Startone ★

FP-90

Digital Piano

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 – dangers due to batteries.
	Warning – danger zone.

2   Safety instructions

Intended use

This device is intended to be used for electronic sound generation using a piano keyboard. Use the device only as described in this user manual. Any other use or use under other operating conditions is considered to be improper and may result in personal injury or property damage. No liability will be assumed for damages resulting from improper use.

This device may be used only by persons with sufficient physical, sensorial, and intellectual abilities and having corresponding knowledge and experience. Other persons may use this device only if they are supervised or instructed by a person who is responsible for their safety.

Safety

DANGER!

Risk of injury and choking hazard for children!

Children can suffocate on packaging material and small parts. Children can injure themselves when handling the device. Never allow children to play with the packaging material and the device. Always store packaging material out of the reach of babies and small children. Always dispose of packaging material properly when it is not in use. Never allow children to use the device without supervision. Keep small parts away from children and make sure that the device does not shed any small parts (such knobs) that children could play with.

WARNING!

Possible hearing damage due to high volumes on 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.

WARNING!

Incorrect handling of lithium batteries can result in injury!

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

NOTICE!

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!**

Possible damage to lithium-ion batteries through incorrect storage!

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

! **NOTICE!**

Possible staining due to plasticiser in rubber feet!

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

! **NOTICE!**

Potential property damage due to unsuitable stands!

If the device is mounted on an unsuitable stand, there is a risk that the stand will fall over and cause damage. Only use stands whose maximum bearing capacity is at least as high as the weight of the device. Always ensure that the stand is stable.

3 Features

The digital piano offers the following features:

- 88 buttons with touch velocity
- Digital display
- 128 sounds
- 128 rhythms
- 20 songs
- 32-voice polyphony
- Record and playback function
- Tempo control
- Dual mode
- Learning mode
- Bluetooth® audio/MIDI
- Integrated metronome
- Automatic shutoff
- Operation via 5 V plug-in power supply (not contained in the scope of delivery) or built-in battery
- Operating system: Windows® 8 and later, Mac OS X® 10.8 and later

4   Installation

The device can be operated via a 5 V plug-in power supply (not contained in the scope of delivery). Connect the cable of the 5 V plug-in power supply to the *[USB]* USB connection on the back of the device and connect the 5 V plug-in power supply to the power supply.

Alternatively, the device can be operated with the built-in lithium-ion battery. To charge the battery, use a 5 V plug-in power supply (not contained in the scope of delivery). Connect the cable of the 5 V plug-in power supply to the *[USB]* USB connection on the back of the device and connect the 5 V plug-in power supply to the power supply. During charging, the charging indicator on the back of the device lights up red. The charging indicator lights up green when the battery is fully charged.

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

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

Opening and closing the device

Unfold the device until the lock audibly clicks into place.

To fold up the device, press the release button on the underside of the device to release the lock and fold up the device. Store the device in its original packaging when it is not in use.

Standby operation

The device automatically switches to standby mode if you do not press any of the buttons for about ten minutes. To return to the normal operating mode, switch the device on again.

5   Connection options

Headphones
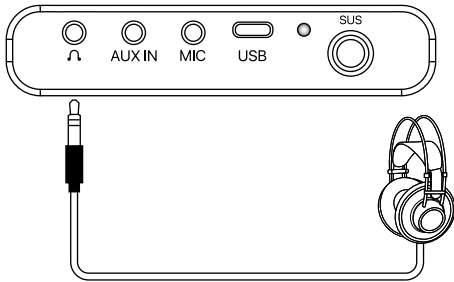
The headphone output ⌒ is located on the back of the device.

If you connect headphones (not included in the scope of delivery) to the headphone output, this switches off the speakers.
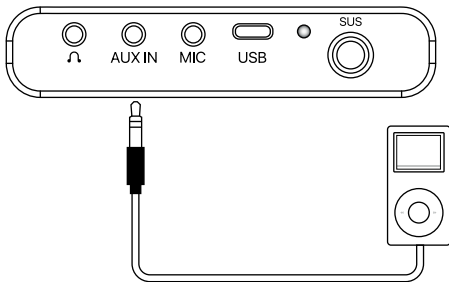
> ⚠️ **WARNING!**
>
> **Possible hearing damage due to high volumes on headphones!**
>
> The use of headphones at high volumes may result in permanent hearing impairment. Over an extended period of time, even levels that seem to be uncritical can cause hearing damage.
>
> Avoid operating headphones at high volumes, in particular over an extended period of time.

External audio devices

For example, you can connect a CD or MP3 player to the device via the *[AUX IN]* input. This allows you to play songs through the device's internal speakers and accompany them at the same time.
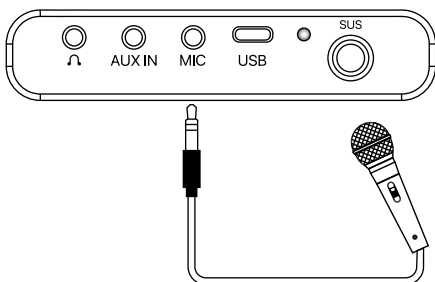
> ❗ **NOTICE!**
>
> **Damage to the speaker due to excessive volume!**
>
> If the volume is too high, this can damage the speakers.
>
> Avoid operating the device at excessively high volumes over an extended period of time.
>
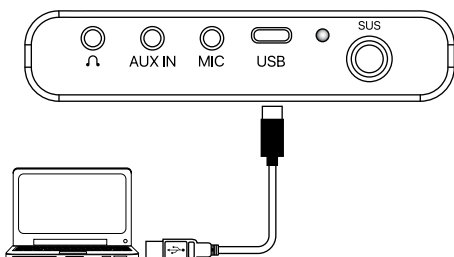> Turn the volume down to "Minimum" before you connect other devices.

Microphone

The *[MIC]* microphone input is located on the back of the device.

If you connect a microphone (not included in the scope of delivery) to the microphone input, this switches off the speakers.

Computer

The *[USB]* output is on the back of the device.

This output is used to transmit the MIDI data generated by the device to a PC (MIDI stands for "Musical Instrument Digital Interface"; it is a global standard that enables the electronic interaction of various instruments and sound modules).

At the same time, the audio signal from the device is transmitted to a connected PC via this output and can be recorded and reproduced using appropriate software.

> ⓘ *Use a current operating system still supported by the provider to avoid technical difficulties.*
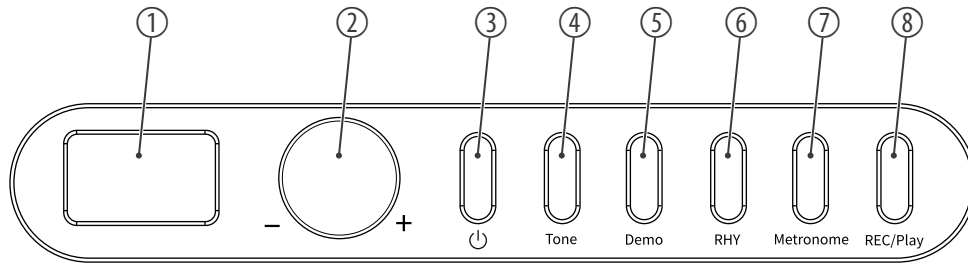
Pedal
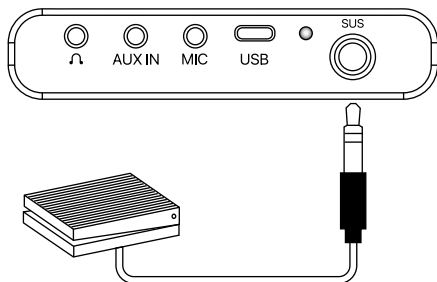
The *[SUS]* input for connecting a sustain pedal (not included in the scope of delivery) is located on the back of the device.

With the sustain pedal all played notes sound longer. This effect simulates the lifting of the damper in an analogue keyboard instrument.

6   Connections and controls

1	Display
2	*[–/+]* | Volume control for the built-in speakers and connected headphones.
	Press *[–/+]* to enter the settings menu. Then turn *[–/+]* to make the desired settings. Confirm the setting by pressing *[–/+]* again.
	To reset the settings to the factory setting, press and hold *[–/+]* for two seconds.
	Wait three seconds without pressing a button to exit the settings menu; now *[–/+]* serves as the volume control again.
3	⏻ | Main switch. Turns the device on and off.
4	*[Tone]* | Button for selecting sounds
5	*[Demo]* | Button for selecting songs
6	*[RHY]* | Button for selecting rhythms
7	*[Metronome]* | Button to turn the metronome on and off
8	*[REC/Play]* | Button for starting or playing back own recordings

Back
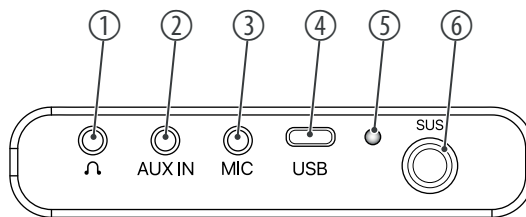
1	⌢ | Headphone output, designed as 3.5 mm jack socket
2	*[AUX IN]* | Input for an external audio device (e.g. MP3 or CD player), designed as a 3.5-mm jack socket
3	*[MIC]* | Microphone input, designed as a 3.5-mm jack socket
4	USB | Connection for an external 5 V plug-in power supply adapter, for charging the built-in battery or for connecting to a computer
5	Charging indicator. During charging of the built-in battery, the charging indicator lights up red. The charging indicator lights up green when the battery is fully charged.
6	*[SUS]* | Connection for a sustain pedal (not contained in the scope of delivery), designed as a 6.35-mm jack socket

7 Operation

7.1 Turning on / off

To switch the device on and off, press and hold the main switch ⏻ for one second.

> ⓘ *If you do not hear anything from the speakers, the volume may be set to "minimum". To increase the volume, turn the volume knob clockwise*

7.2 Automatic shutoff

If the device is not used for ten minutes, it switches off automatically. To turn it back on, press and hold the main switch ⏻ for one second. Automatic shutoff is activated by default.

Enabling/disabling automatic shutoff

1. ▶ Press *[–/+]* to enter the settings menu.
2. ▶ Turn *[–/+]* until the display shows *'Sleep mode'*.
3. ▶ Press *[–/+]* to confirm the selection.
4. ▶ Turn *[–/+]* and choose between *'On'* (automatic shutoff enabled) and *'Off'* (automatic shutoff disabled)
5. ▶ Wait three seconds without pressing a button to exit the settings menu.

7.3 Adjusting the volume

Turn the volume control *[–/+]* to set a volume between *'0'* and *'16'* that is pleasant for playback and practice.

> **!** **NOTICE!**
> **Damage to the speaker due to excessive volume!**
> If the volume is too high, this can damage the speakers.
>
> Avoid operating the device at excessively high volumes over an extended period of time.
>
> Turn the volume down to "Minimum" before you connect other devices.

1. ▶ Turn *[–/+]* clockwise to increase the volume.
2. ▶ Turn *[–/+]* anti-clockwise to reduce the volume.

7.4 Selecting and playing sounds

In total, the device has 128 sounds.

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

1. ▸ Press *[Tone]* to activate the selection.
   - ⇨ The display shows the first sound.
2. ▸ Turn *[–/+]* to select a desired sound.
3. ▸ Wait three seconds without pressing a button to exit the menu.

7.5 Selecting and playing songs

In total, the device has 20 songs.

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

1. ▸ Press *[Demo]* to activate the selection.
   - ⇨ The display shows the first song and the device starts playing immediately.
2. ▸ Turn *[–/+]* to select a desired song.
3. ▸ Press *[Demo]* again to end the playback.
4. ▸ Wait three seconds without pressing a button to exit the menu.

7.6 Selecting and playing rhythms

In total, the device has 128 rhythms.

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

1. ▸ Press *[RHY]* to activate the selection.
   - ⇨ The display shows the first rhythm and the device starts playing immediately.
2. ▸ Turn *[–/+]* to select a desired rhythm.
3. ▸ Press *[RHY]* again to end the playback.
4. ▸ Wait three seconds without pressing a button to exit the menu.

7.7 Metronome

1. ▸ Press *[Metronome]* to turn the metronome on.
   - ⇨ The display shows the currently set time signature.

2. ▸ Turn *[–/+]* to change the time signature.

3. ▸ Press *[Metronome]* again to switch off the metronome.

4. ▸ Wait three seconds without pressing a button to exit the menu.

7.8 Recording

1. ▸ Hold down hold *[REC/Play]* for one second to start recording mode.

2. ▸ The recording starts with the first keystroke.

3. ▸ Press *[REC/play]* to stop recording.

⇨ The saved recording is played back.

4. ▸ Press *[REC/PLAY]* again to stop playback.

5. ▸ Wait three seconds without pressing a button to exit the menu.

> *The device can only save one recording. If you record again, the saved recording is overwritten.*
>
> *If the device is connected to a PC, multiple recordings can be stored and played back on the PC with appropriate software.*

7.9 Tempo

All pre-programmed songs and the metronome function are stored with certain tempo information. The value is pre-set to *'120'* by default.

1. ▸ Press *[–/+]* to enter the settings menu.

2. ▸ Turn *[–/+]* until the display shows *'Tempo'*.

3. ▸ Press *[–/+]* to confirm the selection.

4. ▸ Turn *[–/+]* and set the tempo between *'-240'* and *'240'*.

5. ▸ Wait three seconds without pressing a button to exit the settings menu.

7.10 Transposing

You can use this function to adjust the pitch of the keyboard in semitone steps (6 at max.) up or down. The value is pre-set to *'0'* by default.

1. ▸ Press *[–/+]* to enter the settings menu.

2. ▸ Turn *[–/+]* until the display shows *'Trans'*.

3. ▸ Press *[–/+]* to confirm the selection.

4. ▸ Turn *[–/+]* and adjust the pitch between *'-6'* and *'6'* in half-tone increments.

5. ▸ Wait three seconds without pressing a button to exit the settings menu.

7.11   Dual mode

1. ▶ Press *[–/+]* to enter the settings menu.

2. ▶ Turn *[–/+]* until the display shows *'DKeyboard'*.

3. ▶ Press *[–/+]* to confirm the selection.

4. ▶ Turn *[–/+]* and choose between *'On'* (dual mode enabled) and *'Off'* (dual mode disabled).

5. ▶ Wait three seconds without pressing a button to exit the settings menu.

7.12   Learning mode

When practising, it is mainly important to play the right notes at the right time. In this mode you can check your progress. There are two training stages.

1. ▶ Press *[–/+]* to enter the settings menu.

2. ▶ Turn *[–/+]* until the display shows *'Teaching'*.

3. ▶ Press *[–/+]* to confirm the selection.

4. ▶ Turn *[–/+]* and choose between the exercise levels *'A-Mode'*, *'B-Mode'* and *'Off'* (learning mode deactivated).

'A-Mode'	This practise level only assesses whether you are playing notes at the right time, but not whether you are also hitting the right notes.
'B-Mode'	This practise level only assesses whether you hit the right notes, but not whether you also play the notes at the right time. The practise song only continues if you play the right notes.

5. ▶ As described under ✋ *Chapter 7.5 'Selecting and playing songs' on page 15*, select a song that you want to practise and start playing.

6. ▶ Wait three seconds without pressing a button to exit the settings menu.

7.13   Sustain effect

If the sustain effect is activated, all sounds played on the device will reverberate for longer.

1. ▶ Press *[–/+]* to enter the settings menu.

2. ▶ Turn *[–/+]* until the display shows *'Sustain'*.

3. ▶ Press *[–/+]* to confirm the selection.

4. ▶ Turn *[–/+]* and choose between *'On'* (sustain effect enabled) and *'Off'* (sustain effect disabled).

5. ▶ Wait three seconds without pressing a button to exit the settings menu.

7.14   Vibrato effect

When the vibrato effect is activated, all sounds played on the device are changed in height by a frequency that has been changed several times.

1. ▷ Press *[–/+]* to enter the settings menu.

2. ▷ Turn *[–/+]* until the display shows *'Vibrato'*.

3. ▷ Press *[–/+]* to confirm the selection.

4. ▷ Turn *[–/+]* and choose between *'On'* (vibrato effect enabled) and *'Off'* (vibrato effect disabled).

5. ▷ Wait three seconds without pressing a button to exit the settings menu.

7.15   Drum kit

When the drum kit is activated, all the sounds played on the device produce different drum sounds (bass drum, snare, hi-hat, cymbals and effects).

1. ▷ Press *[–/+]* to enter the settings menu.

2. ▷ Turn *[–/+]* until the display shows *'Drum Kit'*.

3. ▷ Press *[–/+]* to confirm the selection.

4. ▷ Turn *[–/+]* and choose between *'On'* (drum kit enabled) and *'Off'* (drum kit disabled).

5. ▷ Wait three seconds without pressing a button to exit the settings menu.

7.16   Touch velocity

This function is used to adjust the response of the keyboard. When touch velocity is activated, the volume of the sounds is higher the harder the keys are pressed.

1. ▷ Press *[–/+]* to enter the settings menu.

2. ▷ Turn *[–/+]* until the display shows *'Dynamic'*.

3. ▷ Press *[–/+]* to confirm the selection.

4. ▷ Turn *[–/+]* and choose between *'On'* (touch velocity enabled) and *'Off'* (touch velocity disabled).

5. ▷ Wait three seconds without pressing a button to exit the settings menu.

7.17   Bluetooth®

7.17.1   Bluetooth® MIDI

With the Bluetooth® MIDI connection, the device can be paired with smartphones, tablets or other mobile devices to enable a wireless MIDI connection. You can find suitable apps for controlling the device with your mobile device in the App Store® or on Google Play.

The Bluetooth® connection is activated by default.

1. ▶ Switch on the device and the mobile device.

2. ▶ Activate the Bluetooth® connection on your mobile device.

3. ▶ Open the app on your mobile device and pair it with the *'GZUT-MIDI'* device.

⇨ You can now control the device from your mobile device.

7.17.2 Bluetooth® AUDIO

The Bluetooth® audio connection allows the device to be paired with smartphones, tablets or other mobile devices to play an accompanying melody or music on the device.

The Bluetooth® connection is activated by default.

1. ▶ Switch on the device and the mobile device.

2. ▶ Activate the Bluetooth® connection on your mobile device.

3. ▶ Pair your mobile device with the *'GZUT-Music'* device.

⇨ After successful pairing, you will hear a signal sound; you can now play backing tunes or music via your mobile device.

4. ▶ Adjust the volume via your mobile device.

8 Troubleshooting

Problem	Possible causes and solutions
When the device is switched on and off, the speakers emit a "pop" sound.	This is normal. No need to worry.
No sound can be heard when playing the piano.	Make sure that the volume control is set to an appropriate level.
	Check if headphones are connected. The speakers of the device are muted when headphones are connected.
Interference occurs when a mobile phone is used.	Using a mobile phone near the device may cause interference. To prevent this, switch off the mobile phone or use it only at a sufficient distance.

If the procedures recommended above do not succeed, please contact our Service Center. You can find the contact information at *www.thomann.de*.

9   Technical specifications

|		
Input connections	Power supply / USB interface	1 × USB-C
	Microphone	1 × 3.5-mm jack socket
	Sustain pedal	1 × 6.35-mm jack socket
	AUX IN	1 × 3.5 mm jack socket
Output connections	Headphones	1 × 3.5-mm jack socket
Keyboard	88 buttons with touch velocity	
Polyphony	32-voice	
Sounds	128	
Rhythms	128	
Songs	20	
Effects	Sustain	
Pedals	Sustain	
Pitch adjustment	Transposing	−6…+6
Functions	Pedal support	Sustain
	Metronome	1/4, 2/4, 3/4, 4/4
	Tempo	−240…240
	Learning mode	A-mode, B-mode
	Bluetooth® MIDI	
	Bluetooth® AUDIO	
Demo and practise songs	20	
Speakers	2 × 3 W, 4 Ω	
Volume	+95 dB max.	
Bluetooth®	Frequency range	2402 MHz…2480 MHz
	Max. transmission power	2.5 mW or +4 dBm
	Standard	Version 5.1
Power supply	External power adapter, 100 - 240 V ∼ 50/60 Hz	
Power adapter	Secondary current	2,000 mA
	Secondary voltage	5 V ⎓
	Polarity	Centre negative
Battery	Battery type	Lithium-ion
	Voltage	3.7 V
	Capacity	1,800 mAh
	Operating time	5 h…8 h
	Charging time in the device	approx. 2 h…3 h
Operating system	Windows® 8 and later, Mac OS X® 10.8 and later	

Technical specifications

Dimensions (W × H × D)	1,234 mm × 62 mm × 218 mm (unfolded)	
	660 mm × 150 mm × 218 mm (folded)	
Weight	4.1 kg	
Colour	black	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20%…80% (non-condensing)

Further information

|	
Surface	Matt
Wooden keyboard	No
Ivory feel keyboard	No
Pressure point simulation	No
Keyboard cover	No
Auto accompaniment	Yes
Display	Yes
Sequencer	No
Learning function	Yes
Semi-pedal capable	No
Audio outputs	Yes
Audio inputs	Yes
USB-to-host	Yes
USB-to-device	No

10   Protecting the environment

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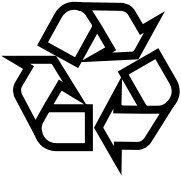
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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.
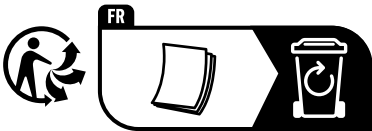
Observe the disposal note regarding documentation in France.

Disposal of batteries

Batteries must not be thrown away or burnt, but must instead be disposed of in line with the local regulations on the disposal of hazardous waste. Use the available collection sites.

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

Dispose of the batteries or rechargeable batteries at suitable collection points or through your local waste facility.

Disposal of your old device
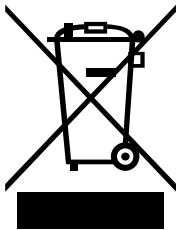
This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

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.

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

Notes

Notes