th•mann

DP-33

User Manual

Digital Piano

Thomann GmbH
Hans-Thomann-Straße 1
96138 Burgebrach
Germany
Telephone: +49 (0) 9546 9223-0
Internet: www.thomann.de

17.06.2024, ID: 326890, 347195 (V2)

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.
CAUTION!	This combination of symbol and signal word indicates a possible dangerous situation that can result in minor injury if it is not avoided.
NOTICE!	This combination of symbol and signal word indicates a possible dangerous situation that can result in material and environmental damage if it is not avoided.

Warning signs	Type of danger
	Warning – high-voltage.
	Warning – danger zone.

2 Safety instructions

Intended use

This device is 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.

DANGER!

Risk of death from electrical current!

A short circuit can cause fires and loss of life. Always use properly insulated, tripe-core mains cable. Do not modify the mains cable or the power plug. If the insulation is damaged, immediately switch off the power supply and have it repaired. If in doubt, contact a qualified electrician.

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.

CAUTION!

Risk of injury due to heavy weight!

The device is heavy. Lifting and dropping it during transport and installation can cause injuries. Make sure at least two people work together when transporting and installing the device.

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). 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 staining due to plasticiser in rubber feet!

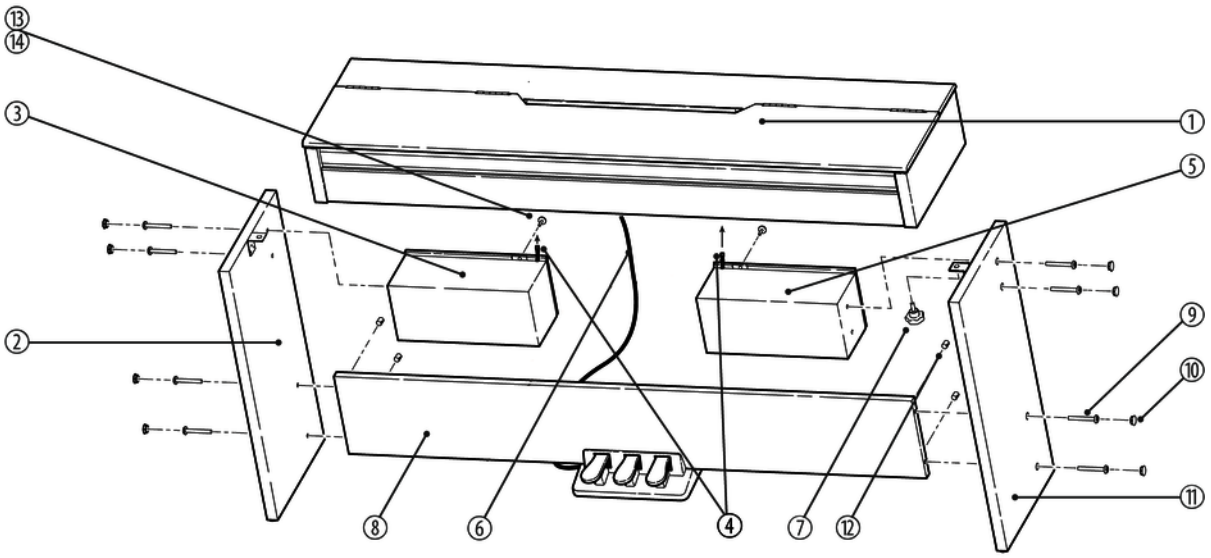
The plasticiser contained in the rubber feet of this product may react with the coating of the floor and cause permanent dark stains after some time. If necessary, use a suitable mat or felt slide to prevent direct contact between the device's rubber feet and the floor.

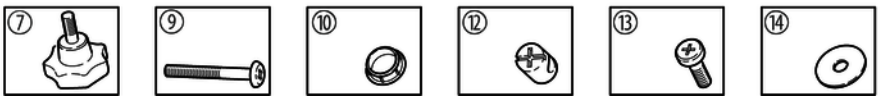
3 Features

The digital piano offers the following features:

- Keyboard: 88 weighted keys with hammer action and adjustable touch response.
- 26 sounds
- 64-voice polyphony
- Reverb
- Chorus
- Split mode
- Metronome
- Transpose function
- Equalizer (3 different timbres)
- Music Library with 60 practise songs
- Speaker: 2 × 15 W
- 3 pedals
- Connections: 2 × headphones out, stereo AUX IN/OUT, USB MIDI 2.0
- Weight: 37 kg
- Dimensions (W × H × D): 1365 × 790 × 330 mm
- Operating system: Windows® 8 and later, Mac OS X® 10.8 and later
- Design: matt black (item no. 326890), matt white (item no. 347195)
- Automatic shutoff

4 Assembly instructions





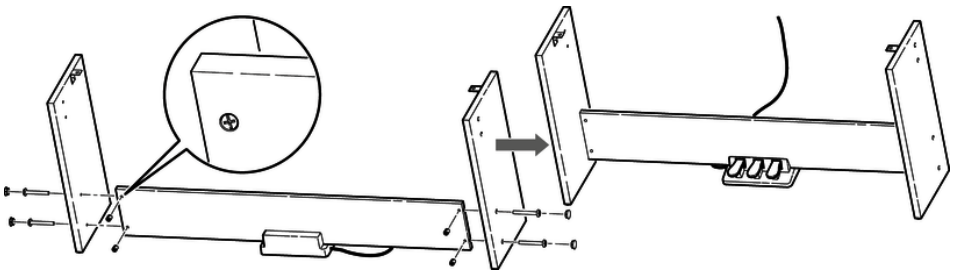
You need a Phillips screwdriver (not supplied) for the assembly of the digital piano. Open the package and please make sure before assembling that the entire scope of delivery is present, as posted here.

1. Digital piano housing	8. Pedal box with rear panel
2. Left side panel	9. Phillips-head screws 6 × 50 (8 pcs.)
3. Left speaker box	10. Screw caps (8 pcs.)
4. Speaker cable	11. Right side panel
5. Right speaker box	12. Phillips-head barrel nuts (4 pcs.)
6. Pedal cable	13. Phillips-head screws 4 × 15 (2 pcs.)
7. Hand screws (2 pcs.)	14. Seals (2 pcs.)

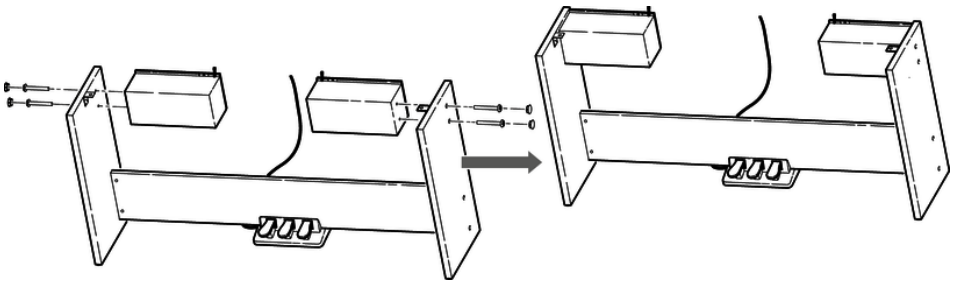
Mechanical assembly

Proceed according to the illustrations and exclusively use the supplied screws. Using other screws could damage the digital piano housing or the speaker boxes or result in a reduced stability of the digital piano.

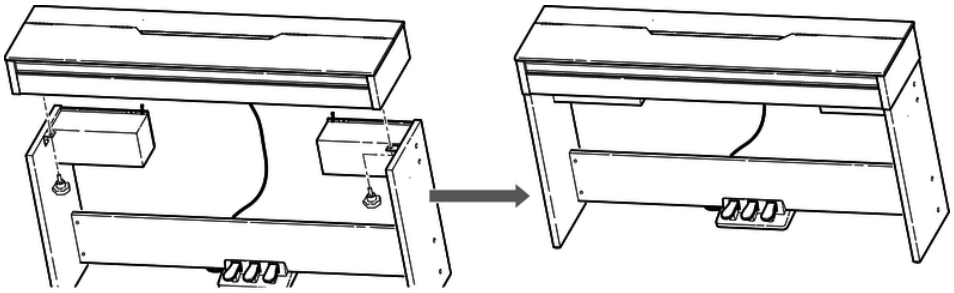
- (7) Hand screws (2 pcs.)
- (9) Phillips-head screws 6 × 50 (8 pcs.) and
- (11) Phillips-head screws 4 × 15 (2 pcs.)



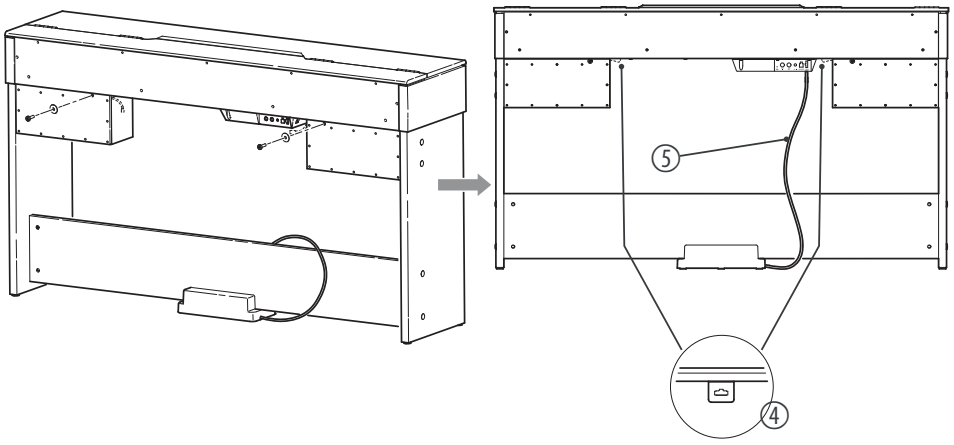
Insert the four Phillips-head barrel nuts (12) into the rear panel of the pedal box as shown in the left part of the figure. Use two screws 6 × 50 on each side to attach the two side panels to the pedal box and cover the four screws with screw caps.



Attach the speakers with each two screws 6 × 50 to the side panels and cover the screws with screw caps.



Put the digital piano housing on the stand and affix it using the two hand screws.



First fix the two speaker boxes with one screw each 4 × 15 and the associated seal on the digital piano housing.

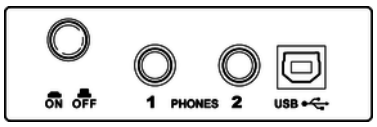
Then connect the speaker cable on the right and left sides with the two connecting sockets at the bottom of the digital piano housing (4).

Note that before connecting the speaker cable, the two speaker boxes must be installed on the digital piano housing. The speaker cables protrude a few centimetres based on the construction from the respective speaker housing!

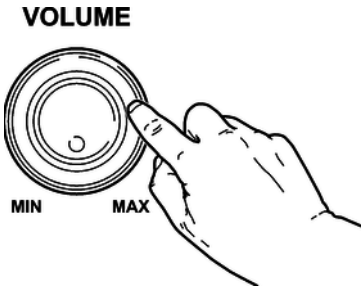
Connect the pedal cable (5) with the *[PEDAL]* connecting socket on the terminal box at the rear of the digital piano housing.

Move the digital piano to its designated location.

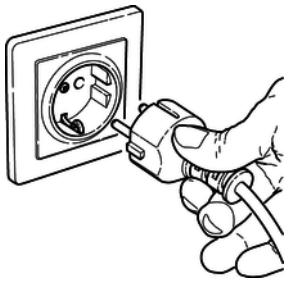
Connecting the power supply



Make sure that the device is turned off before you connect it to the power supply or disconnect it.



Turn the volume knob counter-clockwise to minimum before connecting the digital piano to the power supply or to other devices. This is to protect the speakers from damage.

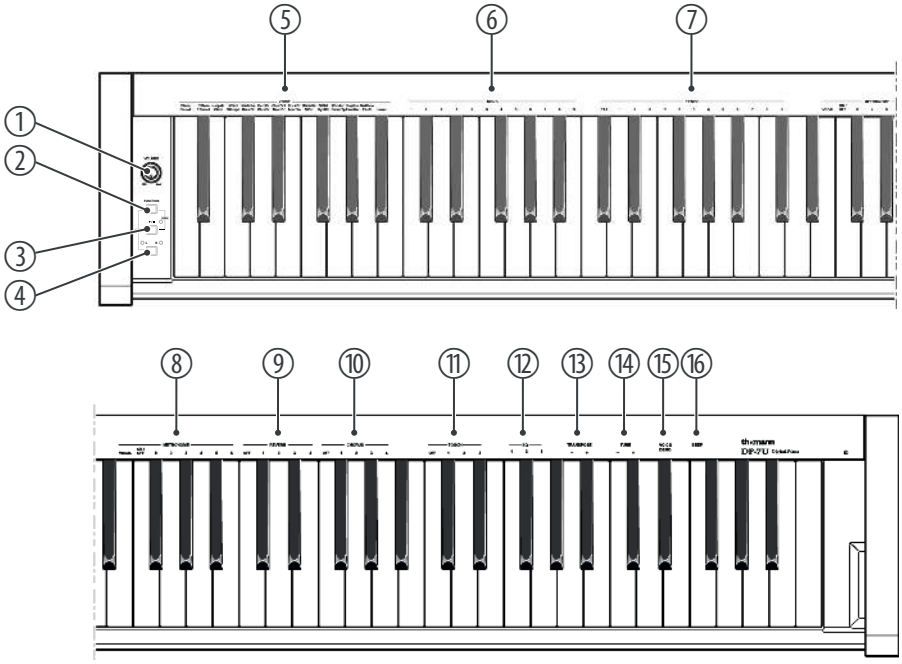


Connect the cable from the power adapter outlet to the input socket *[DC IN]* on the rear panel of the digital piano.

Plug the AC power cord into a properly wired mains wall outlet.

5 Control panel and connections

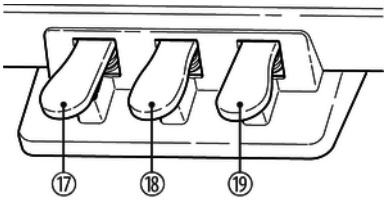
Control panel left and right



1	*[VOLUME]* rotary control for setting the volume.
2	*[FUNCTION]* button. Press and hold this key while you call up a specific function with a piano key.
3	*[START/STOP]* button for playing back practise songs.
4	*[DEMO L – R]* button. In *[SONG]* mode, you can use it to select the left or right hand.
5	*[VOICE]* piano keys for sound selection. Keep the *[FUNCTION]* button pressed and select the desired sound with one of the piano keys.
6	*[SONG]* piano keys for selecting practise songs. Keep the *[FUNCTION]* button pressed and select the desired practise song with the piano keys.
7	*[TEMPO]* piano keys for adjusting the tempo. Keep the *[FUNCTION]* button pressed and select the desired tempo with the piano keys.
8	*[METRONOME]* piano keys for adjusting the metronome and the time signature. Keep the *[FUNCTION]* button pressed and press the *[ON/OFF]* piano key to turn the metronome on or off. Keep the *[FUNCTION]* button pressed and press one of the other piano keys to adjust the time signature.
9	*[REVERB]* piano keys for adjusting the reverb effect and the effects depth. Keep the *[FUNCTION]* button pressed and press the *[OFF]* piano key to turn the reverb effect off. Keep the *[FUNCTION]* button pressed and press one of the other piano keys to adjust the effects depth.
10	*[CHORUS]* piano keys for adjusting the chorus effect and the effects depth. Keep the *[FUNCTION]* button pressed and press the *[OFF]* piano key to turn the chorus effect off. Keep the *[FUNCTION]* button pressed and press one of the other piano keys to adjust the effects depth.
11	*[TOUCH]* piano keys for adjusting the touch sensitivity. Keep the *[FUNCTION]* button pressed and select the desired touch sensitivity with one of the piano keys.

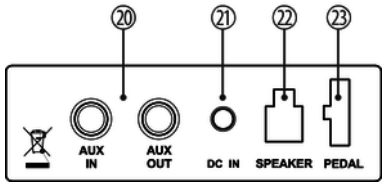
12	*[EQ]* piano keys for adjusting the timbre. Keep the *[FUNCTION]* button pressed and select the desired timbre with one of the piano keys.
13	*[TRANSPOSE]* piano keys for transposing the note values. Keep the *[FUNCTION]* button pressed and transpose the note value by up to 12 semitones up or downwards using the *[+]* or *[–]* piano keys.
14	*[TUNE]* piano keys for fine-tuning the entire keyboard. Keep the *[FUNCTION]* button pressed and tune up or downwards in 2-cent increments using the piano keys *[+]* or *[–]*.
15	*[VOICE DEMO]* piano key. Keep the *[FUNCTION]* button pressed and press the *[VOICE DEMO]* piano key to play the demo song. (see)
16	*[BEEP]* piano key. Keep the *[FUNCTION]* button pressed and press the *[BEEP]* piano key to activate or deactivate the button sound emitted when the function button is pressed.

Pedals



17	Soft pedal | When the soft pedal is pressed, the piano sounds smoother and the overall volume is attenuated.
18	Sostenuto pedal | When the sostenuto pedal is pressed, the currently played notes linger until you release the pedal.
19	Sustain pedal | When the sustain pedal is pressed, all played notes sound longer. This effect simulates the lifting of the damper in an analogue keyboard instrument.

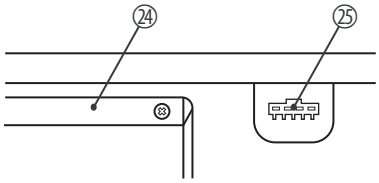
Connections on the back



20	*[AUX IN]* | Connection for external audio devices such as MP3 or CD players to use the internal speakers.
	[AUX OUT] | Output for external audio devices such as active speakers or amplifiers.
21	*[DC IN]* | Connection for the power supply
22	*[SPEAKER]* | Connection for a speaker cable
23	*[PEDAL]* | Connection for a pedal cable

Connecting the speaker cables

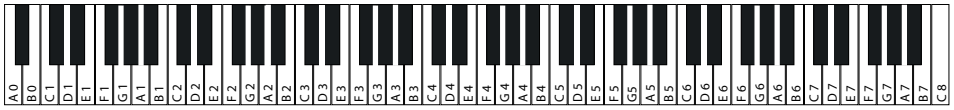
The two connecting plugs for the cables of the speakers are located in the left and right recesses on the underside of the digital piano housing.



24	Connection box
25	Connection plug for the speakers

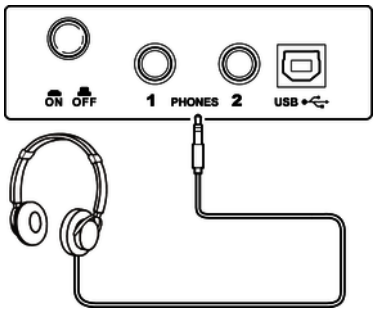
Piano keys

The keyboard keys are referred to in this user manual as shown below.



6 Connection options

Headphones

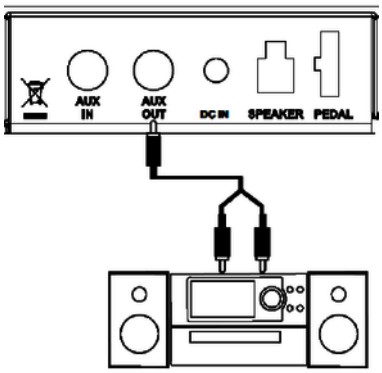


To the left beneath the keyboard you will find headphone outputs 1 and 2.

Connecting headphones (not supplied) to output 2 mutes the speakers.

Using output 1 maintains the sound output through the speakers.

External audio devices via *[AUX OUT]*



Use the *[AUX OUT]* socket to connect the digital piano to an amplifier, stereo system, mixer or recording device. Plug one end of the audio cable into the *[AUX OUT]* socket on the back of the digital piano and the other end into the input of the respective audio device.

NOTICE!

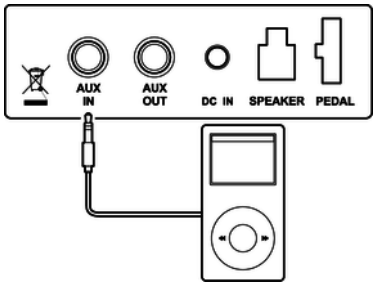
Damage to the speaker due to excessive volume!

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.

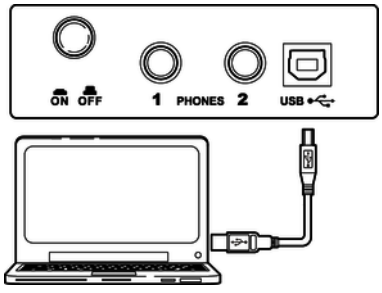
Turn the volume down to “Minimum” before you connect other devices.

External audio devices via *[AUX IN]*



Use the *[AUX IN]* socket to connect e.g. a CD or MP3 player to the digital piano. This enables you to play music on the internal speakers of the digital piano and simultaneously play along to it. Plug one end of the audio cable into the *[AUX IN]* socket on the back of the digital piano and the other end into the output of the respective audio device.

Computer



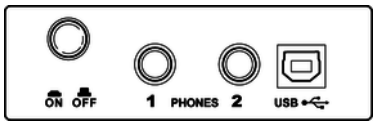
- USB/MIDI interface
  MIDI data are sent and received through the USB/MIDI interface.
- MIDI (via USB)
  MIDI stands for “Musical Instrument Digital Interface” and represents a global standard for the communication of numerous electronic instruments and sound modules.

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

7 Switching on / off and basic operation

7.1 Switching the digital piano on

7.1.1 Normal switching on / off



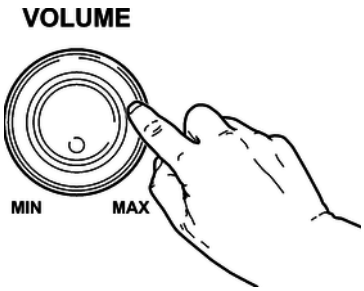
To turn the digital piano on or off, use the *[On / Off]* button located besides the headphones outlet on the bottom side (left) of the keyboard.

7.1.2 Automatic shutoff

If the digital piano is not in use, it shuts off after 30 minutes automatically. To turn it back on, press the On/Off button.

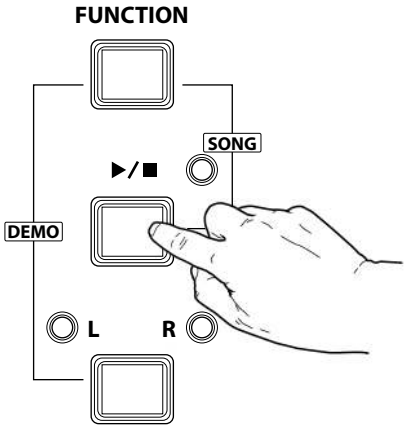
By default, the automatic shutoff function gets initialized when you turn on the unit. To disable the function, keep the first left white key on the keyboard pressed while turning the unit on.

7.2 Adjusting the volume



Adjust the rotary control *[VOLUME]* for a pleasant volume for playback and rehearsal. Turn this control clockwise to increase the volume. Turn it counter-clockwise to reduce the volume.

7.3 Demo song



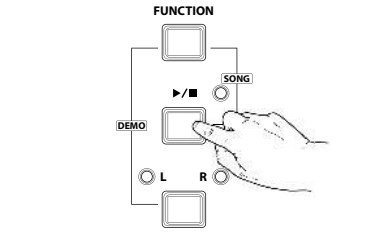
The built-in demo song shows the sound and the pitch range of the instrument.

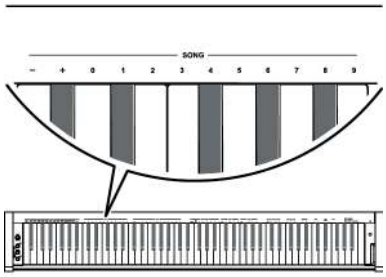
1. Press the button *[START/STOP]* to start the playback of the demo song. At the same time, all the LEDs flash on the control panel. The demo song is playing in an endless loop. Press *[DEMO L – R]* to select separately the left or the right hand.
2. Press the button *[START/STOP]* again to stop playback and exit the current mode.

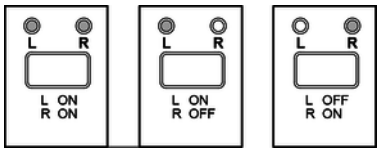
8 Functions

8.1 Practise songs

8.1.1 Selecting, playing and stopping practise songs







In total the digital piano offers 60 practise songs (see *Chapter 9 'Practise and demo songs' on page 24*).

1. Keep the button *[FUNCTION]* pressed and press the *[START/STOP]* button to enter the mode for playing practise songs. All practise songs are played in an endless loop.
2. Press the *[START/STOP]* button to stop the currently playing practise song. This will not exit the *[SONG]* mode for playing practise songs. If you press the *[START/STOP]* button again, this song is repeated in an endless loop until you press the *[START/STOP]* button again.
3. **Selecting a practise song**

   Keep the *[FUNCTION]* button pressed and press the respective piano key in the *[SONG]* area to select the desired practise song.

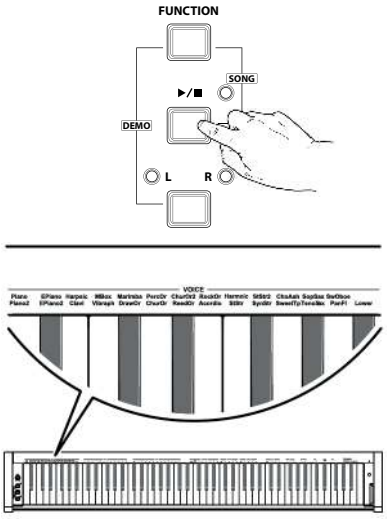
   – *Press the piano keys [+] and [–] simultaneously to select the first practise song.*
   – *To select the practise song with the number buttons, always enter the number in two-digit format. If you want to select the eighth practise song, for example, press the piano keys [0] [8].*

4. **Practising left and/or right hand**

   In *[SONG]* mode, you can repeatedly press the *[L – R]* buttons to select either both tracks of the practise song for playback, or only the left or right track, so that you can practise your hands individually or both together. The setting is indicated by the LEDs.

8.2 Voices and effects

8.2.1 Selecting voices

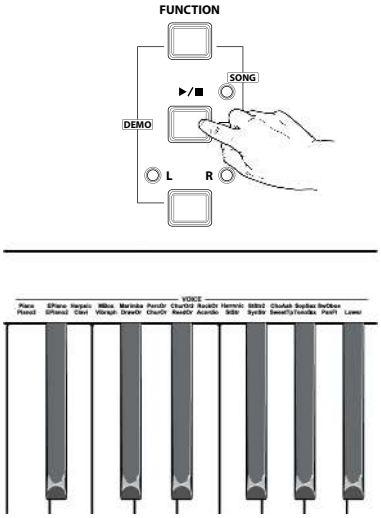


You can access up to 26 voices via the piano keys in the *[VOICE]* area. Each piano key in the *[VOICE]* area is assigned to two voices. With the first keystroke you activate the voice that is given in the first row above the key, with the second keystroke you activate the voice that is specified in the second line above the key.

1. Keep the *[FUNCTION]* button pressed and press the desired piano key in the *[VOICE]* area.
2. To select a different voice, keep the *[FUNCTION]* button pressed and press the desired piano key in the *[VOICE]* area. Depending on whether the previously selected voice is shown in the first or second line above the piano key, the new voice specified in the corresponding line above the piano key is chosen.

When a voice is selected, dual mode and split mode are disabled automatically.

8.2.2 Dual mode

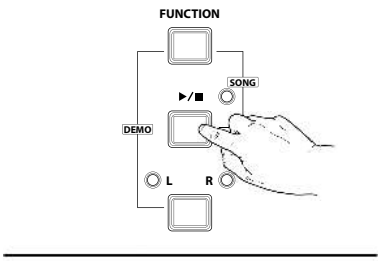


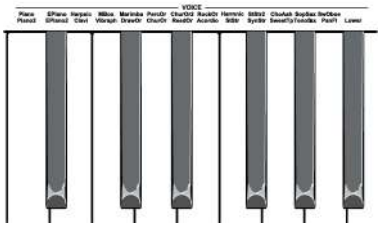
In dual mode you can play two voices simultaneously.

- Keep the *[FUNCTION]* button pressed and press the two desired piano keys in the *[VOICE]* area. Select the first voice with the first piano key and the second voice with the second piano key.

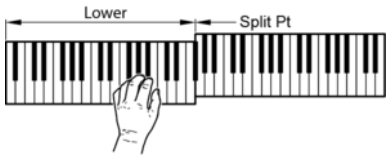
If dual mode is selected, split mode is automatically switched off.

8.2.3 Split mode





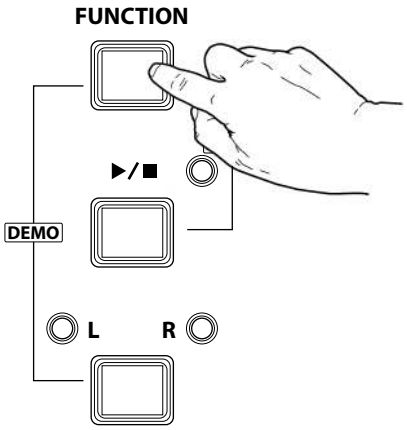
You can use this function to assign different voices to certain keyboard areas.



→ Keep the *[FUNCTION]* button pressed and press the *[Lower]* piano key in the *[VOICE]* area. This splits the keyboard automatically into two areas with different voices. A string voice is assigned to the piano keys in the left section of the keyboard up to and including *[F#3]*.

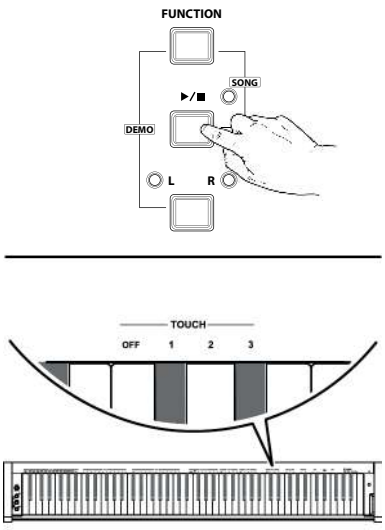
8.2.4 Demo mode

The digital piano offers 26 demos for the individual voices. First, select a voice (see) to play the demo song in this voice.



→ Keep the *[FUNCTION]* button pressed and press the *[VOICE DEMO]* piano key to start the demo for the selected voice. Press this piano key again to exit demo mode.

8.2.5 Touch sensitivity



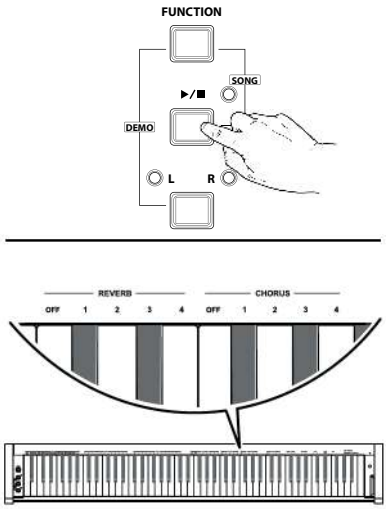
With this function you can adjust the touch response of the keyboard at four different levels.

Parameter	Meaning
[OFF]	Touch sensitivity is off. This can be very useful when playing the organ voice.
[1]	Soft In this setting, the volume is higher than usual even when playing with a soft touch.
[2]	Normal This setting corresponds to the usual touch response of a keyboard.
[3]	Hard In this setting, the volume is lower than usual even when playing with a hard touch.

→ Keep the *[FUNCTION]* button pressed and press one of the piano keys in the *[TOUCH]* area to adjust the touch sensitivity.

8.2.6 Digital effects

8.2.6.1 Reverb and chorus

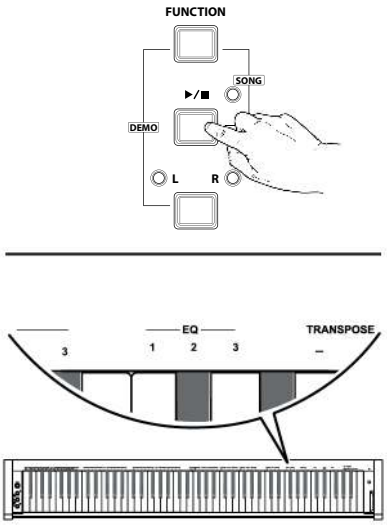


With the reverb and chorus functions you can simulate acoustic effects under different ambient conditions.

→ Keep the *[FUNCTION]* button pressed and press one of the piano keys in the *[REVERB]* or *[CHORUS]* area to adjust the desired effect.

Piano key	in the *[REVERB]* area	in the *[CHORUS]* area
[OFF]	No reverb	No chorus
[1]	Chamber	Slight chorus effect
[2]	Small hall	Medium chorus effect
[3]	Large hall	Strong chorus effect
[4]	Stadium	Flanger effect

8.2.6.2 Equalizer effect

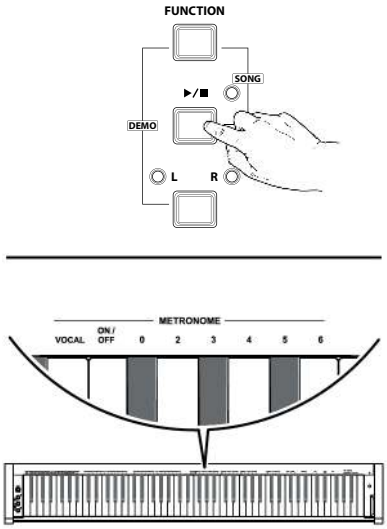


The equalizer function allows three different settings.

Keep the *[FUNCTION]* button pressed and press one of the piano keys in the *[EQ]* area to adjust the desired effect.

Piano key	Equalizer setting
[1]	Standard
[2]	Classical
[3]	Modern

8.2.7 Metronome



1. Turning the metronome on and off

Keep the *[FUNCTION]* button pressed and press the *[ON/OFF]* piano key in the *[METRONOME]* area to turn the metronome on or off.

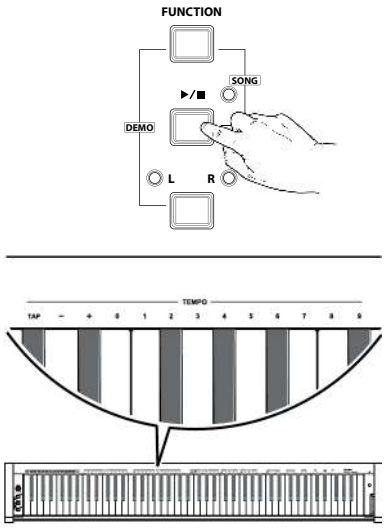
2. Setting the time signature

Keep the *[FUNCTION]* button pressed and press one of the piano keys *[0]*, *[2]*, *[3]*, *[4]*, *[5]*, *[6]* in the *[METRONOME]* area to set the desired time signature.

3. Setting the metronome sound

Keep the *[FUNCTION]* button pressed and press the *[VOCAL]* piano key in the *[METRONOME]* area to set a human voice or the click sound as the metronome sound.

8.2.8 Tempo

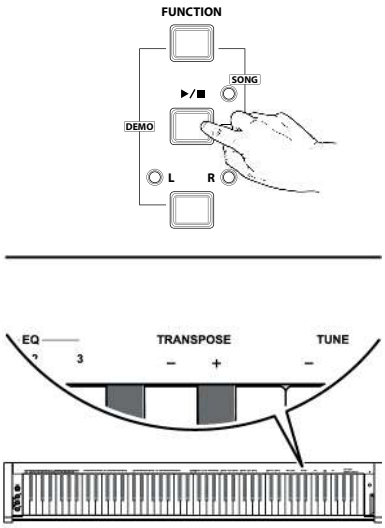


→ Keep the *[FUNCTION]* button pressed and press the respective piano key in the *[TEMPO]* area to set the desired tempo. You can set the tempo by pressing the *[TAP]* piano key twice, or using the piano keys *[+]* and *[–]* or the piano keys *[0]* to *[9]*.

- *If you press the [+] and [–] keys in the [TEMPO] area simultaneously, the tempo is reset to the default standard value (120 beats per minute).*
- *The tempo can be adjusted in a range from 30 to 280 bpm.*
- *If you want to change the tempo with the piano keys [0] to [9], you always have to enter it in three-digit format. For example, to set tempo 85, you have to press the piano keys [0][8][5] in a row in the [TEMPO] area.*

8.2.9 Transposing

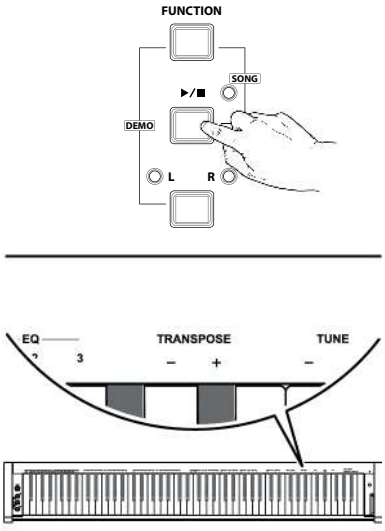
With this function you can adjust the pitch of the keyboard in 12 semitone steps up or down.



→ Keep the *[FUNCTION]* button pressed and press the piano keys *[+]* and *[–]* in the *[TRANSPOSE]* area to adjust the keyboard pitch up or down in semitone steps.

- *Press the [+] and [–] buttons in the [TRANSPOSE] area simultaneously to restore the default setting (no transposition).*

8.2.10 Fine tuning

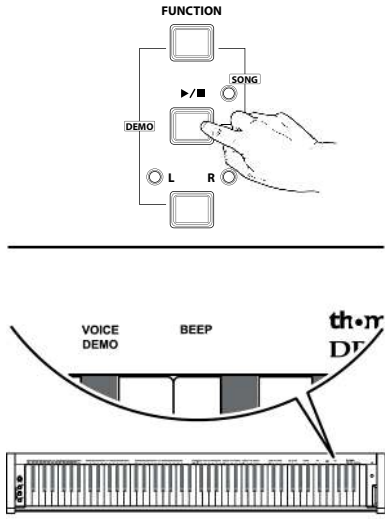


With this function you can fine-tune the entire keyboard in steps of 0.2 Hz.

→ Keep the *[FUNCTION]* button pressed and press the piano keys *[+]* and *[–]* in the *[TUNE]* area to fine-tune the keyboard. The value changes 0.2 Hz per keystroke between –100 and +100 Hz.

– *Press the [+] and [–] buttons in the [TUNE] area simultaneously to restore the default setting (0 Hz).*

8.2.11 Button sound



You can use this function to turn the button sound on or off. By default, the button sound is on. Keep the *[FUNCTION]* button pressed and press the *[BEEP]* piano key to turn the button sound on or off.

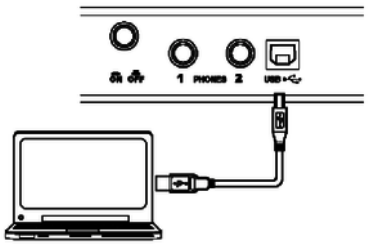
If you keep the *[FUNCTION]* button pressed and turn on the button sound, you will hear a sound every time you press a function button.

8.3 MIDI functions

8.3.1 What is MIDI?

1. MIDI stands for Musical Instrument Digital Interface and represents the standard interface between a computer and electronic instruments.
2. You can use the USB connection to exchange MIDI data with computers or other USB devices that support USB audio via USB cable.
3. The digital piano can be connected to computers or other USB devices.
4. MIDI data from computers or other USB devices can be played back by the sound module of the piano.

8.3.2 USB connection



1. System requirements

- CPU: 300 MHz, Pentium 2 or higher.
- RAM: 64 MB or more.
- 2 MB free hard disc space.
- Operating system: Windows® 8 and later, Mac OS X® 10.8 and later

2. Connecting

Connect the USB port on the back of the digital piano to the USB port on your computer using a standard USB cable (not included).

3. USB precautions

Please heed the following instructions when connecting USB instruments to computers. Otherwise, the instrument or the computer may crash, which can result in data loss. If a crash should occur, turn off computer and instrument and restart them after a few seconds.

– *If the computer is in standby or hibernation, wake the computer before connecting the USB cable.*
– *Establish the USB connection between computer and instrument before turning on the instrument.*

8.3.3 MIDI applications

- The digital piano can control other equipment or electronic instruments.
- You can use other devices to control the digital piano.
- The digital piano can play MIDI files from a computer.

8.4 Troubleshooting

Problem	Possible causes and solutions
You hear a “pop” sound from the speakers when switching the digital piano on and off.	This is normal. No need to worry.
No sound can be heard when playing the piano.	Make sure that the volume control is set appropriately. Check if headphones are plugged into the headphone output 2. Connecting headphones will mute the speakers of the digital piano.
Interference occurs when a mobile phone is used.	Using a mobile phone near the digital piano can cause interference. To prevent this, turn off the mobile phone or use it only at a safe distance.

9 Practise and demo songs

No.	Name	No.	Name
1	Waltz in A Flat Op.39, No.15	31	Mazurka
2	The Happy Farmer	32	Minuet 1
3	Etude	33	Minuet 2
4	Dance Of The Four Swans From "Swan Lake"	34	Minuet 3
5	Carmen Suite No.2 Habanera	35	Minuet In G
6	A Little Polish Dance	36	Neapolitan Song
7	Jesus Saviour Pilot Me	37	Prelude
8	Old Macdonald Had A Farm	38	Salut D' Amour
9	O Sole Mio	39	Pizzicato Polka
10	Wedding March From "Lohengrin"	40	Piano Sonata No.11 in A major KV 331, Andante grazioso
11	2-Part Invention No.13 In A Minor BWV 784	41	Songs Without Words Op30 No. 6 F sharp minor Venetian Gondola Song
12	Turkish March	42	Duke Aria From "The Rigoletto"
13	Italian Polka	43	Burgmuller Op.100 No.15 - Ballade
14	Musette	44	Spinning Song
15	Bourree	45	In The Theatre
16	To A Wild Rose	46	Alfredo and Violetta Column Tower Duet
17	Away In A Manger	47	Come Back To Sorrento
18	Für Elise	48	Piano Sonatina In F Major
19	Marriage Of Figaro	49	Tchaikovsky Waltz
20	Angels We Have Heard On High	50	Military March No.1 In D Major
21	Waltz	51	Als die alte Mutter mich noch lehrte singen
22	America The Beautiful	52	Etude on Leger Lines 1
23	Did You Ever See A Lassie	53	Etude on Leger Lines 2
24	Arabesque	54	At the Ball
25	Old France	55	Dancing Raindrops
26	Santa Claus Is Coming To Town	56	From a Story Book
27	Music Box Dancer	57	Comin' 'Round the Mountain
28	Symphony No.9 In E Minor Largo From "The New World"	58	Song of the Brook
29	Larghetto	59	Puck
30	French Suites	60	Cotton-pickin' Fingers

Tab. 1: Demo song

No.	Name
1	Fantasia

10 Voice list

No.	Name
1	Grand Piano
2	Grand Piano 2
3	Ele. Piano
4	Ele. Piano 2
5	Harpsichord
6	Clavichord
7	Music Box
8	Vibraphone
9	Marimba
10	Drawbar Organ
11	Percussive Organ
12	Church Organ
13	Church Organ 2
14	Reed Organ
15	Rock Organ
16	Accordion
17	Harmonica
18	Stereo Strings
19	Stereo Strings 2
20	Synth Strings
21	Choir Aahs
22	Sweet Trumpet
23	Soprano Sax
24	Tenor Sax
25	Pan Flute
26	Strings

11 MIDI implementation chart

Function		Sent	Received	Notes
Basic Channel	Default	1	ALL	
	Changed	1-16	1-16	
Mode	Default	No	Mode 3	
	Messages	No	Mode 3	
	Altered	********	No	
Note Number		0 – 127	0 – 127	
	True voice	********	0 – 127	
Velocity Note	Note ON	Yes, 9nH, v = 1 – 127	Yes, 9nH, v = 1 – 127	
	Note OFF	No, 9nH, v = 0	Yes, 9nH, v = 0 or 8nH, v = 0 – 127	
After Touch	Keys	No	No	
	Channels	No	No	
Pitch Bend		No	Yes	
Control Change	0	Yes	Yes	Bank Select
	1	No	Yes	Modulation
	5	No	Yes	Portamento Time
	6	Yes	Yes	Data Entry
	7	Yes	Yes	Volume
	10	No	Yes	Pan
	11	No	Yes	Expression
	64	Yes	Yes	Sustain Pedal
	65	No	Yes	Portamento ON/OFF
	66	Yes	Yes	Sostenuto Pedal
	67	Yes	Yes	Soft Pedal
	80	No	Yes	Reverb Program
	81	No	Yes	Chorus Program
	91	Yes	Yes	Reverb Level
	93	Yes	Yes	Chorus Level
	120	No	Yes	All Sound Off
	121	No	Yes	Reset All Controllers
	123	Yes	Yes	All Notes Off
Program Change	True #	Yes ********	Yes 0 – 127	
System Exclusive		No	Yes	
System Common	Song Position Pointer	No	No	

Function		Sent	Received	Notes
	Song Select	No	No	
	Tune Request	No	No	
System Real Time	Clock	No	No	
	Commands	No	No	
Aux Messages	Local ON/OFF	No	No	
	ALL Notes OFF	Yes	Yes	
	Active Sensing	Yes	Yes	
	System Reset	No	Yes	

MIDI channel modes

	POLY	MONO
OMNI ON	Mode 1	Mode 2
OMNI OFF	Mode 3	Mode 4

12 Technical specifications

Input connections	Power supply	1 × Input socket for the 15-V power adapter
	AUX IN	1 × 6.35-mm jack socket
	USB port	1 × USB-to-host
Output connections	Headphones	2 × 6.35-mm jack socket
	AUX out	1 × 6.35-mm jack socket
Keyboard	88 weighted keys with hammer action	
	Touch velocity adjustable	
Polyphony	64-voice polyphonic	
Sounds	26	
Effects	Reverb, chorus, equalizer	
Pedals	Soft, sostenuto, sustain	
Pitch adjustment	Transposing	–12…+12
	Fine tuning	100…+100
Functions	Metronome	0, 2…6
	Tempo	30…280
Practise songs	60	
Demo songs	1	
Speakers	2 × 15 W	
Volume	+86 dB max.	
Power supply	External power adapter, 100 - 240 V ~ 50/60 Hz	
Operating voltage	15 V ⎓ / 2500 mA, centre positive	
Operating system	Windows® 8 and later, Mac OS X® 10.8 and later	
Dimensions (W × H × D)	1,365 mm × 790 mm × 330 mm	
Weight	37 kg	
Colour	matt black (item no. 326890), matt white (item no. 347195)	
Ambient conditions	Temperature range	0 °C…40 °C
	Relative humidity	20%…80% (non-condensing)

Further information

Surface	Matt
Wooden keyboard	No
Pressure point simulator	No
Auto accompaniment	No
Display	No
Learning function	No
Bluetooth MIDI	No
MIDI interface	USB
USB-to-device	No
Key cover	included
Ivory-Feel keyboard	No
Number of rhythms	0
Sequencer	No
Bluetooth audio	No
Semi-pedal capable	No
USB-to-host	Yes

13 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" TRS phone plug (stereo, unbalanced)

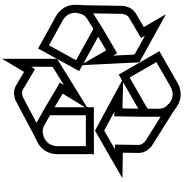
1	Signal (left)
2	Signal (right)
3	Ground

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

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

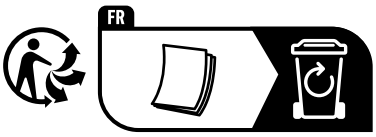
14 Protecting the environment

Disposal of the packing material



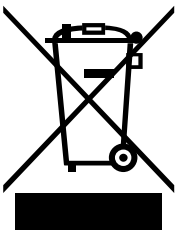
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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.

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