Millenium **Drums**

MPS-350

User Manual

E-Drum Module

Table of contents

Table of contents

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 – 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). 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.

3   Features

- 500 timbres (voices)
- 25 pre-programmed drum kits
- 35 pre-programmed songs
- 128 MIDI sounds
- Placing a sound within the stereo panorama
- Snare pad with rim click zone
- Metronome
- Bluetooth
- Flexible assignment of voices
- Reverb effect, percussion sounds, sound effects and electronic sounds
- Individual adjustment of accompaniment and drum track
- 1 × USB interface for an external MIDI device
- 2 × input socket for an additional crash cymbal and external audio devices such as MP3 players or CD players
- 2 × output socket for headphones and external audio devices such as amplifiers and monitors
- Operating system: Windows® 8 and later, Mac OS X® 10.8 and later

4   Installation

Setup, connecting pads and pedals

> ⓘ *The setup of the pads and pedals is described in detail in the enclosed assembly instructions.*

Check that all connecting cables between the pads and the e-drum module are correctly connected.

Connecting the power adapter

Connect the included power adapter to the 9V connection socket *[DC9V]*. Plug the power adapter into the wall outlet.

Connecting headphones

Connect your stereo headphones to the output socket 🎧.

Connecting audio devices

Connect the input of your amplifier or active monitor to the *[OUTPUT]* socket.

Connecting a CD player or MP3 player

Connect a CD player or MP3 player to the *[AUX]* input socket.

Connecting USB devices

> *Use a current operating system still supported by the provider to avoid technical difficulties.*
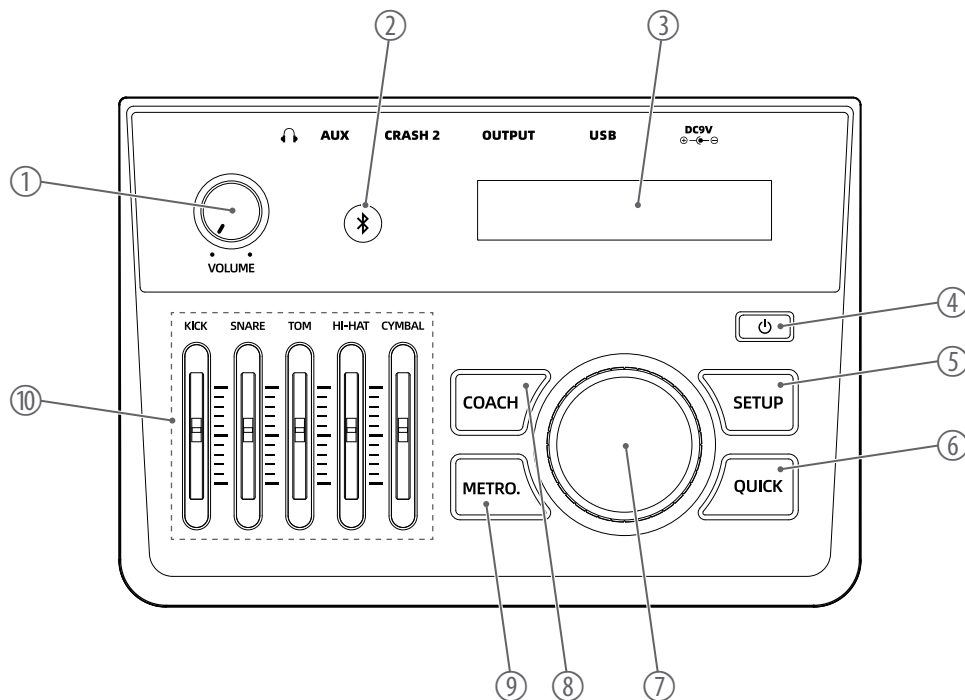
Connect external MIDI devices or your computer to the USB interface *[USB]*.

Connecting an additional crash cymbal

Connect an additional crash cymbal to the input socket *[Crash 2]*.

5   Connections and controls

Front panel

	1	*[VOLUME]*	Volume control for the audio output and the headphone output of the device
	2	✳	Turns Bluetooth on and off.
	3	Display
	4	⏻	Main switch. Turns the device on and off.
	5	*[SETUP]*	Opens the *'SETUP MENU'* for changing device settings and parameters.
	6	*[QUICK]*	Opens the *'KIT EDIT'* menu for quickly setting parameters of the drum kits.
	7	Jog wheel for selecting a drum kit and setting parameters
	8	*[COACH]*	Opens the song selection menu.
	9	*[METRO.]*	Opens the menu for setting the metronome.
	10	Volume controls for the pads and cymbals
		[KICK]	Adjusts the volume of the bass drum pad.
		[SNARE]	Adjusts the volume of the snare pad.
		[TOM]	Adjusts the volume of the 3 tom pads.
		[HI-HAT]	Adjusts the volume of the hi-hat cymbal and the hi-hat pedal.
		[CYMBAL]	Sets the volume of the crash cymbal (Crash 1 and Crash 2) and the ride cymbal.

Rear panel
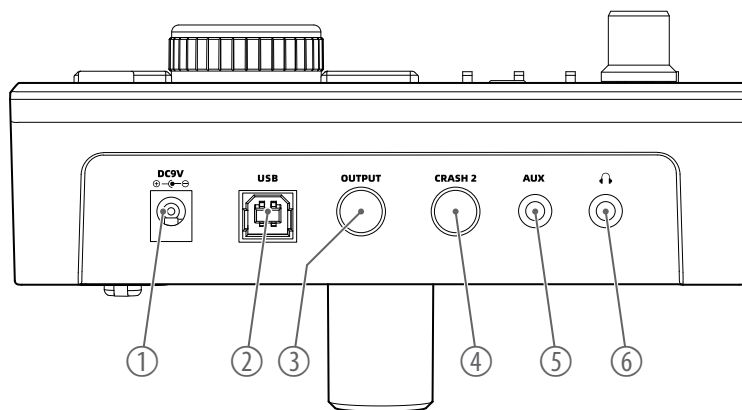
1	*[DC9V]*	Connection socket for the power adapter for power supply
2	*[USB]*	Input for an external MIDI device with USB interface
3	*[OUTPUT]*	Output for external audio devices, designed as 6.35 mm jack socket
4	*[CRASH 2]*	Input for an additional crash cymbal, designed as 6.35 mm jack socket
5	*[AUX]*	Input for external audio devices such as MP3 players or CD players, designed as 3.5 mm jack socket
6	🎧	Headphone output, designed as 3.5 mm jack socket

Underside
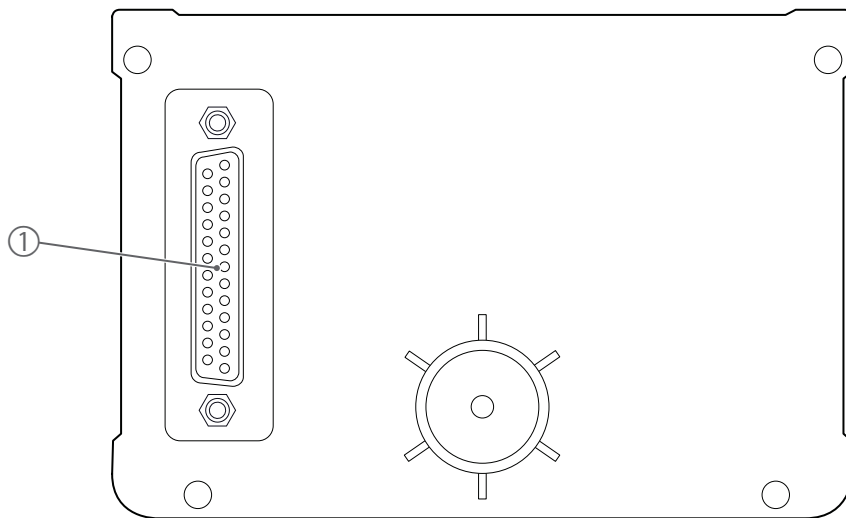
| 1 | Multiple socket for connecting the D-Sub connector |

6   Operating

6.1   Switching the device on and off

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

Turn the device on and off with the main switch ⏻. The current device settings are retained when switching off.

Setting the automatic shutoff

```
SETUP MENU
AUTO OFF [OFF] ◀
```

1. ▸ Press *[SETUP]*.

2. ▸ Turn the jog wheel until *'AUTO OFF [XXX]'* appears.

3. ▸ Press the jog wheel.

4. ▸ Turn the jog wheel until the required setting *'[OFF]'* (automatic shutoff disabled), *'[30 MIN]'* (shutoff after 30 minutes) or *'[1HOUR]'* (shutoff after 1 hour) is displayed.

5. ▶ Press the jog wheel.

⇨ The setting is saved.

6.2 Adjusting the volume

Setting the overall volume

The total volume includes the volume of all pads and cymbals. With the adjustment of the total volume, you can adjust the playback via the audio output and headphone output to your needs.

1. ▶ Slowly turn the *[VOLUME]* control clockwise.

2. ▶ If you have connected an audio device such as an amplifier or active monitor, adjust the volume of the device and the audio device at the same time.

Adjusting the volume of a pad or cymbal

▶ Slide the respective volume control *[KICK]*, *[SNARE]*, *[TOM]*, *[HI-HAT]* or *[CYMBAL]* up (loud) or down (quiet).

6.3 Playing, setting and accompanying songs

Selecting and playing songs

The device has 35 pre-programmed songs. You can play the songs and accompany them on the device.

A song contains a bass part, a drum part (containing the rhythm in which you play the pads) and an accompaniment part (percussion and melody). The volume of the parts can be adjusted separately and the playback speed can be adjusted.

> *The song list is available for download on the product page at www.thomann.de.*
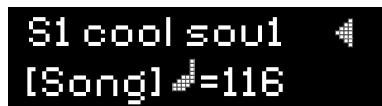
1. ▶ Press *[COACH]*.

⇨ The name and number of the current song are displayed in the display.

2. ▶ Turn the jog wheel until the required song is displayed.

⇨ Once the countdown has expired, the selected song is played automatically.

3. ▶ To pause or replay the song, press the jog wheel.

4. ▶ Press *[COACH]* to exit the song selection.

Setting a song

1. ▸ Play a song.

2. ▸ Press *[SETUP]*.

3. ▸ Turn the jog wheel until the required parameter is displayed.

4. ▸ Press the jog wheel.

5. ▸ Turn the jog wheel until the required value is displayed.

6. ▸ Press the jog wheel.

   ⇨ The setting is saved.

Parameter	Display	Meaning	Value range
Bass Volume	*'Bass Vol'*	Bass drum volume	0…100
Drum Volume	*'Drum Vol'*	Drum kit volume	0…100
Melodic Instrument Volume	*'Acc Vol'*	Accompaniment volume	0…100
BPM	*'BPM'*	Playback speed	40…240

6.4 Selecting and adjusting a drum kit

A drum kit is a compilation in which a specific sound (voice) and several sound parameters are assigned to each pad and cymbal. The pre-programmed voices of can be programmed to any of the connected pads and cymbals.

Selecting different drum kits lets you customise the sound in seconds to the desired music genre. The device has 25 pre-programmed drum kits.

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

Selecting a drum kit

`K1 Pop Stage`
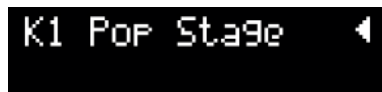
Turn the jog wheel until the desired drum kit is displayed.

⇨ The setting is automatically stored.

Names of the pads and cymbals

Display	Meaning
'KICK'	Bass drum pad
'SNARE'	Snare pad
'X-STICK'	Edge of the snare pad (rim click zone)
'TOM1'	Left tom pad
'TOM2'	Middle tom pad
'TOM3'	Right tom pad
'CRASH1'	Area between the edge and the bell of the crash cymbal
'CRASH1 E'	Edge of the crash cymbal
'RIDE BOW'	Area between the edge and the bell of the ride cymbal
'RIDE CUP'	Area between the edge and the bell of the ride cymbal (firm strike)
'RIDE EDG'	Edge of the ride cymbal
'HH OPEN'	Hi-hat cymbal without hi-hat pedal
'HH CLOSE'	Hi-hat cymbal with hi-hat pedal
'HH CTRL'	Hi-hat pedal

Setting the kit volume

```
SET[EDIT]-Level◀
KICK       :125
```

1. ▶ Press *[QUICK]*.

2. ▶ Turn the jog wheel until *'SET[EDIT]-Level'* is displayed.

3. ▶ Press the jog wheel.

4. ▶ To activate the desired pad or cymbal, strike the pad or cymbal.

   ⇨ The display shows the name of the pad or cymbal.

5. ▶ Turn the jog wheel until the required volume from *'0'* (low) to *'127'* (high) is displayed.

6. ▶ Press the jog wheel.

7. ▶ Press *[QUICK]* to exit the menu.

   ⇨ The setting is saved.

Assigning a voice

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

`SET[EDIT]-Voice◀`
`KICK    :[BD]5`

1. ▶ Press *[QUICK]*.

2. ▶ Turn the jog wheel until *'SET[EDIT]-Voice'* is displayed.

3. ▶ Press the jog wheel.

4. ▶ To activate the desired pad or cymbal, strike the pad or cymbal.

   ⇨ The display shows the name of the pad or cymbal.

5. ▶ Turn the jog wheel until the required voice is displayed.

6. ▶ Press the jog wheel.

7. ▶ Press *[QUICK]* to exit the menu.

   ⇨ The setting is saved.

Display	Meaning	Value range
'[BD]X'	Bass drum pad	1…20
'[SD]X'	Snare pad	1…42
'[XR]X'	Edge of the snare pad (rim click zone)	1…27

Display	Meaning	Value range
'[TM]X'	Left tom pad	1…50
'[CR]X'	Area between the edge and the bell of the crash cymbal	1…34
'[RD]X'	Area between the edge and the bell of the ride cymbal	1…21
'[HO]X'	Hi-hat cymbal without hi-hat pedal	1…25
'[HC]X'	Hi-hat cymbal with hi-hat pedal	1…26
'[HP]X'	Hi-hat pedal	1…16
'[FX]X'	Sound effects and electronic sounds	1…37
'[PR]X'	Percussion sounds	1…24

Setting the voice volume

```
SET[EDIT]-Pitch◀
KICK      :63
```

1. ▶ Press *[QUICK]*.

2. ▶ Turn the jog wheel until *'SET[EDIT]-Pitch'* is displayed.

3. ▶ Press the jog wheel.

4. ▶ To activate the desired pad or cymbal, strike the pad or cymbal.

   ⇨ The display shows the name of the pad or cymbal.

5. ▷ Turn the jog wheel until the required volume from '0' (low) to '127' (high) is displayed.

6. ▷ Press the jog wheel.

7. ▷ Press [QUICK] to exit the menu.

⇨ The setting is saved.

Setting the reverb effect

```
SET[EDIT]-Rev.  ◀
KICK      :64
```

1. ▷ Press [QUICK].

2. ▷ Turn the jog wheel until 'SET[EDIT]-Rev' is displayed.

3. ▷ Press the jog wheel.

4. ▷ To activate the desired pad or cymbal, strike the pad or cymbal.

⇨ The display shows the name of the pad or cymbal.

5. ▷ Turn the jog wheel until the required reverb effect is displayed from '0' (low) to '127' (high).

6. ▷ Press the jog wheel.

7. ▷ Press [QUICK] to exit the menu.

⇨ The setting is saved.

Setting other parameters

```
SETUP MENU
K1  KIT SETUP    ◀
```

You can set additional parameters for the selected drum kit in the *'KIT SETUP'* menu.

1. ▸ Press *[SETUP]*.

2. ▸ Turn the jog wheel until *'KX KIT SETUP'* appears.

3. ▸ Press the jog wheel.

4. ▸ Turn the jog wheel until the required parameter is displayed.

5. ▸ Press the jog wheel.

6. ▸ Turn the jog wheel until the required value is displayed.

7. ▸ Press the jog wheel.

8. ▸ Press *[SETUP]* to exit the menu.

⇨ The setting is saved.

Parameter	Display	Meaning	Value range
Trigger Scan	*'1. TRIG SCAN'*	Monitoring time between 2 trigger signals The higher the value, the longer the monitoring time. Set the value as low as possible.	1…21
EQ bass	*'2. EQ BASS'*	Volume of low frequencies.	−64…63
EQ treble	*'3. EQ TREBLE'*	Volume of high frequencies	−64…63

Parameter	Display	Meaning	Value range
Reverb Volume	*'4. REV VOL'*	Volume of the reverb effect	0…127
Reverb Type	*'5. REV TYPE'*	Reverb effect type ■ *'0'* Room 1: Reverberation of a small room. Ideal for a natural, close sound. ■ *'1'* Room 2: Reverberation of a small space with a little more depth and presence. The sound is more lively. ■ *'2'* reverb: Reverberation of a large room or hall. The sound is smoother and more comprehensive. ■ *'3'* Studio: Reverberation of a recording studio. The sound is clear and defined. ■ *'4'* Stage: Reverberation of a live performance room or stage.	0…4

Parameter	Display	Meaning	Value range
Local sound	*'6. LOCAL'*	Internal sound generation ■ *'ON'*: The pads trigger the internal sounds of the device directly. ■ *'OFF'*: The device sends MIDI data without outputting the internal sounds. The preset value is *'ON'*.	ON/OFF
MIDI channel	*'7. MIDI CH'*	MIDI channel through which the device communicates with other MIDI devices The preset value is *'10'*.	1…16

Resetting a drum kit to the factory defaults

```
K1 KIT RESET
Sure?  YES      ◀
```
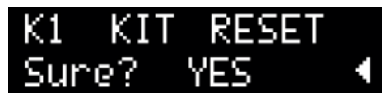
1. ▸ Select the required drum kit.
2. ▸ Press *[SETUP]*.
3. ▸ Turn the jog wheel until *'KIT RESET'* appears.
4. ▸ Press the jog wheel.
5. ▸ Turn the jog wheel until *'Sure? YES'* is displayed.

6. ▶ Press the jog wheel.

⇨ The selected drum kit is reset to factory defaults.

6.5 Playing a drum kit

> *The lifespan of the bass drum pad's mesh head skin is significantly extended by using the black plastic side of the bass drum beater. Using the felt side will accelerate the abrasion and possible tearing of the mesh head skin.*
>
> *The bass drum beater can be turned 180 degrees by loosening the fastening screw.*

Like on an acoustic drum kit, the pads respond to different playing techniques and dynamics. All pads are velocity sensitive. Some voices change their timbre depending on the punch used.

Snare pad

- **Head**: Strike the head only.
- **Rimshot**: Simultaneously strike the head and the rim or only the rim of the pad.

Crash cymbal and ride cymbal

- **Bow**: Play in the area between the edge and the bell of the cymbal.
- **Edge**: Play at the edge of the cymbal.
- **Choke**: Choke play is possible with crash and ride cymbals but not with the hi-hat cymbal. Stop the sound of the crash cymbals and ride cymbals by placing your hand on the edge of the cymbal immediately after hitting it.

Hi-hat cymbals

- **Open hi-hat**: Strike the hi-hat cymbal without pressing the pedal.
- **Closed hi-hat**: Strike the hi-hat cymbal with fully pressed pedal.
- **Hi-hat pedal**: Press the hi-hat pedal to produce a closed sound without striking the hi-hat cymbal.

6.6   Setting the trigger parameters

You can adjust the strike behaviour according to your needs by means of the following parameters.

> *The trigger settings affect all drum kits. When you set one of the parameters, the setting is automatically applied to all drum kits.*

1. ▸ Press *[QUICK]*.

2. ▸ Turn the jog wheel until the required parameter is displayed.

3. ▸ Press the jog wheel.

4. ▸ To activate the desired pad or cymbal, strike the pad or cymbal.

   ⇨   The display shows the name of the pad or cymbal.

5. ▸ Turn the jog wheel until the required value is displayed.

6. ▸ Press the jog wheel.

7. ▸ Press *[QUICK]* to exit the menu.

   ⇨   The setting is saved.

Parameter	Display	Meaning	Value range
Panorama	*'SET[EDIT]-Pan'*	Placing a sound within the stereo panorama	0…127
Velocity	*'SET[EDIT]-Velo.'*	The trigger curve regulates the velocity, i.e. the ratio between the strike and volume. ■ *'0'* Linear: Volume increases proportionally to the strike intensity. ■ *'1'* Exponential 1: Lighter strikes are less responsive, while stronger strikes are more accentuated. ■ *'2'* Exponential 2: Similar to Exponential 1, but with a slightly different curve shape that further adjusts the dynamics. ■ *'3'* Exponential 3: An even stronger emphasis on loud beats compared to the quieter ones, which can reinforce the expression during powerful play.	0…7

Parameter	Display	Meaning	Value range
		■ '4' Logarithmic 1: Volume is raised less, especially for high strikes. The parameter ensures a smoother transition zone between the stops. ■ '5' Logarithmic 2: Another logarithm form to further modulate the dynamics. ■ '6' Loud 1: Emphasises the loud beats even more and ensures that the volume rises sharply after firm strikes. ■ '7' Loud 2: Different intensity that further adjusts the feel and emphasizes the volume during heavy beats.	
Sensitivity	'SET[EDIT]-Sens.'	Sensitivity of the pads and cymbals '0': High sensitivity '127': Low sensitivity	0…127

Parameter	Display	Meaning	Value range
Scan Mask Time	*'SET[EDIT]-Mask'*	When the beater strikes the bass drum again when the bass drum is played, multiple sounds are produced in a row, which is referred to as "double triggers". With mask time, these distortions can be suppressed. The higher the value is, the higher the likelihood that rapidly successive strikes - such as in a drum roll - are no longer detected. Set the value as low as possible.	0…250
MIDI Note Number	*'SET[EDIT]-Note'*	Assigned MIDI note number	21…108

6.7 Crosstalk correction

If several pads and cymbals are mounted on a rack, vibrations can be transmitted to other pads and cymbals when you hit a trigger and unintentionally trigger sounds. This crosstalk can be avoided by means of the appropriate setting.

In the following example, the snare pad is struck and a crash cymbal sound is heard. The crosstalk of the crash basin should be corrected.

```
SETUP MENU
XTALK SETUP      ◀
```
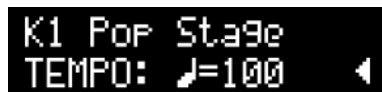
1. ▶ Press *[SETUP]*.

2. ▶ Turn the jog wheel until *'XTALK SETUP'* appears.

3. ▶ Press the jog wheel.

4. ▶ Hit the snare pad.

⇨ The display shows *'[SD]'*.

```
XTALK SETUP
[SD]- BD    :12 ◀
```

5. ▶ Press the jog wheel.

6. ▶ Press *[COACH]*.

⇨ The crash cymbal is selected automatically, in the example *'[CR1]'*.

```
XTALK SETUP
 SD -[CR1] :12 ◀
```

7. ▶ Turn the jog wheel until the lowest value is displayed.

8. ▶ Press *[SETUP]*.

⇨ The setting is saved.

6.8 Adjusting the metronome
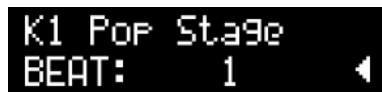
Switching the metronome on and off

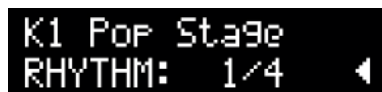Turn the metronome on and off with *[METRO.]*.

Setting the speed

```
K1 Pop Stage
TEMPO: ♩=100    ◀
```

Turn the jog wheel until the required speed from *'40'* (slow) to *'240'* (fast) is displayed.
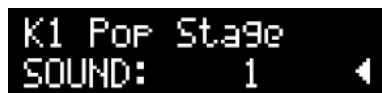
  ⇨   The setting is saved.

Setting the time signature

```
K1 Pop Stage
BEAT:      1    ◀
```

1. Press *[SETUP]* until *'BEAT: X'* is displayed.

2. Turn the jog wheel until the required time signature of *'1'* (1 beat per measure, 1/4 time) to *'8'* (8 beats per measure, 8/8 time).

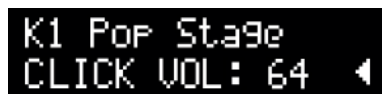 ⇨   The setting is saved.

Setting the beat interval

```
K1 Pop Stage
RHYTHM:   1/4   ◀
```

1. Press *[SETUP]* until *'RHYTHM: XXX'* appears.

2. Turn the jog wheel repeatedly until the required beat interval *'1/4'*, *'1/8'*, *'1/8 A'*, *'trip'*, *'trip A'*, *'1/16'*, *'1/16 A'*, *'1/16 B'*, *'1/16 C'*, *'1/16 D'*, *'1/16 E'* or *'6 Tup 1'* is displayed.

  ⇨   The setting is saved.

Setting the sound

```
K1 Pop Stage
SOUND:      1    ◀
```

1. ▶ Press *[SETUP]* until *'SOUND: X'* is displayed.
2. ▶ Turn the jog wheel repeatedly until the required sound from *'1'* to *'10'* is displayed.

   ⇨ The setting is saved.

Adjusting the volume

```
K1 Pop Stage
CLICK VOL: 64    ◀
```

1. ▶ Press *[SETUP]* until *'CLICK VOL: X'* is displayed.
2. ▶ Turn the jog wheel repeatedly until the required volume from *'1'* (soft) to *'100'* (loud) is displayed.

   ⇨ The setting is saved.

6.9   Setting the hi-hat pedal

If the hi-hat pedal is not working properly, the sensitivity of the sensor may be set incorrectly.
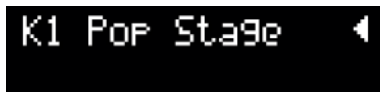
1. ▶ Switch off the device.
2. ▶ Press the jog wheel and the main switch ⏻ at the same time.

   ⇨ The device is turned on.

   ⇨ The display shows *'HI-HAT FOOT SET'* .

```
HI-HAT FOOT SET
HHF:14 / 60    M◀
```

3. ▶ Turn the jog wheel until the values are displayed as shown in the figure.

4. ▶ Press the hi-hat pedal and keep the pedal pressed.

```
K1 Pop Stage    ◀
```

⇨ The display shows *'K1 Pop Stage'*.

5. ▶ Open the hi-hat pedal.

⇨ The sensitivity of the sensor is set.

6.10 Connecting the device via Bluetooth

Connecting the device

> ⓘ *Bluetooth volume is preset according to the Android system. Adjust the volume accordingly if you are using a device with an iOS system.*
>
> *Before changing the Bluetooth connection, disconnect the current connection.*

1. ▶ Hold down ✲.

⇨ The Bluetooth LED lights up blue.

2. ▶ Connect your device to the "MPS-350" e-drum module.

⇨ A beep sounds when the e-drum module is connected to your device.

Adjusting the volume

1. ▶ Press *[SETUP]*.

2. ▶ Turn the jog wheel until *'BT VOLUME'* is displayed.

3. ▶ Press the jog wheel.

4. ▶ Turn the jog wheel until you have set the required volume.

5. ▶ Press *[SETUP]*.

⇨ The set volume is displayed.

6. ▶ Press *[SETUP]* again to exit the menu.

⇨ The setting is saved.

6.11 Resetting the device to factory defaults

FACTORY RESET
Sure?   YES   ◀
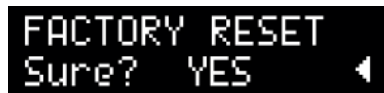
1. ▶ Press *[SETUP]*.

2. ▶ Turn the jog wheel until *'FACTORY RESET'* is displayed.

3. ▶ Press the jog wheel.

4. ▶ Turn the jog wheel until *'Sure? YES'* is displayed.

5. ▶ Press the jog wheel.

⇨ The device is reset to the factory defaults.

6.12 MIDI implementation

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

7 Technical specifications

Input connections	Power supply	Connection socket for the power adapter
	USB port	USB MIDI
	Combined trigger connection	1 × D-sub plug connector
	AUX	1 × 3.5 mm jack socket
	Crash 2	1 × 6.35 mm jack socket
Output connections	Headphones	1 × 3.5 mm jack socket
	Audio	1 × 6.35 mm jack socket
Timbres	500	
Effects	Reverb, EQ (Equalizer)	
Drum kits	25 preset kits	
Demo and practise songs	35 pre-programmed songs	
MIDI sounds	128	
Bluetooth®	Frequency range	2.400 GHz…2.4835 GHz
	Max. transmission power	7 dBm

	Standard	Version 5.0
Power supply	External power adapter, 100 - 240 V ∼ 50/60 Hz	
Operating voltage/current	9 V ⎓ / min. 500 mA, polarity: Centre negative	
Operating system	Windows® 8 and later, Mac OS X® 10.8 and later	
Dimensions (W × H × D)	160 mm × 110 mm × 90 mm	
Weight	320 g	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20%…80% (non-condensing)

Further information

Rack included	Yes
Seat included	No
Bass drum pedal included	Yes
Headphones included	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!

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

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
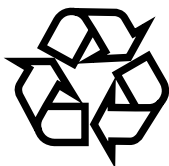
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.
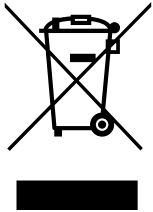
Do not dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the instructions and markings on the packaging.

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.

Notes