

Drums
Millenium

MPS-750X, MPS-750X PRO

E-Drum Module

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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.

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.

Signal word	Meaning
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 – danger zone.
	Warning – high-voltage.

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.

**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 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). 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 if 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.

3 Features

Special features of the device:

- 697 timbres (voices)
- 55 songs
- 20 preset kits
- 20 user kits
- Up to 15 user songs
- Metronome
- 4-band equalizer (DSP)
- Hall effect, distortion (FX) and compressor
- Recording function
- Flexible pad assignment
- Bluetooth®
- Connections: Headphones, external trigger, USB, line out, line in
- Standby function
- Fader for controlling the volume of the pads, the effects or the 4-band equalizer
- Multi-cable and plug-in power supply (included)

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.

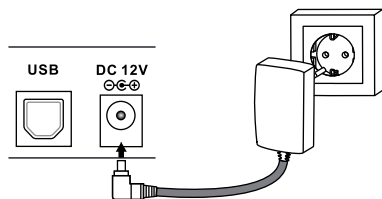
Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

Setting up the rack, connecting pads and pedals

Rack setup and assembly of the pads and pedals are described in detail in the supplied assembly instructions.

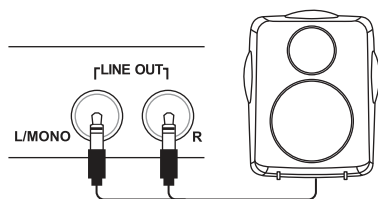
→ Check that all connection cables between the pads and the device are correctly connected.

Connecting the plug-in power supply



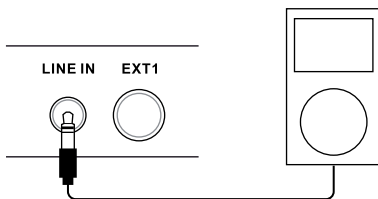
1. ➤ Connect the supplied plug-in power supply to the connection socket on the device.
2. ➤ Plug the mains plug into the socket.

Connecting audio devices



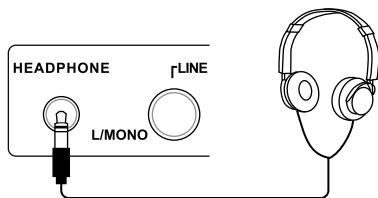
1. → Connect the inputs of the amplifier or active monitor to the output sockets *[LINE OUT / L/MONO]/[LINE OUT/R]*.

If you are using a mono amplifier, connect its input to the output jack *[LINE OUT / L/MONO]*.



2. → Connect the audio device (e.g. CD player or MP3 player) to the *[LINE IN]* input socket.

Connecting headphones

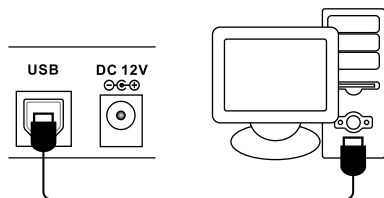


- Connect the headphones to the *[HEADPHONE]* output jack.

Connecting USB devices

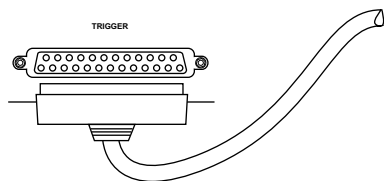


Use a current operating system still supported by the provider to avoid technical difficulties.



→ Connect the computer to the *[USB]* USB interface.

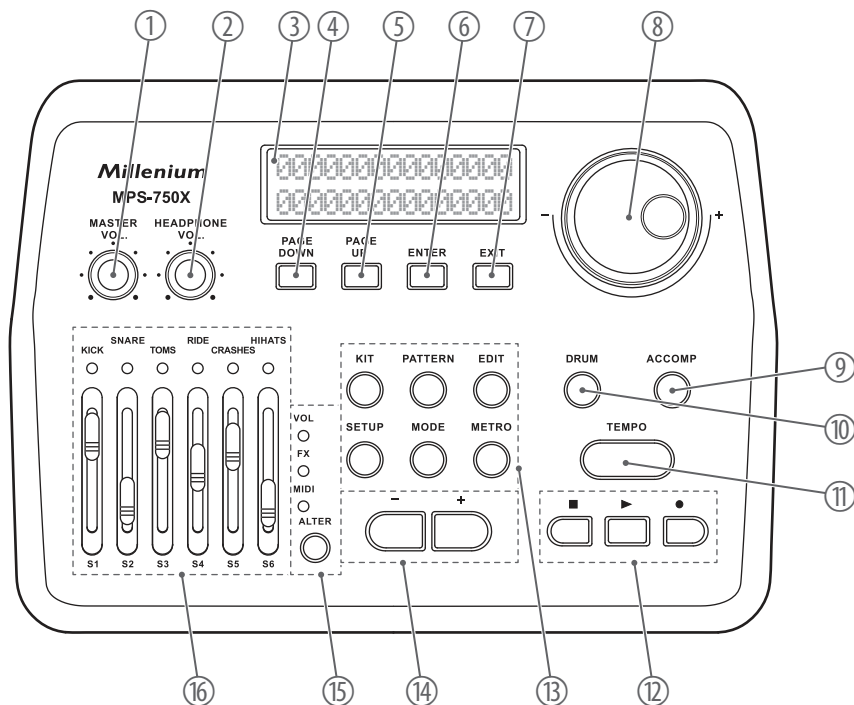
Connecting the pads



→ Connect the D-sub connector of the pad connection cable to the *[TRIGGER]* D-sub input socket.

5 Connections and controls

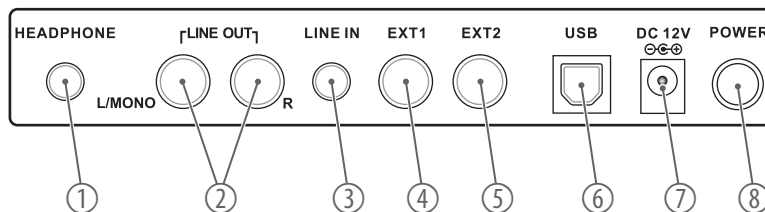
Front panel



1	[MASTER VOL.] Controls the volume of the line output.
2	[HEADPHONE VOL.] Controls the volume of the headphone output.
3	Backlit display
4	[PAGE DOWN] Scrolls forward in the opened menu.
5	[PAGE UP] Scrolls backwards in the opened menu.
6	[ENTER] Confirms a selection or setting.
7	[EXIT] Exits a menu or discards settings.
8	Rotary control for increasing and decreasing the value of the currently selected parameter
9	[ACCOMP] Mutes the backing track of a song.
10	[DRUM] Mutes the drum track of a song.
11	[TEMPO] Adjusts the speed of the metronome as well as the recording and playback speed.
12	■ Ends the playback of songs and a recording.
	► Starts song playback.
	● Activates recording mode and starts recording.
13	[KIT] Activates the 'KIT' operating mode.
	[PATTERN] Activates the 'PATTERN' operating mode.

	<i>[EDIT]</i> Activates edit mode for adjusting the drum kits.
	<i>[SETUP]</i> Opens the setup menu for adjusting the device settings.
	<i>[MODE]</i> Toggles between modes.
	<i>[METRO]</i> Turns the metronome on and off and opens the click menu.
14	<i>[-/+]</i> Increases or decreases the value of the currently selected parameter and selects a drum kit.
15	<i>[AGE]</i> Sets the mode of operation of faders <i>[S1...S6]</i> .
	<i>[VOL]</i> LED lights up: The 'Volume' mode is set.
	<i>[FX]</i> LED lights up: The 'Effects' mode is set.
	<i>[MIDI]</i> LED lights up: The 'MIDI' mode is set.
16	<i>[S1...S6]</i> Faders for adjusting the connected pads. Depending on the operating mode selected by <i>[AGE]</i> , the corresponding function is set.

Rear panel



- | | |
|---|---|
| 1 | [HEADPHONE] Headphone output, designed as a 3.5 mm jack socket |
| 2 | [LINE OUT / L/MONO]/[LINE OUT/R] Output for connecting an amplifier or active monitor (mono left, stereo left/right), designed as a 6.35 mm jack socket |
| 3 | [LINE IN] Input for connecting audio devices (e.g. CD player or MP3 player), designed as a 3.5 mm jack socket |
| 4 | [EXT1] Input for connecting an external trigger or cymbal pad, designed as a 6.35 mm jack socket |
| 5 | [EXT2] Input for connecting an external trigger, mesh head pad or bar trigger pad, designed as a 6.35 mm jack socket |
| 6 | [USB] USB interface for connecting a computer (MIDI data, firmware update), designed as USB MIDI |
| 7 | [DC 12V] Connection socket for the plug-in power supply |
| 8 | [POWER] Turns the device on and off. |

6 Operating

6.1 Switching the device on and off



If the device is not used for 15 minutes, it switches off automatically.

1. ➤ Make sure that the volume of all devices is set to minimum.
2. ➤ Switch the device on with [POWER].
 - ➡ The display shows 'initializing...'
3. ➤ Switch off the device with [POWER].
 - ➡ The display goes out.

6.2 Setting the drum kit

Selecting a drum kit

A drum kit is a compilation in which a specific sound and several sound parameters are assigned to each trigger. By selecting a drum kit, you can adjust the sound of your sampling percussion pad to the required music genre in seconds. ➡ Chapter 11.1 'Drum kit list' on page 43



The user kits are copies of the preset kits by default.

Only user kits can be deleted. Preset kits cannot be deleted.

1. ➤ Press **[KIT]**.
➡ The display shows the drum kit number and the drum kit name.
2. ➤ Use the rotary control or press **[-/+]** to select the required drum kit.

Customising a drum kit

The pre-programmed timbres (voices) of the e-drum module can be freely programmed onto the connected pads. ➡ *Chapter 11.3 'Voice list' on page 46*

You can create your own drum kits and store them in the device.

1. ➤ Select one of the available drum kits and use **[EDIT]** to switch to edit mode.
2. ➤ Hit the pad (trigger) to which you want to programme a certain sound or press **[DRUM]** repeatedly until the desired pad is shown on the display. For multiple assigned pads, also select the specific trigger.
3. ➤ Switch between menus with **[PAGE DOWN]**/**[PAGE UP]** and adjust the setting for the activated trigger with the rotary control or **[-/+]**.

Menu	Setting
'VOICE TYPE'	Selects the [KICK], [SNARE], [TOMS], [RIDE], [CRASHES] [,] HIHATS, [METRO] or Extras pad for the assigned sound.
'VOICE'	Adjusts the sound.
'VOLUME'	Adjusts the volume.
'REVERB'	Sets the reverb effect.
'PITCH'	Sets the pitch.
'PAN'	Sets the position in the stereo signal (balance right/left).

4.  Exit the menu with [EXIT].
➡ The save dialogue appears.
5.  Select a memory slot with [-/+]. Any existing data will be overwritten.
6.  Confirm with [ENTER] or discard the settings with [EXIT].
7.  Optional: Select the next trigger to which you want to program a sound.
8.  Exit the edit mode with [EXIT].

6.3 Playing songs

The digital e-drum set has a total of 55 pre-programmed songs that you can play individually in the 'Pattern' operating mode. ➔ Chapter 11.2 'Song list' on page 44

1. ➤ Press [PATTERN].
➡ The display shows the first song '01 WalkWithTree'.
2. ➤ Select a song using the rotary control or [-/+].
3. ➤ Start playback with ►.
4. ➤ Stop playback with ■.

6.4 Adjusting the metronome

The metronome provides an even click track to help you maintain accurate timing and rhythm.

1. ➤ Turn the metronome on and off with [METRO].
2. ➤ Switch between menus with [PAGE DOWN]/[PAGE UP] and adjust the setting with the rotary control or [-/+].

Menu	Setting
'VOLUME'	Adjusts the volume.
'TEMPO'	Adjusts the speed.
'TIME SIGNATURE'	Adjusts the time signature.
'SOUND'	Sets the click tone.

3. ➤ To adjust the speed, press [TEMPO] and adjust the speed using the rotary control.
Alternatively, tap [TEMPO] four times in succession and at the desired speed (tap tempo function).
4. ➤ Exit the menu with [EXIT].

6.5 Starting recording

The drum module offers the option of recording up to 15 of your own user songs in the 'KIT' or 'PATTERN' operating mode.



In the 'PATTERN' operating mode, you can have a song played as accompaniment.

1. ➤ Activate the 'KIT' or 'PATTERN' operating mode.
2. ➤ Activate recording mode with ●.

3. ➤ Optional: Set the metronome settings for recording.
4. ➤ Start recording with ●.
5. ➤ Pause the recording with ■.
6. ➤ To stop recording, press ■ twice.
 - ➡ The display shows 'Save the song to'.
7. ➤ Select a memory slot with [-/+]. Any existing data will be overwritten.
8. ➤ Confirm with [ENTER] or discard the settings with [EXIT].

6.6 Setting the faders

The function of faders [S1...S6] depends on the selected operating mode.



If you have set one of the faders to a specific value in one of the operating modes and then repeatedly change the operating mode you first have to slide the fader over the previously set value in the initial mode.

Example: If you set fader S1 in 'VOL' mode to value '127', then switch to 'FX' mode and set the fader to '0', then switch back to 'VOL' mode, you first have to set the fader back to value '127' to get a response.

This function prevents sudden volume jumps or changes of effect settings by moving the faders in the three modes.

- Select the operating mode with *[ALTER]*.

Operating mode	Fader function
'VOL'	Controls the volume of the assigned pads <i>[KICK]</i> , <i>[SNARE]</i> , <i>[TOMS]</i> , <i>[RIDE]</i> , <i>[CRASHES]</i> and <i>[HIHATS]</i> .
'FX'	■ <i>[S1]</i>: Controls the reverb effect. ■ <i>[S2]</i>: Controls compression. ■ <i>[S3...S6]</i>: Controls the 4-band equalizer.
'MIDI'	In MIDI mode, faders <i>[S1...S6]</i> are each assigned to a controller. The function is defined in the settings of the installed DAW.

- ➡ The LED of the selected mode lights up.

6.7 Adjusting device settings

You can customise various device settings in the setup menu.

1. ➤ Press *[SETUP]*.
2. ➤ Select the required parameter with *[PAGE DOWN]*/*[PAGE UP]* and adjust the setting with the rotary control or *[-/+]*.
3. ➤ Exit the menu with *[EXIT]*.
4. ➤ Confirm with *[ENTER]* or discard the settings with *[EXIT]*.

Parameter	Setting	
'BACK VOLUME'	Preset for the volume of all songs and loops	
'MASTER TUNE'	Preset for the pitch, standard pitch A/440 Hz is the factory setting	
'LOCAL'	Set the parameter for normal operation to 'ON': The module plays back the programmed sound files. Set the parameter for MIDI operation to 'OFF' (lower latency): The module transmits MIDI data.	
'FX SET'	Fader function preset. Make the following settings either directly with the fader or use the buttons [PAGE UP]/[PAGE DOWN]:	
	'Reverb Type'	Reverb preset (effect type), fader S1.
	'Dist.Pst'	Distortion preset (effect type).
	'Threshold'	Compressor threshold preset, fader S2.
	'LowFrq'	Preset for low frequency control range, fader S3.
	'LoMiFrq'	Preset for low mid frequency control range, fader S4.
	'HiMiFrq'	Preset for high mid frequency control range, fader S5.
	'HiFrq'	Preset for high frequency control range, fader S6.
'MIDI SET'	Assignment of faders S1...S6 to the MIDI controllers.	
'FADER MODE'	Specification of the fader positions	
	'Save'	The fader positions are saved when the device is switched off.

Parameter	Setting	
	'Cancel'	The fader positions are not saved when the device is switched off.
	'Lock'	The fader positions are locked and cannot be adjusted individually.
'ADVANCED'	Pad or trigger parameter preset:	
	'Sensitivity'	The velocity sensitivity regulates the volume behaviour of a pad independently of the actual strike intensity. The higher the value, the higher the volume when playing, and vice versa.
	'Headroom'	This parameter is used to preset the level reserve between normal and maximum level when playing the pads.
	'SenseTime'	Presetting the minimum time interval between two signals from the same trigger prevents unwanted sound overlays by vibrations.
	'Trigger'	The trigger curve regulates the velocity sensitivity, i.e. the ratio between the strike and volume. Use the ' <i>Linear</i> ' setting for the most natural ratio between strike and volume. Use ' <i>Exp</i> ' if you want a hard strike to cause a bigger volume change (or dynamics). Use ' <i>Log</i> ' if you want a soft strike to cause a bigger change. With the ' <i>Spline</i> ' setting, the volume changes less when the strike is changed. High volumes are already reached at a relatively low strike intensity.
	'Peak Decay'	This setting specifies the time during which no other signal is accepted after a signal from the selected pad is received. The higher the value, the lower the likelihood that notes are skipped, but double triggering is easier.

Parameter	Setting
'Rim/Head Modifier'	Improve signal detection by increasing the signal strength difference between rim and head. The Rim Modifier strengthens the rim signal when the touch velocity is low. The head modifier lowers the head signal at low impact strengths. This setting only needs to be adjusted if pads of other models or manufacturers are used, but not if the original pads are used.
'Xtalk'	If several pads are mounted on a rack, vibrations can be transmitted to other pads when you hit a pad and unintentionally trigger sounds. This crosstalk can be avoided by the appropriate setting. The value should be set as low as possible. Press [ENTER] to store the setting. Hit the selected pad with maximum force until 'OK' appears. Choose another pad if necessary and repeat the process. Confirm the value with [ENTER].
'Note Send'	Setting the MIDI note value which is sent in MIDI operation
'Rim Velocity'	Setting the volume of the rim trigger regardless of the actual strike intensity. The higher the value, the higher the volume when playing the rim trigger, and vice versa.
'Pedal Vel.'	Setting the hi-hat volume. Select this option and press down the hi-hat pedal with maximum power. The harder you press down the pedal, the louder is the hi-hat. Confirm the value with [ENTER] .
'Split Point'	Setting the rim trigger response value of the snare. If you play the rim trigger of the snare softly you hear the cross stick sound. Above the response value you hear the rim shot sound.
'Chick Time'	This setting specifies the time during which no other signal is accepted after the pedal is pressed. This setting avoids unintentional triggering caused by physical contact.

Parameter	Setting
	'Splash Time' Setting the level of difficulty for triggering the pedal splash
	'Calib.' This parameter defines the playing range of the hi-hat pedal. The set range is shown in the display in the lower right corner. Press [ENTER] to select the option. Press the pedal down to the floor and press [ENTER] to set the minimum. Release the pedal slowly and press [ENTER] to set the maximum. The value range is stored in the module and allows a more precise strike. Avoid extreme values to allow easy playing.
	The range between "hi-hat open" and "hi-hat closed" is called 'HalfOpen'. To increase the 'HalfOpen' range, increase the 'Open Point' and decrease the 'Close Point'.
	'Open Point' Setting the point at which the hi-hat is open. The value is displayed in the entire hi-hat pedal range. The higher the value, the closer it is to the position where the pedal is released. This means that the range in which the hi-hat is open is very small.
	'Close Point' Setting the point at which the hi-hat is closed. The value is displayed in the entire hi-hat pedal range. The lower the value, the closer it is to the position where the pedal is pressed down to the floor. This means that the range in which the hi-hat is closed is very small.
	'Type' Selection of the trigger type for input [EXT2]: ■ 'Mesh' for mesh head pad. ■ 'Bar' for bar trigger pad.

6.8 Connecting to Bluetooth®

You can connect the e-drum module to mobile devices that support Bluetooth® 4.0 or higher. Android and iOS are both supported. When you switch on the e-drum module, Bluetooth® is automatically activated.

1. ➤ Activate Bluetooth® on the mobile device.
2. ➤ Search for available devices.
3. ➤ Select the e-drum module 'HX-****'.
4. ➤ Enter the password '1337' and confirm.
 - ➡ After successful connection, you can play audio data on the mobile device and listen via the outputs of the e-drum module. The volume can now only be controlled on the mobile device.

6.9 Performing a firmware update

Viewing the firmware version

Before performing a firmware update, check the current firmware version of the e-drum module.

1. ➤ Switch the device on with [POWER].
2. ➤ While the display shows 'Initializing...', hold down [-] and [+].
 - ➡ The display shows the firmware version 'VX.XX' on the top left.

Performing a firmware update

If you need to perform a firmware update, you can download the current firmware from ➔ www.thomann.de. The firmware is only suitable for a Microsoft Windows operating system.



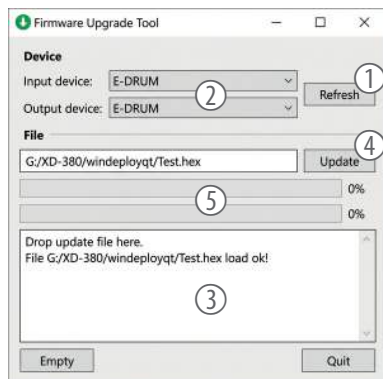
Use a current operating system still supported by the provider to avoid technical difficulties.

- **1.** Connect the computer to the USB interface [USB] of the e-drum module using a USB cable (USB-A or USB-B).



The first time you connect the computer to the e-drum module, the driver is installed automatically. Wait until installation is complete.

- **2.** Hold down [–] and [+] and switch on the e-drum module with [POWER].
➔ The display shows 'UPGRADE' and the bootloader version 'VerX.XX'.
- **3.** Download the 'Firmware Upgrade Tool' update software.
- **4.** Unzip the compressed file.



5. ➤ Open the 'Firmware Upgrade Tool' upgrade software.
➡ The dialogue window appears.
6. ➤ Refresh the view with 'Refresh' (1).
7. ➤ Under 'Input device' and 'Output device' select 'E-DRUM' or 'USB A' (2).
8. ➤ Drag the upgrade file 'XXX.hex' into the window (3).
9. ➤ Start the update with 'Update' (4)
➡ The 'DFU' pop-up window appears.
10. ➤ Confirm with 'OK'.
➡ Progress is displayed in the progress bar in the middle of the dialogue window (5).
➡ When the firmware update is completed, the 'DFU' pop-up window appears with the message 'Firmware update completed!'.
11. ➤ Confirm with 'OK'.
➡ The firmware update was performed successfully.
12. ➤ Switch off the e-drum module with [POWER].

6.10 Resetting to factory defaults

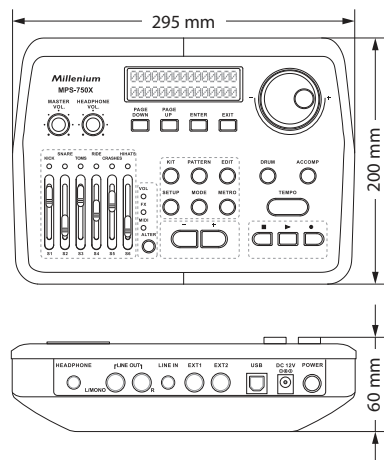
You can reset individual parameters or all settings to factory settings.

1. ➤ Press *[SETUP]*.
2. ➤ Select the 'RESET' menu with *[PAGE DOWN]*/*[PAGE UP]*.
Switch between menus with *[PAGE DOWN]*/*[PAGE UP]* and adjust the setting with the rotary control or *[-/+]*.
3. ➤ Select any of the following options using the rotary control or *[-/+]*:

Menu	Setting
'Kits'	Resets the drum kits to factory defaults.
'Settings'	Resets the system settings to factory defaults.
'Xtalk'	Resets the "Crosstalk" parameter to the minimum.
'Songs'	Deletes all user kits.
'All'	Resets all settings to factory defaults and deletes the user kits.

4. ➤ Confirm with *[ENTER]*.
5. ➤ Restart the device.

7 Technical specifications



Input connections	Power supply	Connection socket for the plug-in power supply
	USB port	USB MIDI
	Trigger	1 × D sub connector, 25-pin
		2 × 6.35 mm jack socket
Output connections	Line In	1 × 3.5 mm jack socket
	Headphones	1 × 3.5 mm jack socket
	Line out (R/L mono)	2 × 6.35 mm jack socket
Timbres	697	
Polyphony	189	
Effects	Reverb, distortion, compressor	
Drum kits	20 preset kits, 20 user kits	
Demo and practise songs	55 pre-programmed songs, 15 user songs	
Equalizer	4-band	
Bluetooth®	Frequency range	2.402 GHz...2.480 GHz

	Max. transmission power	+4 dBm
	Standard	Version 5.0
Power supply	External plug-in power supply, 100 - 240 V ~ 50/60 Hz	
Operating voltage/current	12 V $\overline{\text{---}}$ / min. 1,000 mA, polarity: centre positive or via USB connection	
Dimensions (W × H × D)	295 mm × 60 mm × 200 mm	
Weight	1.2 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	Yes
Pads in stereo	Yes
Number of direct outputs	0

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!

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.

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



1	Signal
2	Ground, shielding

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 Cleaning

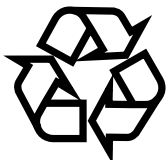
Device components

Clean the device components that are accessible from the outside regularly. The cleaning frequency depends on the operating environment: damp, smoky or particularly dirty environments can cause greater accumulation of dirt on the device components.

- Clean with a dry soft cloth.
- Stubborn dirt can be removed with a slightly dampened cloth.
- Never use solvents or alcohol for cleaning.

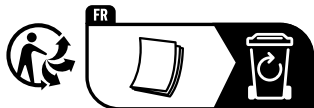
10 Protecting the environment

Disposal of the packing material



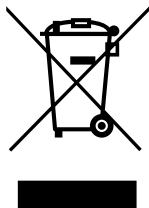
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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.

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.

11 Appendix

11.1 Drum kit list

No.	Name		No.	Name
001	Studio		011	Fiesta
002	Funk		012	Mario
003	Pop		013	Impulse
004	Jazz		014	Loop
005	Metal		015	DirtySouth
006	Rock		016	Nebula
007	80s		017	Drumstep
008	Latin		018	Jungle
009	Brush		019	Utopia
010	Sunray		020	Bluebay

11.2 Song list

No.	Name		No.	Name		No.	Name
001	WalkWithTree		015	ChaCha		029	NightTrain
002	Soul		016	Life		030	Arriba
003	Latin		017	Home		031	Batteries
004	Moskau		018	Latina		032	Revealite
005	Heart		019	Reality		033	Breathe
006	Fable		020	SoftAmour		034	BlueEyes
007	theStorm		021	MelodicDeath		035	HeyMan
008	Beowulf		022	SambaDance		036	Firerain
009	Forever		023	RockBlues		037	NyanCats
010	Acid		024	Fly		038	Supreme
011	Arcane		025	Bossa		039	Bartender
012	toBeLoved		026	Tango		040	Celebration
013	Rain		027	Dancing		041	Discover
014	PopAges		028	CryintheRain		042	Shade

No.	Name		No.	Name		No.	Name
043	Echo		048	Blues		053	Take
044	LiteGroove		049	Techno		054	Angel
045	River		050	OutofMyHeart		055	Bridge
046	Jazz		051	MellowTone			
047	Love		052	theLight			

11.3 Voice list

No.	Name		No.	Name		No.	Name
KICK			014	RnB 02		028	Trap 03
001	Rock		015	RnB 03		029	Trap 04
002	Jazz		016	RnB 04		030	Trap 05
003	Indie 01		017	Techno 01		031	Pop 01
004	Indie 02		018	Techno 02		032	Pop 02
005	Metal		019	Techno 03		033	Pop 03
006	Funk 01		020	Techno 04		034	Pop 04
007	Funk 02		021	Trance 01		035	Jungle
008	8Bit 01		022	Trance 02		036	Latin
009	8Bit 02		023	Trance 03		037	Session
010	House 01		024	Trance 04		038	Vintage
011	House 02		025	Trance 05		039	Jungle 01
012	House 03		026	Trap 01		040	Jungle 02
013	RnB 01		027	Trap 02		041	Fiesta

No.	Name		No.	Name		No.	Name
042	Birch 01		057	MorMOOG		072	Soli909RIM
043	YAM18		058	Morschlag2		SNARE	
044	JAZZ V		059	Morschlag3		073	Rock
045	METAL V		060	Morschlag1		074	Rock R
046	POP V		061	Morschlag5		075	Rock X
047	ROCK2V		062	Ballerfiak		076	Jazz 01
048	ROCK V		063	Rave309		077	Jazz 01 R
049	ROCKBRIGHT		064	Y30		078	Jazz X
050	DGs8		065	SOLI606		079	Jazz 02
051	Pik		066	SOLI808		080	Jazz 02 R
052	Sax		067	Y909		081	Indie 01
053	Six		068	Pink		082	Indie R 01
054	Hot		069	KissV		083	Indie X
055	Kiss		070	DG3		084	Indie 02
056	DDDclean		071	TR66RIM		085	Indie R 02

No.	Name		No.	Name		No.	Name
086	Metal		101	House 05		116	Trance 03
087	Metal R		102	RnB 01		117	Trance 04
088	Metal X		103	RnB 02		118	Trap 01
089	Funk 01		104	RnB 03		119	Trap 02
090	Funk R 01		105	RnB 04		120	Trap 03
091	Funk X 01		106	RnB R 01		121	Trap 04
092	Funk 02		107	RnB R 02		122	Trap 05
093	Funk R 02		108	RnB X 01		123	Trap 07
094	Funk X 02		109	RnB X 02		124	Trap 08
095	8Bit 01		110	Techno 01		125	Trap 09
096	8Bit 02		111	Techno 02		126	Trap 10
097	House 01		112	TechnoC 01		127	Trap 11
098	House 02		113	TechnoC 02		128	Pop
099	House 03		114	Trance 01		129	Pop R
100	House 04		115	Trance 02		130	Pop X

No.	Name		No.	Name		No.	Name
131	Brush		146	Fiesta R 01		161	JAZZV RS
132	Brush R		147	Fiesta X 01		162	JAZZV SS
133	Brush X		148	Fiesta 02		163	METALV
134	Latin		149	FiestaR 02		164	METALV RS
135	Latin R 01		150	Fiesta R 03		165	METALV SS
136	Latin R 02		151	Jungle2		166	POPV
137	Session		152	Jungle2 R		167	POPV RS
138	Session R		153	BALLAD1		168	POPV SS
139	Session X		154	RSBALLAD1		169	ROCKV2
140	Vintage		155	SSBALLAD1		170	ROCKV2 RS
141	Vintage R		156	BrushV		171	ROCKV2 SS
142	Vintage X		157	BrushVSWIRL		172	ROCKV3
143	Jungle		158	BrushV RS		173	ROCKV3 RS
144	Jungle R		159	BrushV SS		174	ROCKV3 SS
145	Fiesta 01		160	JAZZV		175	ROCKBRI

No.	Name		No.	Name		No.	Name
176	ROCKBRIRS		191	Soli8084		205	Rock4
177	ROCKBRISS		192	Soli9095		206	Rock4 R
178	Soli085		193	SoliFR2L		207	Jazz1
179	FatschSd		194	Soli808		208	Jazz1 R
180	MBare		195	SoliRH5		209	Jazz2
181	OrgCP		196	RimY10RIM		210	Jazz2 R
182	SoliNoisy		197	RimSoli808R		211	Jazz3
183	909		198	SNSN80er		212	Jazz3 R
184	Abpunch		TOM			213	Indie1
185	DD31		199	Rock1		214	Indie2
186	Dy2		200	Rock1 R		215	Indie3
187	L9		201	Rock2		216	Indie4
188	Morball2		202	Rock2 R		217	Metal1
189	Morballcl		203	Rock3		218	Metal2
190	X82		204	Rock3 R		219	Metal3

No.	Name		No.	Name		No.	Name
220	Metal4		235	House3 01		250	Techno2
221	Conga1		236	House4 01		251	Techno3
222	Conga2		237	House1 02		252	Techno4
223	Conga3		238	House2 02		253	Trance1 01
224	Conga4		239	House3 02		254	Trance1 02
225	Conga5		240	House4 02		255	Trance1 03
226	Conga6		241	House1 03		256	Trance1 04
227	Timbale1		242	House2 03		257	Trance2 01
228	Timbale2		243	House3 03		258	Trance2 02
229	8Bit1		244	House4 03		259	Trance2 03
230	8Bit2		245	RnB1		260	Trance2 04
231	8Bit3		246	RnB2		261	Trap1 01
232	8Bit4		247	RnB3		262	Trap1 02
233	House1 01		248	RnB4		263	Trap1 03
234	House2 01		249	Techno1		264	Trap2 01

No.	Name		No.	Name		No.	Name
265	Trap2 02		280	Latin2		295	Jungle1
266	Trap2 03		281	Latin3		296	Jungle1 R
267	Pop1		282	Latin4		297	Jungle2
268	Pop1 R		283	Session1		298	Jungle2 R
269	Pop2		284	Session2		299	Jungle3
270	Pop2 R		285	Session3		300	Jungle3 R
271	Pop3		286	Session4		301	Jungle4
272	Pop3 R		287	Vintage1		302	Jungle4 R
273	Pop4		288	Vintage1 R		303	Fiesta1
274	Pop4 R		289	Vintage2		304	Fiesta1 R
275	Brush1		290	Vintage2 R		305	Fiesta2
276	Brush2		291	Vintage3		306	Fiesta2 R
277	Brush3		292	Vintage3 R		307	Fiesta3
278	Brush4		293	Vintage4		308	Fiesta3 R
279	Latin1		294	Vintage4 R		309	Fiesta4 R

No.	Name		No.	Name		No.	Name
310	Brush8		325	Rim16XNMas		340	Rim14MetaF
311	Brush10		326	10BigReverb		341	Rim16MetaF
312	Brush12		327	12BigReverb		342	10SoliNathan
313	Brush14		328	14BigReverb		343	12SoliNathan
314	BrushRim8		329	16BigReverb		344	14SoliNathan
315	BrushRim10		330	Rim10BigReverb		345	16SoliNathan
316	BrushRim12		331	Rim12BigReverb		346	Rim10SoliNat
317	BrushRim14		332	Rim14BigReverb		347	Rim12SoliNat
318	10XNMas		333	Rim16BigReverb		348	Rim14SoliNat
319	12XNMas		334	10MetaFilter		349	Rim16SoliNat
320	14XNMas		335	12MetaFilter		350	10SoliJP1
321	16XNMas		336	14MetaFilter		351	12SoliJP1
322	Rim10XNMas		337	16MetaFilter		352	14SoliJP1
323	Rim12XNMas		338	Rim10MetaF		353	16SoliJP1
324	Rim14XNMas		339	Rim12MetaF		354	Rim10SoliJP1

No.	Name		No.	Name		No.	Name
355	Rim12SoliJP1		370	80er1		385	909_TOM4
356	Rim14SoliJP1		371	80er2		386	TED_TOM1
357	Rim16SoliJP1		372	80er3		387	TED_TOM2
358	yt808ana1		373	80er4		388	TED_TOM3
359	yt808ana2		374	NOV_808TOM1		389	TED_TOM4
360	yt808ana3		375	NOV_808TOM2		390	X1_ETOM1
361	yt808ana4		376	NOV_808TOM3		391	X1_ETOM2
362	Li_HTO 1		377	NOV_808TOM4		392	X1_ETOM3
363	Li_HTO 2		378	SDS7_4TO1		393	X1_ETOM4
364	Li_HTO 3		379	SDS7_4TO2		RIDE	
365	Li_HTO 4		380	SDS7_4TO3		394	Rock
366	80_TOM1		381	SDS7_4TO4		395	Rock B
367	80_TOM2		382	909_TOM1		396	Rock E
368	80_TOM3		383	909_TOM2		397	Jazz
369	80_TOM4		384	909_TOM3		398	Jazz B

No.	Name		No.	Name		No.	Name
399	Jazz E		414	Techno 02		429	Pst20Ny2
400	Indie		415	Trance		430	Pst20Ny B
401	Indie B		416	Pop		431	Pst20Ny E1
402	Indie E		417	Pop B		432	Pst20Ny E2
403	Funk 02		418	Brush		433	Pst20Wd
404	Funk B 02		419	Brush B		434	Pst20Wd B
405	Funk E 02		420	Brush E		435	Pst20Wd E
406	Funk 01		421	Session		436	Pst20Br
407	Funk B 01		422	Vintage		437	Pst20Br B
408	Funk E 01		423	Vintage B		438	Pst20Br E
409	House 01		424	Jungle B		439	Pst21Ny1
410	House 02		425	Fiesta		440	Pst21Ny2
411	House 03		426	Fiesta B		441	Pst21 B1
412	RnB		427	Fiesta E		442	Pst21 B2
413	Techno 01		428	Pst20Ny1		443	Pst21 E

No.	Name		No.	Name		No.	Name
444	Pst21Br		458	Jazz1		473	Indie1 02
445	Pst21Br B		459	Jazz1 E 01		474	Indie2 02
446	Pst21Br E		460	Jazz2		475	Funk1 02
447	Pst21EDGMe		461	Jazz2 E		476	Funk2 02
448	Pst2TNy		462	JazzSplash 01		477	8Bit1
449	Pst2TNy B		463	JazzSplash 02		478	8Bit2
450	Pst2TNy E1		464	RockSplash		479	House 01
451	Pst2TNy E2		465	Jazz1		480	House 02
CRASH			466	Jazz1 E 01		481	House 03
452	Rock1		467	Jazz2		482	House 04
453	Rock1 E		468	Jazz2 E		483	Trance1
454	Rock2		469	JazzSplash 01		484	Trance2
455	Rock2 E		470	JazzSplash 02		485	Trap1 01
456	RockChina		471	Indie1 01		486	Trap2 01
457	RockSplash		472	Indie2 01		487	Pop1

No.	Name		No.	Name		No.	Name
488	Pop2		503	China12Mal		518	CrashB16 E
489	Session1		504	China14Mal		519	CrashB16 E
490	Session2		505	China16Mal		520	CrashB16
491	Vintage1		506	China20Sti		521	Crash18
492	Vintage2		507	China30		522	Crash18 B
493	Jungle1		508	Crash14 E		523	Crash18Br
494	Jungle2		509	Crash14		524	Crash18 E1
495	Fiesta1		510	Crash16 E		525	Crash18 E2
496	Fiesta2		511	Crash16		526	Crash20
497	SplashA12		512	Crash17		527	Crash20Beat
498	SplashA12 E		513	Crash17br		528	Crash20Br
499	SplashB12		514	Crash17 E		529	Crash20EDGE
500	SplashB12 E		515	Crash17		530	808_1CYMB
501	Splash8		516	Crash18		531	NOV_CYMB
502	Splash8E		517	Crash18 E		532	Y808crash

No.	Name		No.	Name		No.	Name
HI-HAT			547	Metal O		562	House O 03
533	Rock O		548	Metal C		563	House C 03
534	Rock C		549	Metal P		564	RnB O 01
535	Rock P		550	Funk O 01		565	RnB C 01
536	Rock Half-O		551	Funk C 01		566	RnB O 02
537	Rock P Sp		552	Funk P 01		567	RnB C 02
538	Jazz O 01		553	Funk O 02		568	Techno O 01
539	Jazz C 01		554	Funk C 02		569	Techno C 01
540	Jazz P 01		555	Funk P 02		570	Techno O 02
541	Jazz O 02		556	8Bit O		571	Techno C 02
542	Jazz C 02		557	8Bit C		572	Trance O 01
543	Jazz P 02		558	House O 01		573	Trance C 01
544	Indie O 02		559	House C 01		574	Trance O 02
545	Indie C 02		560	House O 02		575	Trance C 02
546	Indie P 02		561	House C 02		576	Trap O 01

No.	Name		No.	Name		No.	Name
577	Trap C 01		592	Session O		607	Fiesta C
578	Trap O 02		593	Session C		608	Fiesta P
579	Trap C 02		594	Session P		609	Fiesta Half
580	Trap O 03		595	Session Sp		610	Fiesta Sp
581	Trap C 03		596	Vintage O		611	CCMHH O
582	Pop O		597	Vintage C		612	CCMHH C
583	Pop C		598	Vintage P		613	CCMHH P
584	Pop P		599	Vintage Half-Open		614	CCMHH Half
585	Pop Half		600	Vintage Sp		615	CCMHH Sp
586	Pop Sp		601	Jungle O		616	BalHH O
587	Brush O		602	Jungle C		617	BalHH C
588	Brush C		603	Jungle P		618	BalHH P
589	Brush P		604	Jungle Half		619	BalHH Half
590	Brush Half		605	Jungle Sp		620	BalHHS
591	Brush Sp		606	Fiesta O		621	CDHH O

No.	Name		No.	Name		No.	Name
622	CDHH C		637	909HHCL		651	8BitFX01
623	CDHH P		638	909HHCL2		652	8BitFX02
624	CDHH Half		639	CR78_HHO		653	8BitFX03
625	CDHH Sp		640	CR78_HHC		654	HouseFX01
626	CCO O		641	NOV_HHOP		655	HouseFX02
627	CCO C		642	NOV_1HHC		656	HouseFX03
628	CCO P		643	SakataHH O		657	HouseFX04
629	CCO Half		644	SakataHH C		658	HouseFX05
630	CCO Sp		645	SakataHH P		659	HouseFX06
631	808_2HH O		646	Y808HH O		660	TranceFX01
632	808_3HH O		647	Y808HH C		661	TranceFX02
633	808_HH C1		PERCUSSION			662	TranceFX03
634	808_HH C2		648	Cowbell		663	TranceFX04
635	808HH P		649	FunkPerc 01		664	TranceFX05
636	909HHOP2		650	FunkPerc 02		665	TrapFX01

No.	Name		No.	Name		No.	Name
666	TrapFX02		677	ShakerLong		688	SakataAgogo
667	El Shaker		678	NoClp		689	Elec9Clap
668	El Co bell		679	SDS7_CLP		690	626_TAM
669	Dub FX01		680	Soli909_CLAP		691	707_TAMB
670	Dub FX02		681	909Clp		692	ABcowbell
671	Dub FX03		682	808Clp		693	C78_Guiro
672	Dub FX04		683	Abs		694	808congalo
673	Dub FX05		684	Abs5		695	808congame
674	Agogo01		685	808congahi		696	Y30ZAP2
675	Agogo02		686	808 claves		697	X10_ZAP
676	ShakerShort		687	808 shaker			

