adjust the playback speed of the selected pattern between *'5'* and *'320'*.

4. To change the pad sensitivity (*'Pad Sens'*), time signature (*'Time Signature'*) and quantization (*'Quantization'*), press *[FUNCTION]* and proceed as described under .

5. Press ● to activate recording mode.

⇨ The LED of the ● button lights up.

6. Press ● again to deactivate recording mode.

7. Press ▶/■ to start recording.

Before the first bar and first beat begin, the device counts in. The length of the pre-count depends on the time signature set for the pattern. In addition, the metronome runs through the entire recording.

8. Press ⏮ to start the recording from the beginning.

9. Turn *[TEMPO/VALUE]* to adjust the playback speed of the pattern between *'5'* and *'320'*.

10. Turn *[KIT]* to assign the required drum kit between *'1'* and *'48'* to the pattern.

The drum kit list is available for download on the product page at www.thomann.de.

11. Hit the required pad as you wish during recording to add the stored sound.

12. Press ▶/■ again to stop recording.

    ⇨ The recorded pattern is saved to the selected memory slot.

Editing patterns

1. Press *[PATTERN]* repeatedly until the display shows the number of the pattern.
2. Turn *[RHYTHM]* to choose a user pattern between *'U001'* … *'U100'*.

   If a user pattern does not contain a data set, the display shows *'*'*.
3. Perform the procedure as described under *'Recording patterns' on page 22*. All previously stored recordings are played back during editing. Hit the required pad as you wish during editing to add the stored sound to the pattern.

   You can adjust the playback speed of the pattern with [TEMPO/VALUE] before or during editing. If you adjust the playback speed before editing, the change is adopted immediately. If you adjust the playback speed while editing, the change is adopted only after the edited pattern is saved.
4. While you are editing, hold down *[ERASE]* and, for two seconds hold down the pad whose stored sound you want to delete from the pattern.

   ⇨ The selected sound is deleted in the location and for the period during which you hold down the pad.

5. Press ▶/■ again to stop editing.

   ⇨ The edited pattern is saved to the selected memory slot.

6.3 Songs

6.3.1 Playing back songs

The device has a total of 50 user songs. A song is a chain of up to 200 patterns with structural sections such as intro, chorus etc.

1. Press *[SONG]* repeatedly until the display shows the number of the songs.
2. Turn *[RHYTHM]* to choose between songs *'S001'* … *'S050'*.

   If a user song does not contain a data set, the display shows *'*'*.
3. Press ▶/■ to start playback of the selected song.

   ⇨ The song is played back. Playback ends when the end of the song is reached.
4. Turn *[TEMPO/VALUE]* to adjust the playback speed of the selected song between *'5'* and *'320'*.

5. Turn *[KIT]* to assign the required drum kit between *'1'* and *'48'* to the song.

> *The drum kit list is available for download on the product page at www.thomann.de.*

> *During playback of the song, it is not possible to switch between songs with [RHYTHM] or to add a fill with [FILL].*

6. Press ⏮ to start playback of the selected song from the beginning.
7. Press ▶/■ again to stop playback of the selected song.

6.3.2 Recording and editing songs

Recording a song

1. Press *[SONG]* repeatedly until the display shows the number of the songs.
2. Turn *[RHYTHM]* to choose a memory slot between *'S001'* … *'S050'* in the user songs.

   If a user song does not contain a data set, the display shows *'*'* and can be assigned new data.
3. Turn *[TEMPO/VALUE]* to adjust the playback speed of the selected song between *'5'* and *'320'*.

4. Press ● to start recording.

⇨ The LED of the ● button lights up. Recording of the first slot (1/200) of the pattern chain begins.

5. Turn *[RHYTHM]* to choose between patterns *'P001'* … *'P100'* (pre-programmed patterns) and *'U001'* … *'U100'* (user patterns).

If a pattern does not contain a data set, the display shows *'*'*.



If you insert a pre-set pattern, a suitable fill is added to the pattern at the end of its length (usually four bars).

6. Press ▶/■ to start playback of the first slot (1/200) of the pattern chain.

7. Press *[ENTER]* to confirm the current slot (1/200) of the pattern chain.

⇨ The first slot (1/200) of the pattern chain is saved.

⇨ The device starts recording to the next slot (2/200).

⇨ At first, the display shows *'No Data'*. Turn *[RHYTHM]* until the display shows *'P001'*.

8. Repeat steps 5 to 7 until the song has reached its desired form.

9. Hold down *[ENTER]* to save the song.

⇨ The recorded song is saved to the selected memory slot.

⇨ Recording mode is deactivated.

Editing a song

1. Press *[SONG]* repeatedly until the display shows the number of the songs.

2. Turn *[RHYTHM]* to choose a user song between *'S001'* … *'S050'*.

If a user pattern does not contain a data set, the display shows *'*'*.

3. Press ● to start recording.

⇨ The LED of the ● button lights up. Recording of the first slot (1/200) of the pattern chain begins.

4. Press *[ENTER]* repeatedly to display the existing slots of the pattern chain in succession until you reach the slot whose pattern you want to edit.

5. Turn *[RHYTHM]* to choose between patterns *'P001'* … *'P100'* (pre-programmed patterns) and *'U001'* … *'U100'* (user patterns).

If a pattern does not contain a data set, the display shows *'*'*.



You can adjust the playback speed of the song with [TEMPO/VALUE] before or during editing. If you adjust the playback speed before editing, the change is adopted immediately. If you adjust the playback speed while editing, the change is adopted only after the edited song is saved.

6. Hold down *[ENTER]* to save the song.

⇨ The edited song is saved to the selected memory slot.

⇨ Recording mode is deactivated.

6.4 Function menu

1. Press *[FUNCTION]* to call up the function menu. The function menu can only be called up if no patterns or songs are being played back.
   ⇨ The display shows *'Pad Sens'*.
2. Press *[FUNCTION]* repeatedly until the display shows the desired submenu.
3. Turn *[VALUE]* to change the displayed parameter.
4. Press *[ENTER]* to confirm the selection.
   ⇨ The set parameter is adopted immediately.
5. To exit the menu without making changes, press *[ERASE]* or wait 5 seconds.

The following settings can be made in the function menu:

Menu level 1	Menu level 2	Description
'Pad Sens'	*'Soft'*	Sensitivity of the pads Factory setting: *'Hard'*
	'Medium'	
	'Hard'	
	'Fixed'	

Menu level 1	Menu level 2	Description
'Fixed Sens'	*'60'* … *'127'*	Sensitivity of the pads if *'Pad Sens'* *'Hard'* is selected Factory setting: *'100'*
'Perspective'	*'Player'*	Stereo panorama setting for headphones and speakers
	'Audience'	
'Rev Type'	*'Hall 1'*	Type of reverb effect Factory setting: *'Hall 1'*
	'Hall 2'	
	'Hall 3'	
	'Room 1'	
	'Room 2'	
'Rev Level'	*'0'* … *'10'*	Level of reverb effect Factory setting: *'4'*
'Time Sig'	*'2'*, *'3'*, *'4'*, *'5'*, *'6'*, *'7'*, *'9'*, *'11'*, *'13'*, *'15'*	Number of beats or ¼ notes in a bar Factory setting: *'4'*

Menu level 1	Menu level 2	Description
'Quantize'	*'Finest: 1/384'* *'Fine: 1/128'* *'Normal: 1/64'* *'Tight: 1/32'* *'Tightest: 1/16'*	Minimum size of the time grid (note resolution) set for the user patterns Factory setting: *'Fine: 1/128'*
'Metro Vol'	*'0'* … *'10'*	Metronome volume during recording of the pattern Factory setting: *'6'*
'Ptn Copy From'		Copy pattern. Turn *[VALUE]* to select a pattern. Press *[ENTER]*. Turn *[VALUE]* to select a memory slot where you want to add the copy of the pattern. Press *[ENTER]* to copy the pattern.

Menu level 1	Menu level 2	Description
'Ptn Erase'		Erase a pattern. Turn *[VALUE]* to select a pattern. Press *[ENTER]*. The display shows *'Sure ?'*. Press *[ENTER]* to delete the pattern.
'Song Copy From'		Copy a song. Turn *[VALUE]* to select a song. Press *[ENTER]*. Turn *[VALUE]* to select a memory slot where you want to add the copy of the song. Press *[ENTER]* to copy the song.
'Song Erase'		Delete a song. Turn *[VALUE]* to select a song. Press *[ENTER]*. The display shows *'Sure ?'*. Press *[ENTER]* to delete the song.

Menu level 1	Menu level 2	Description
'MIDI Out Map'	*'Type-1'* … *'Type-6'*	Automatic assignment of the pads to any MIDI buttons if an external MIDI controller is in use Factory setting: *'Type-1'*
'User Map'	*'0'* … *'127'*	Individual assignment of the pads to any MIDI buttons if an external MIDI controller is in use
'MIDI Out CH'	*'0'* … *'16'*	Output channel of the pads
'Local Sound'	*'On'*	Switch the internal speakers on or off.
	'Off'	
'Reset All'		Reset the device to factory defaults. Press *[ENTER]*. The display shows *'Sure ?'*. Press *[ENTER]* to reset the device to its factory defaults.
'Auto Off'	*'15'*	Automatic shutoff. If the device is not used, it switches off automatically. Select *'Off'* to deactivate automatic shutoff. Factory setting: *'15'*

Menu level 1	Menu level 2	Description
	'60'	
	'Off'	

7 Technical specifications

Input connections	Power supply	1 × USB-C socket for 5V power adapter
Output connections	Headphones	1 × 3.5 mm jack socket
	Line out	1 × 6.35 mm jack socket
	MIDI out / audio out	1 × USB-C socket
Display	OLED display	
Sounds	185	
Drum kits	48 preset kits	
Patterns	100 pre-programmed patterns, 100 user patterns	
Effects	Reverb (Hall, Room)	
Songs	50 user songs (800 bars / 200 patterns per song)	
Speakers	2 × 36 mm, 1 W each	
Power supply	External power adapter, 100 - 240 V ~ 50/60 Hz	
Operating voltage/current	5 V ⎓ / min. 1,000 mA, via USB port	
Battery	Battery type	4 × AA battery
	Voltage	1.5 V

Dimensions (W × H × D)	182 mm × 58 mm × 112 mm	
Weight	0.46 kg	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20%…80% (non-condensing)

8 Plug and pin assignments

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" TRS phone plug (stereo, unbalanced)



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

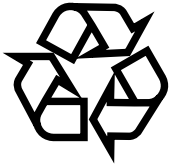
Three-pole 1/8" mini phone jack (stereo, unbalanced)



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

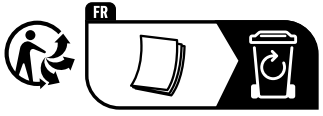
9 Protecting the environment

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.

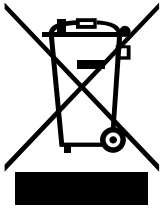
Disposal of batteries and rechargeable batteries



Do not dispose of batteries and rechargeable batteries with normal household waste, but in accordance with the local regulations for the disposal of hazardous waste. Use the available collection sites or contact your local waste disposal facility.

Before disposing of your old device, remove the batteries if this is possible without destroying it.

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*.

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. For example, use the classified ads of Thomann GmbH.

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