



DP-140B U BK, DP-140WH U, DP-140BP UW

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1 General information



This document contains important instructions for the safe operation of the product. Read and follow the safety instructions and all other instructions. Keep the document for future reference. Make sure that it is available to all those using the product. If you sell the product to another user, be sure that they also receive this document.

Our products and documentation are subject to a process of continuous development. They are therefore subject to change. Please refer to the latest version of the documentation, which is ready for download under www.thomann.de.

1.1 Symbols and signal words

In this section you will find an overview of the meaning of symbols and signal words that are used in this document.

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
WARNING!	This combination of symbol and signal word indicates a possible dangerous situation that can result in death or serious injury if it is not avoided.
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 as knobs) that children could play with.



DANGER!

Danger to life due to electric current!

A short circuit could lead to a fire hazard and risk of death. Do not modify the mains cable or the plug! In case of isolation damage, disconnect immediately the power supply and arrange repair. If in doubt, seek advice from 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 if the device will not be used for a longer period.

**NOTICE!****Possible staining due to plasticiser in rubber feet!**

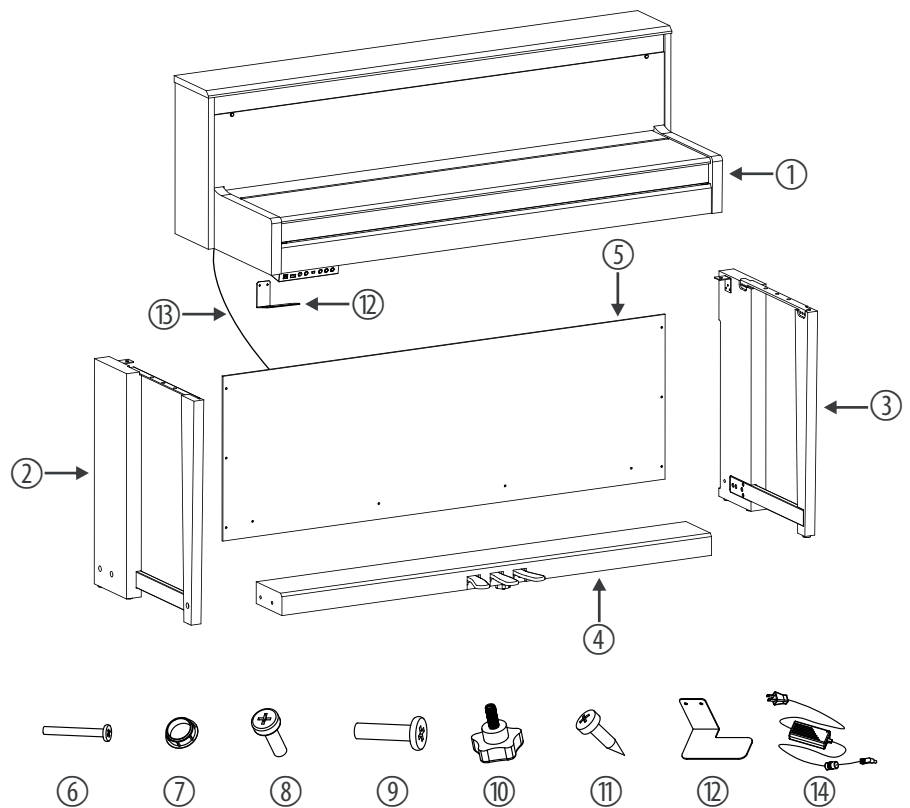
The plasticiser contained in the rubber feet of this product may react with the coating of the floor and cause permanent dark stains after some time. If necessary, use a suitable mat or felt slide to prevent direct contact between the device's rubber feet and the floor.

3 Features

The digital piano is characterized by the following features:

- 88 weighted keys with hammer action and Tri sensor (item no. 516817, item no. 533288)
- 88 weighted wooden keys with hammer action and Tri sensor (item no. 568943)
- Touch velocity, adjustable in six levels
- User-friendly controls and indicators
- 256-voice polyphony
- 90 songs
- 40 voices, 128 GM voices, 8 GM drum kits
- Record and playback function
- Sequencer function
- Metronome
- Reverb and chorus effects
- Vocal effects
- Dual and split mode
- TWINOVA mode
- Transpose function
- Master EQ
- Connections: USB-MIDI, USB-to-device, headphones, Aux IN / OUT, microphone, pedal box
- Loudspeaker load capacity: 2×30 watt + 2×20 watt
- Automatic shutoff, can be deactivated
- Operating system: Windows® 8 and newer, Mac OS X® 10.8 and newer

4 Assembly instructions

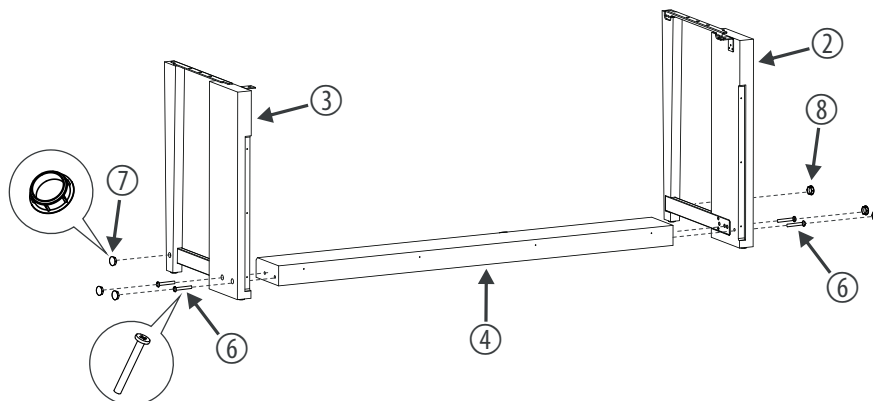


You need a Phillips screwdriver (not supplied) for the assembly of the digital piano. Open the package and make sure before assembling that the entire scope of delivery is present, as posted here.

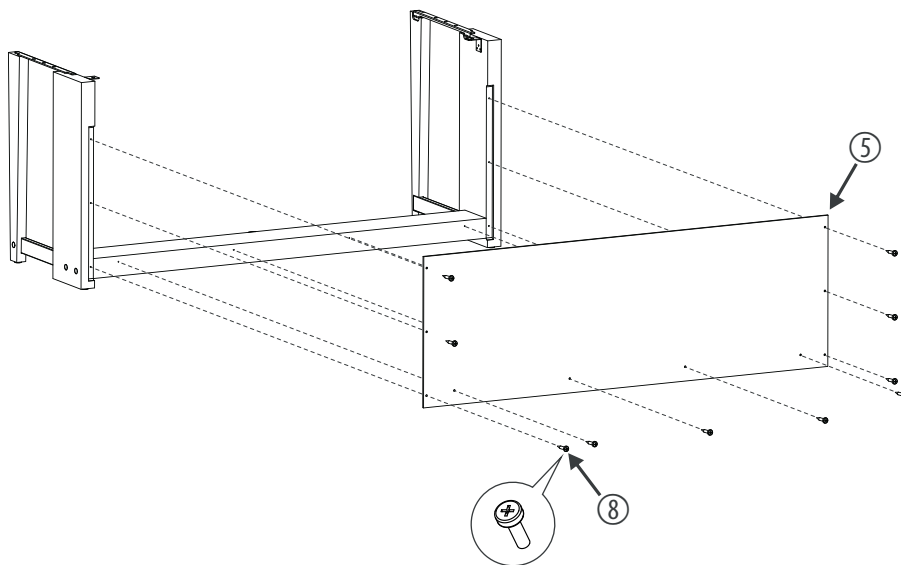
1	Digital piano housing
2	Left side panel
3	Right side panel
4	Pedal box
5	Back panel
6	4 x screws M6 x 40
7	6 x plastic caps
8	10 x screws 4 x 15PA
9	6 x screws 6 x 18BM
10	2 x hand screws
11	2 x screws 3 x 8BM
12	Headphones halter
13	Pedal cable
14	Power cord

Mechanical assembly

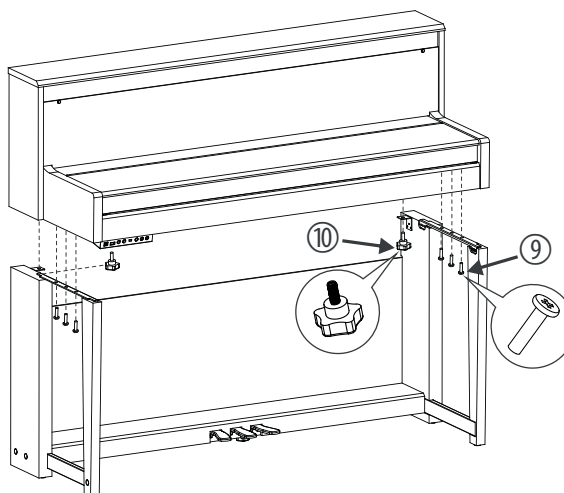
1. ➤ Set up the digital piano near a power wall outlet.
2. ➤ Proceed according to the illustrations and only use the supplied screws. Using other screws could damage the piano housing or result in a reduced stability of the piano.



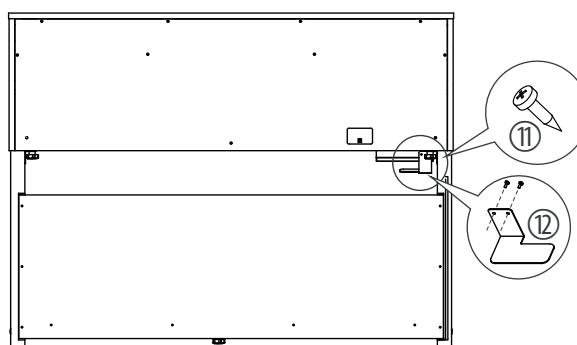
3. ➤ Put the pedal box (4) between the left (2) and right (3) side panel and use two screws M6 × 40 (6) on each side to affix both side panels to the pedal box.
Attach the six plastic caps (7).



4. ➤ Fasten the rear panel (5) to the pedal box and the side panels with ten screws 4 × 15PA (8).

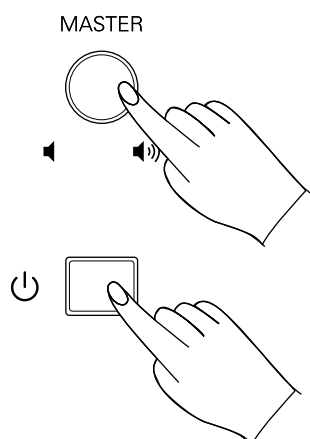



5. Place the digital piano case (1) on the frame and fasten it with six screws 6 x 18BM (9) and the two thumbscrews (10) to the side panels.



6. Fasten the headphone holder (12) with two screws 3 x 8BM (11) on the underside of the digital piano housing.
7. Insert the DIN plug of the pedal cable (13) into the provided socket on the bottom side of the digital piano housing. Insert the mains plug (14) into the provided socket on the rear panel of the digital piano housing. Fix the cables to the base and move the digital piano to the desired position.

Mains connection



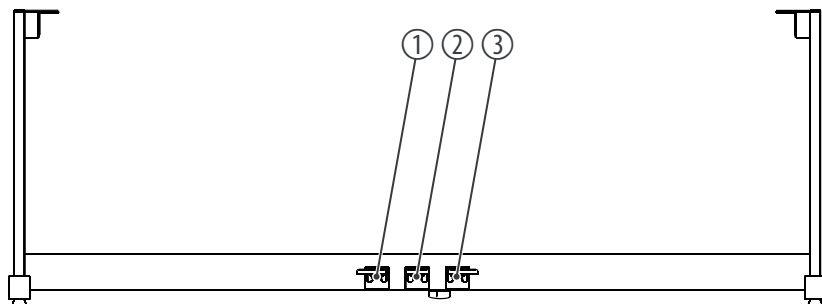
1. Make sure that the device is turned off before you connect it to the power supply or disconnect it.
2. Turn the volume control to minimum (🔊).
3. Plug the power cord into a 230 V AC outlet.
4. Press  to turn the digital piano on.
⇒ The display shows 'Loading.....'.



If the digital piano is not in use or when a thunderstorm with danger of lightning threatens, disconnect the device from its mains power for safety.

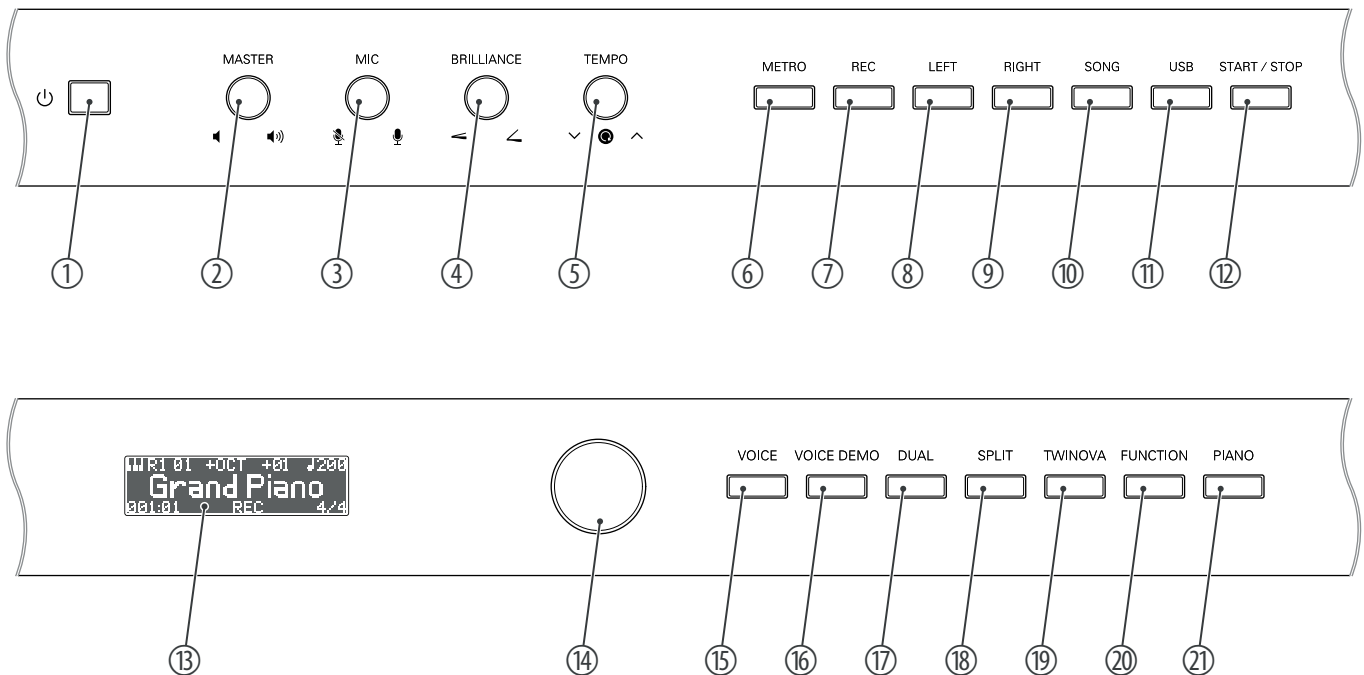
Loading
.....

Pedals



1	Soft pedal
2	Sostenuto pedal
3	Sustain pedal

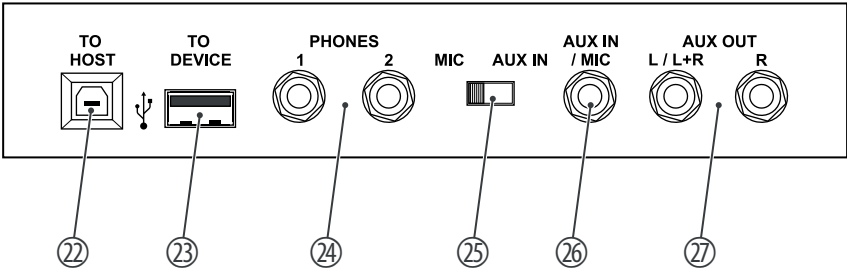
5 Connections and controls



1	main switch. Turns the device on and off.
2	[MASTER] rotary control to adjust the overall volume
3	[MIC] rotary control to adjust the microphone volume
4	[BRILLIANCE] rotary control to adjust the tone colour
5	[TEMPO] rotary control for adjusting the tempo Press the rotary control to reset the tempo to the default setting.
6	[METRO] button to activate / deactivate the metronome.
7	[REC] button to call up the Recording mode
8	[LEFT] button to enable / disable the left hand chord area during song playback
9	[RIGHT] button to enable / disable the right hand chord area during song playback
10	[SONG] button to call up the song mode
11	[USB] button for calling up the USB menu
12	[START / STOP] button for starting / ending a song or recording
13	Display
14	Rotary control for setting and selecting values and data sets
15	[VOICE] button to call up the Voice mode If dual or split mode is activated, press the button to switch between parts 'L', 'R1' and 'R2'.
16	[VOICE DEMO] button for calling up the Voice Demo function
17	[DUAL] button to activate / deactivate the dual mode
18	[SPLIT] button to activate / deactivate the split mode
19	[TWINOVA] button to activate / deactivate the TWINOVA function

20	[FUNCTION] button to call up the Function menu Hold down the button to enter the system settings.
21	Button to activate / deactivate the Piano mode

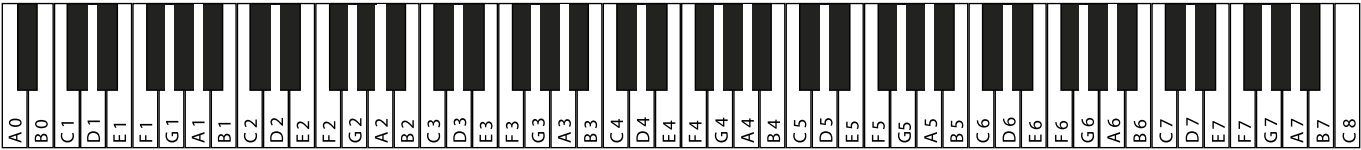
Connections



22	[TO HOST] USB-to-host interface for connecting the keyboard to a computer (MIDI data)
23	[TO DEVICE] USB interface for connecting a USB flash drive (USB stick)
24	[PHONES 1 / 2] signal output sockets for connecting a headset, designed as ¼" jack socket
25	[MIC / AUX IN] slide switch for selecting the sensitivity of the input socket [AUX IN / MIC] Move the switch to [MIC] to connect a microphone. Move the switch to [AUX IN] to connect an external audio device, such as a MP3 player.
26	[AUX IN / MIC IN] input socket for connecting external audio devices such as MP3 players or a microphone, designed as a ¼" jack socket The signal of the connected external audio device is reproduced via the built-in loudspeakers of the digital piano.
27	[AUX OUT] output sockets for connecting to an amplifier, stereo system, mixer or recording device, designed as ¼" phone jacks Connect both channels (R and L / Mono) for stereo transmission. Only connect channel (L) for mono transmission.

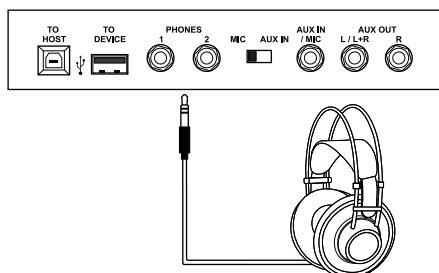
Piano keys

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



6 Connection options

Headphones



Use the *[PHONES 1]* and *[PHONES 2]* sockets to connect two headphones.

Connecting headphones (not supplied) mutes the speakers.



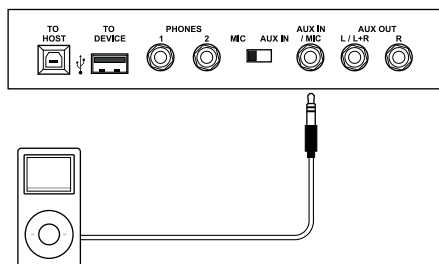
WARNING!

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 and microphone via AUX IN



Use the *[AUX IN]* socket to connect, for example, a CD or MP3 player or a microphone to the device. This allows you to play back music or vocals through the internal speakers of the digital piano and simultaneously play along. Plug one end of the audio cable into the *[AUX IN]* socket of the digital piano and the other end into the output of the respective audio device.

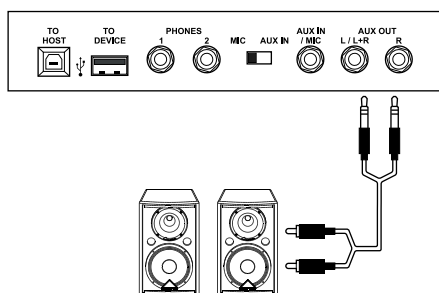
Move the slide switch for selecting the sensitivity to *[MIC]* to connect a microphone. Move the slide switch to *[AUX IN]* to connect an external audio device, for example an MP3 player.



NOTICE!

To prevent damage to the speakers, turn the volume down to “Minimum” before you connect a microphone to the keyboard. Disconnect the microphone from the keyboard when it is not in use.

External audio devices via AUX OUT



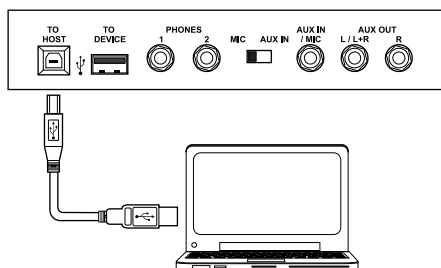
Use the *[AUX OUT]* socket to connect the digital piano to an amplifier, stereo device, mixing console or recording device. Connect both channels (R and L / L+R) for stereo transmission. Only connect one channel (L) for mono transmission. Plug the other end of the cable into the input of the relevant audio device.



NOTICE!

To prevent damage to the speakers, turn the volume down to “Minimum” before you connect other devices to the digital piano.

Computer via USB-MIDI



You can connect the keyboard to a PC for data exchange via the USB-to-Host interface.



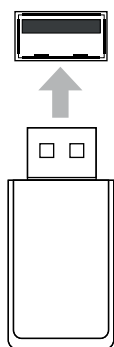
Use an up-to-date operating system still supported by the provider to avoid technical difficulties.



NOTICE!

Do not define the USB-to-Host interface as the input and output at the same time in the computer software. Otherwise, there will be overlap when the digital piano is played.

USB port



The digital piano detects USB flash drives (USB stick) in the FAT 32 format that are not partitioned. The digital piano supports USB flash drives (USB stick) between 2 GB and 128 GB in size.

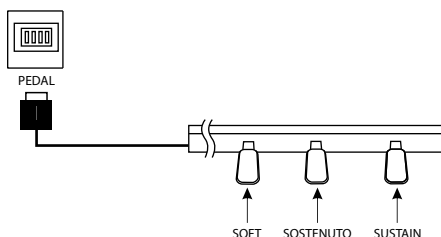
The digital piano can play MP3 and SMF MIDI files saved in the root directory. Recorded songs are also saved to the root directory. We recommend formatting the USB flash drive (USB stick) before using the digital piano.



NOTICE!

Please note that the USB flash drive (USB stick) must not be removed from the digital piano while data is being saved, read or transferred or the USB flash drive (USB stick) is being formatted, otherwise the USB flash drive (USB stick) might be damaged.

Pedals



Connect the pedal box to the provided connector on the bottom of the digital piano housing.

Pedal functions:

Soft pedal

The soft pedal makes the piano sound smoother and attenuates the overall volume.

Sostenuto pedal

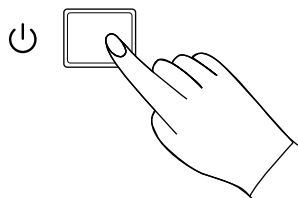
When the Sostenuto pedal is pressed, the currently played notes linger until you release the pedal.



Sustain pedal

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

7 Operating

7.1 Turning the digital piano on and off



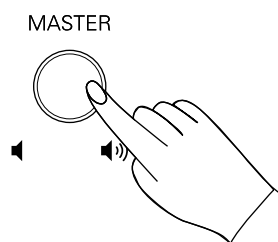
1. ➤ Press  to turn the digital piano on.
⇒ The display shows 'Loading.....'.
2. ➤ Press  to turn the digital piano off.



To prevent damage to the speakers, turn the volume down to 'Minimum' (◀) before you switch the digital piano on.

If the display keeps blank when you turn the digital piano on, check the power supply.

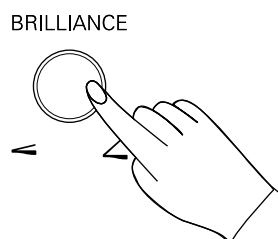
7.2 Adjusting the volume



Use the rotary control [MASTER] to set a comfortable volume for playing and practising.

1. ➤ Turn the rotary control [MASTER] clockwise to increase the volume.
2. ➤ Turn the rotary control [MASTER] counterclockwise to reduce the volume.

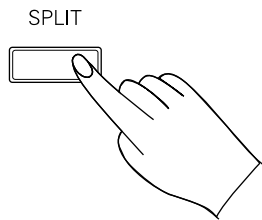
7.3 Setting the tone colour



Use the rotary control [BRILLIANCE] to set the sound character of the digital piano.

1. ➤ Turn the rotary control [BRILLIANCE] clockwise to adjust the treble for the entire keyboard.
2. ➤ Turn the rotary control [BRILLIANCE] counterclockwise to adjust the bass for the entire keyboard.

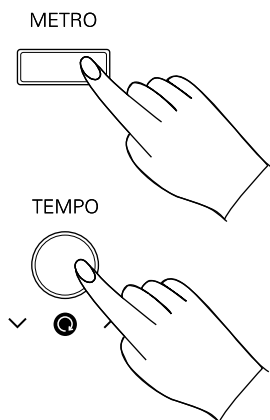
7.4 Split point setting



Using this function you can select a point to split the whole claviature into two areas. The preset split point is on piano key [F#3].

1. ➤ Hold down [SPLIT] and press a desired piano key that you want to be the split point.
 2. ➤ Release [SPLIT].
- ⇒ The split point has been set.

7.5 Metronome



1. ➤ **Switch on metronome**
Press [METRO] to turn the metronome on or off.
⇒ The metronome beat can be heard.
2. ➤ **Setting the tempo**
While the metronome is playing, set the desired tempo in a range between '30 bpm' and '280 bpm'.
3. ➤ Turn the rotary control [TEMPO] clockwise to increase the tempo.
4. ➤ Turn the rotary control [TEMPO] counterclockwise to reduce the tempo.
5. ➤ Hold down the rotary control [TEMPO] to reset the tempo to the default setting.
6. ➤ **Tempo marking**
Hold down the rotary control [TEMPO] and release it when the display shows 'Tempo Marking'.
⇒ In this mode you can see the corresponding marking of the current tempo setting so that you can change the tempo to a specific, defined marking.
7. ➤ **Setting the time signature**
Set the time signature of the metronome in the function menu as described under ↗ Chapter 7.8.5 'Metronome time signature' on page 27.



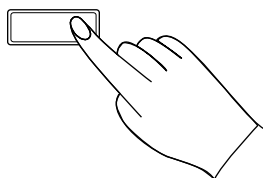
If you turn on the metronome during recording, the metronome beat will not be recorded.

7.6 Voices

7.6.1 Selecting voices

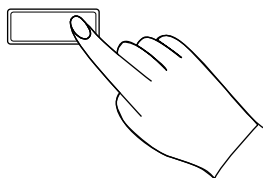
The digital piano offers 40 voices. This allows you to play a voice with your right hand.

VOICE



1. ➤ Press **[VOICE]** to enable the Voice mode.
⇒ The display shows the name and number of the first right hand voice (main voice Voice R1).
2. ➤ Use the rotary control to select a desired voice (see [Chapter 10 'Voice list' on page 35](#)).

VOICE DEMO

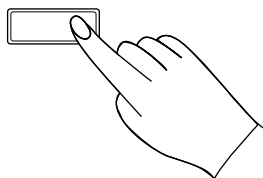


3. ➤ Press **[VOICE DEMO]** to play the selected voice as a demo.

In dual and split mode, you can switch between the first and second voice of the right hand (Voice R1, Voice R2) and the voice of the left hand (Voice L) by repeatedly pressing the **[VOICE]** button. The display shows the selected voice.

7.6.2 Dual mode

DUAL



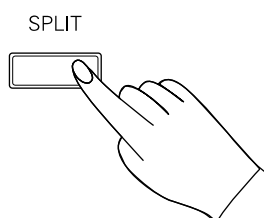
In Dual mode, you can play two voices simultaneously.

1. ➤ First select the first right-hand voice (Voice R1) as described under [Chapter 7.6.1 'Selecting voices' on page 19](#).
2. ➤ Press **[DUAL]** to switch to Dual mode and activate the second right hand voice (Voice R2).
3. ➤ Use the rotary control to select a desired voice that you want to assign to the second voice of the right hand (Voice R2).
⇒ The currently set voices appear in the display. If you now press a key, both voices sound simultaneously.
4. ➤ To change the combination of voices, press repeatedly **[VOICE]** to toggle between the first and second right hand voices. Then use the rotary control to select the desired voice.
5. ➤ Press **[DUAL]** again to exit the Dual mode.

7.6.3 Split mode

With Split mode, you can assign different voices to certain keyboard areas. The preset split point is on piano key [F#3].

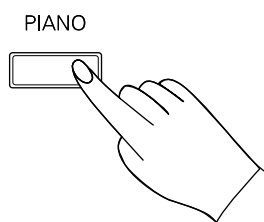
1. ➤ If desired, individually specify the split point as described under [Chapter 7.4 'Split point setting'](#) on page 18.
2. ➤ Assign the right hand voice as described under [Chapter 7.6.2 'Dual mode'](#) on page 19.
3. ➤ Press [SPLIT] to activate the split mode.
4. ➤ Use the rotary control to select a desired voice that you want to assign to the area to the left (Voice L) of the split point.
5. ➤ To change the combination of voices, press repeatedly [VOICE] to toggle between the first and second right hand voices. Then use the rotary control to select the desired voice.
 - ⇒ The currently set voices appear in the display. If you now press a key, both voices sound simultaneously.
6. ➤ Press [SPLIT] again to end the split mode.



7.6.4 Piano mode

You can use the Piano mode to simulate playing an acoustic piano.

1. ➤ Press [PIANO] to activate the piano mode.
2. ➤ Press [VOICE] to disable the piano mode.



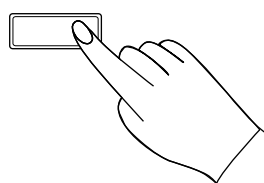
Dual and Split mode are not available in piano mode.

7.6.5 TWINOVA

In TWINOVA mode, the keyboard is divided into two areas with the same voice and the same pitch to enable 4-handed playing, for example in class. The preset split point is on piano key [F#4].

If desired, individually specify the split point as described under [Chapter 7.4 'Split point setting'](#) on page 18.

TWINOVA



1. Enabling TWINOVA

Press [TWINOVA] to activate the TWINOVA mode.

⇒ The display shows 'Twinova' and the set split point.

2. Setting Octave

If desired, adjust the octave range as described under [Chapter 7.8.2 'Octave shift'](#) on page 26.

3. In addition to the preset split point [F#4], you can also move the split point to [E3]. Press [SPLIT] or [TWINOVA] to move.

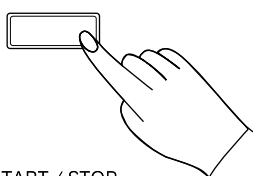
4. Press [VOICE] to disable the TWINOVA mode.

7.7 Songs

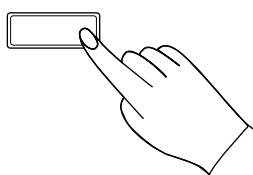
7.7.1 Playing songs

The digital piano offers a choice of 90 songs to accompany your playing at performances, while practising and recording.

SONG

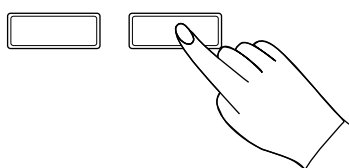


START / STOP



LEFT

RIGHT



1. Press [SONG] to activate the song mode.

⇒ The display shows the number of the selected song.

2. Use the rotary control to select a desired song (see [Chapter 11 'Song list'](#) on page 36). The user song, if any, is displayed after the preset songs.

3. Press [START / STOP] to start song playback.

4. If desired, press [LEFT] or [RIGHT] to mute the left-hand or right-hand chord section during song playback for practice purposes and play along with this part yourself.

⇒ The display shows 'L-OFF' or 'R-OFF'.

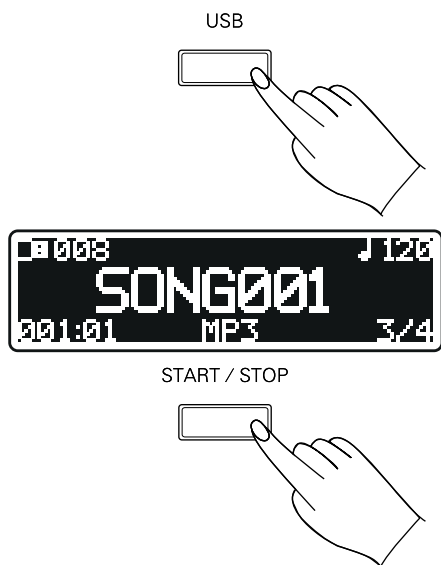
5. Press [LEFT] or [RIGHT] again to unmute.

6. Press [START / STOP] again to stop song playback.

7. Press [SONG] to disable the song mode.

7.7.2 Playing songs off a USB flash drive

The digital piano detects USB flash drives (USB stick) in the FAT 32 format that are not partitioned. The digital piano supports USB flash drives (USB stick) between 2 GB and 128 GB in size.



1. ➤ Connect a USB flash drive (USB stick) to the USB port [TO DEVICE].
2. ➤ Press [USB] to call up the root directory of the USB flash drive.
⇒ The display shows the names of the MP3 or SMF MIDI files.
3. ➤ Use the rotary control to select a desired song.
4. ➤ Press [START / STOP] to start song playback.
5. ➤ Press [START / STOP] again to stop song playback.
6. ➤ Press [SONG] to disable the song mode.

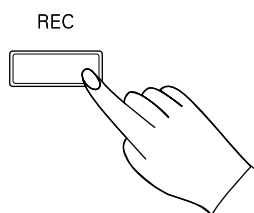


You can play a single song or all songs once or in an endless loop. The playback mode can be changed in the function menu as described under Chapter 7.8.11 'Song playback' on page 29.

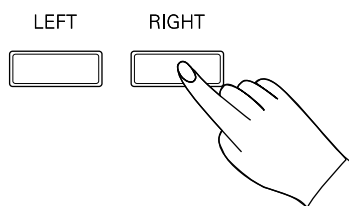
7.7.3 Recording songs

7.7.3.1 Simple recording

The digital piano has powerful real-time recording capabilities. Record your playing and save it to internal memory as a user song or save it to a USB flash drive (USB stick).

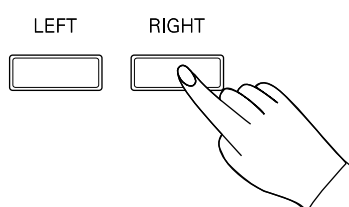
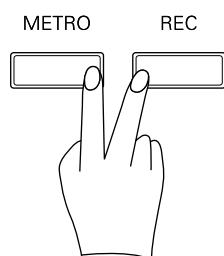


1. ➤ To save the recording on a USB flash drive (USB stick), connect a USB flash drive (USB stick) to the USB interface [TO DEVICE].
⇒ The recording is automatically saved in the root directory of the USB flash drive (USB stick).
2. ➤ If no USB flash drive (USB stick) is connected to the USB interface [TO DEVICE], the recording will be saved in the internal memory of the digital piano.
3. ➤ Press [REC] to call up the recording menu.
⇒ If you have selected the digital piano's internal memory as the storage location, the display shows 'Overwrite User Song?'.

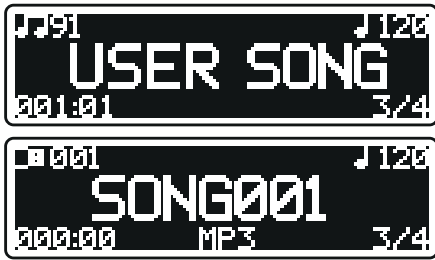


4. ➤ Press [LEFT] (NO) to stop the recording.
5. ➤ Press [RIGHT] (YES) to overwrite the existing user song.
⇒ 'REC' is flashing in the display.
6. ➤ Press [START / STOP] or play the keyboard to start recording.
7. ➤ Press [START / STOP] or [REC] again to stop recording.
⇒ The recording will be saved to the selected location for the user song. The display shows the memory location.
8. ➤ Press [START / STOP] to play the recording.

7.7.3.2 Recording a song with accompaniment



1. ➤ To save the recording on a USB flash drive (USB stick), connect a USB flash drive (USB stick) to the USB interface [TO DEVICE].
⇒ The recording is automatically saved in the root directory of the USB flash drive (USB stick).
2. ➤ If no USB flash drive (USB stick) is connected to the USB interface [TO DEVICE], the recording will be saved in the internal memory of the digital piano.
3. ➤ As described under Chapter 7.7.1 'Playing songs' on page 21, select a song that you want to play along with.
4. ➤ Simultaneously press [REC] and [METRO] to call up the recording menu.
⇒ If you have selected the digital piano's internal memory as the storage location, the display shows 'Overwrite User Song?'.
5. ➤ Press [LEFT] (NO) to stop the recording.
6. ➤ Press [RIGHT] (YES) to overwrite the existing user song.
⇒ 'REC' is flashing in the display.
7. ➤ Press [START / STOP] or play the keyboard to start recording.
8. ➤ If desired, press [LEFT] or [RIGHT] to mute the left-hand or right-hand chord section during the recording and play along with this part yourself.
⇒ The display shows 'L-OFF' or 'R-OFF'.
9. ➤ Press [LEFT] or [RIGHT] again to unmute.



- 10.** ➤ Press *[START / STOP]* or *[REC]* again to stop recording.
⇒ The recording will be saved to the selected location for the user song. The display shows the memory location.
- 11.** ➤ Press *[START / STOP]* to play the recording.



When the full storage capacity is reached, the recording is automatically ended and the display shows 'USB flash drive is full!'. The recorded data will be saved in the selected memory location.

7.8 Function menu

This menu is used to set the various parameters offered by the digital piano.

- 1.** ➤ Press *[FUNCTION]* to call up the functions menu.
⇒ The display shows 'OCTAVE R1' each time it is called up.
- 2.** ➤ Press repeatedly *[FUNCTION]* to select a desired parameter that you want to change.

Alternatively, hold down *[FUNCTION]* and use the rotary control to select a desired parameter that you want to change.
- 3.** ➤ Use the rotary control to change the desired parameter.

The following table shows the adjustable options and parameters:

No.	Option	LCD	Control range
1	Transposing	'TRANSPOSE'	-12 to +12
2	Octave shift Voice R1	'OCTAVE R1'	-1 to +1
3	Octave shift Voice R2	'OCTAVE R2'	-1 to +1
4	Octave shift Voice L	'OCTAVE L'	-1 to +1
5	Touch velocity	'TOUCH'	Hard 2, Hard 1, Normal, Soft 1, Soft 2, Flat
6	Voice R1 volume	'VOLUME R1'	0 to 32
7	Voice R2 volume	'VOLUME R2'	0 to 32
8	Voice L volume	'VOLUME L'	0 to 32
9	Song volume	'VOLUME MUSIC'	0 to 32
10	Time signature metronome	'METRONOME'	2/2, 0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4, 3/8, 6/8, 9/8, 12/8
11	Equalizer	'SPEAKER EQ'	Piano, Classical Jazz, Pop, Rock, R&B
12	String resonance	'STRING RES.'	0 to 32
13	Reverb effect	'REVERB TYPE'	Room 1, Room 2, Room 3, Hall 1, Hall 2, Hall 3, Hall 4, Church, My Garage, Piano Hall
14	Reverb effect depth	'REVERB LEVEL'	0 to 32
15	Chorus effect	'CHORUS TYPE'	Chorus 1, Chorus 2, Chorus 3, Chorus 4, GM Cho.1, GM Cho.2, Celeste 1, Celeste 2, Symphonic 1, Symphonic 2, Delay 1, Delay 2
16	Chorus effect depth	'CHORUS LEVEL'	0 to 32
17	Vocal effect	'MIC FX TYPE'	Echo, Pan, Stereo, Doubler, Distortion, Lo-Fi, Enhancer, Pitch Up, Pitch Down
18	Vocal effect depth	'MIC FX LEVEL'	0 to 32
19	Song playback	'SONG LOOP'	Single, All, Off
20	Keyboard Local ON / OFF	'LOCAL'	ON, OFF

7.8.1 Transposing



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

1. ➤ Press repeatedly *[FUNCTION]* and select 'TRANSPOSE'.
Alternatively, hold down *[FUNCTION]* and use the rotary control to select 'TRANSPOSE'.
2. ➤ Use the rotary control to adjust the pitch in semitone steps.

7.8.2 Octave shift



With this function you can shift the octaves of the Voice R1, Voice R2 and Voice L parts up and down one octave independently of each other.

1. ➤ Press repeatedly [FUNCTION] and select 'OCTAVE R1', 'OCTAVE R2' or 'OCTAVE L' for the desired part you want to octave.

Alternatively, hold down [FUNCTION] and use the rotary control to select 'OCTAVE R1', 'OCTAVE R2' or 'OCTAVE L'.

2. ➤ Use the rotary control to move the octave of the selected part up or down.

7.8.3 Touch velocity



With this function you can adjust the touch velocity of the keyboard in six different levels.

1. ➤ Press repeatedly [FUNCTION] and select 'TOUCH'.

Alternatively, hold down [FUNCTION] and use the rotary control to select 'TOUCH'.

2. ➤ Use the rotary control to select one of the six possible settings, as shown in the following table:

Parameter	Meaning
1	Hard 2 In this setting, the volume is lower than usual even when playing with a hard touch.
2	Hard 1 In this setting, the volume is slightly lower than usual even when playing with a hard touch.
3	Normal Setting that corresponds to the usual response behaviour of a Claviature .
4	Soft 1 In this setting, the volume is slightly higher than usual even when playing with a soft touch.
5	Soft 2 In this setting, the volume is higher than usual even when playing with a soft touch.
6	Flat Touch sensitivity is off. This can be very recommendable when playing the organ voice.



The set velocity is automatically saved when the digital piano is switched off.

7.8.4 Volume

TOUCH	
VOLUME R1	▶ 31
VOLUME R2	

TOUCH	
VOLUME MUSIC	▶ 025
METRONOME	

With this function you can adjust the volume of the Voice R1, Voice R2 and Voice L parts as well as the volume of the songs being played.

1. ➤ Press repeatedly [FUNCTION] and select 'VOLUME R1', 'VOLUME R2', 'VOLUME L' or 'VOLUME MUSIC'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'VOLUME R1', 'VOLUME R2', 'VOLUME L' or 'VOLUME MUSIC'.
2. ➤ Use the rotary control to set the desired volume for the selected part between '0' (muted) and '32' (maximum).

7.8.5 Metronome time signature

VOLUME SONG	3/4
METRONOME	▶ 4/4
SPEAKER EQ	5/4

This function allows you to set the time signature of the metronome.

1. ➤ Press repeatedly [FUNCTION] and select 'METRONOME'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'METRONOME'.
2. ➤ Set the desired time signature with the rotary control.



If the time signature of a song or a MIDI file differs from your setting, the time signature adapts to the song being played.

7.8.6 Equalizer

METRONOME	
SPEAKER EQ	▶ Piano
STRING RES.	Classical

A total of five different preset effects are available for the loudspeakers.

1. ➤ Press repeatedly [FUNCTION] and select 'SPEAKER EQ'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'SPEAKER EQ'.
2. ➤ Use the rotary control to enable one of the five effects 'Piano', 'Classical Jazz', 'Pop', 'Rock' or 'R&B'.



The equalizer effects only affect the speakers of the digital piano. They do not affect the outputs [PHONES 1/2] and [AUX OUT] and the USB interface during recording.

7.8.7 String resonance

SPEAKER EQ	
STRING RES.	▶ 19
REVERB TYPE	

This function simulates the resonance effects taking place in an acoustic piano.

1. ➤ Press repeatedly [FUNCTION] and select 'STRING RES.'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'STRING RES.'.
2. ➤ Use the rotary control to set the desired string resonance between '0' and '32'.



The set string resonance is automatically saved when the digital piano is switched off.

7.8.8 Reverb effect

7.8.8.1 Selecting reverb effect

STRING RES.	Hall 2
REVERB TYPE ▶	Hall 3
REVERB LEVEL	Hall 4

The Reverb effect lets you simulate the acoustic effects of different environmental conditions.

1. ▶ Press repeatedly [FUNCTION] and select 'REVERB TYPE'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'REVERB TYPE'.
2. ▶ Use the rotary control to select a desired effect.

7.8.8.2 Reverb effect depth

REVERB TYPE	
REVERB LEVEL ▶	6
CHORUS TYPE	

1. ▶ Press repeatedly [FUNCTION] and select 'REVERB LEVEL'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'REVERB LEVEL'.
2. ▶ Use the rotary control to set the desired reverb effects depth between '0' and '32'.

7.8.9 Chorus effect

7.8.9.1 Selecting chorus effect

REVERB LEVEL	Chorus1
CHORUS TYPE ▶	Chorus2
CHORUS LEVEL	Chorus3

The Chorus effect lets you simulate the acoustic effects of different environmental conditions.

1. ▶ Press repeatedly [FUNCTION] and select 'CHORUS TYPE'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'CHORUS TYPE'.
2. ▶ Use the rotary control to select a desired effect.

7.8.9.2 Chorus effect depth

CHORUS TYPE	
CHORUS LEVEL ▶	0
MICFX TYPE	

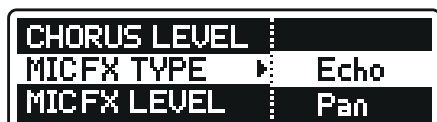
1. ▶ Press repeatedly [FUNCTION] and select 'CHORUS LEVEL'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'CHORUS LEVEL'.
2. ▶ Use the rotary control to set the desired chorus effects depth between '0' and '32'.

7.8.10 Vocal effect

7.8.10.1 Selecting vocal effect

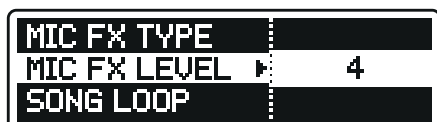
You can use the vocal effect to add acoustic effects to your singing.

Connect a microphone to the connector socket [AUX IN / MIC IN] and set the slide switch [MIC / AUX IN] to [MIC].



1. Press repeatedly [FUNCTION] and select 'MIC FX TYPE'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'MIC FX TYPE'.
2. Use the rotary control to select a desired effect.

7.8.10.2 Vocal effect depth



1. Press repeatedly [FUNCTION] and select 'MIC FX LEVEL'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'MIC FX LEVEL'.
2. Use the rotary control to set the desired vocal effects depth between '0' and '32'.



The settings for reverb, chorus and vocal effects are automatically saved when the digital piano is switched off.

7.8.11 Song playback

The songs can be played in three different modes.



1. Press repeatedly [FUNCTION] and select 'SONG LOOP'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'SONG LOOP'.
2. Use the rotary control to set the desired playback mode 'Single' (selected song in continuous loop), 'All' (all songs in continuous loop) or 'Off' (continuous loop disabled).




The set playback mode is automatically saved when the digital piano is switched off.

7.8.12 Keyboard Local ON / OFF



1. Press repeatedly [FUNCTION] and select 'LOCAL'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'LOCAL'.

2. ➤ Use the rotary control to select 'ON'.
⇒ The internal sound generator is triggered and MIDI data is output via the [TO HOST] output.
3. ➤ Use the rotary control to select 'OFF'.
⇒ The internal sound generator is not triggered. The MIDI data is only sent via the [TO HOST] output.



Make sure all external devices are properly connected.

7.8.13 System settings

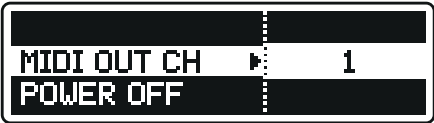
1. ➤ Hold down [FUNCTION] to call up the system settings.
2. ➤ Press repeatedly [FUNCTION] to select a desired parameter that you want to change.

Alternatively, hold down [FUNCTION] and use the rotary control to select a desired parameter that you want to change.
3. ➤ Use the rotary control to change the desired parameter.

The following table shows the adjustable options and parameters:

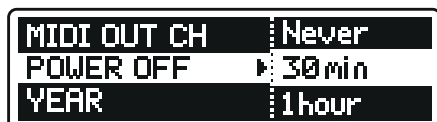
No.	Option	LCD	Control range
1	MIDI receive channel	'MIDI OUT CH'	1 to 16
2	Automatic shutoff	'POWER OFF'	Never, 30 Min, 1 hour
3	System date: Year	'YEAR'	2015 to 2100
4	System date: Month	'MONTH'	Jan. to Dec.
5	System date Day	'DAY'	1 to 31
6	System date Hour	'HOUR'	0 to 23
7	System date: Minute	'MINUTE'	0 to 59
8	Factory defaults	'SYSTEM RESET'	No, Execute

7.8.13.1 MIDI channels



1. ➤ Press repeatedly [FUNCTION] and select 'MIDI OUT CH'.
Alternatively, hold down [FUNCTION] and use the rotary control to select 'MIDI OUT CH'.
2. ➤ Use the rotary control to set the MIDI channel for the Part Voice R1 between '1' and '16'.

7.8.13.2 Automatic shutoff

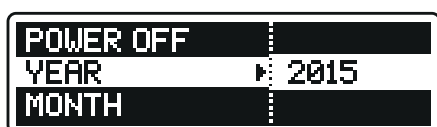


When the digital piano is not in use, it shuts off after 30 minutes automatically. To turn it back on again, press ϕ .

You can deactivate the automatic switch-off or set the desired time for the digital piano to switch off automatically (30 minutes, 60 minutes).

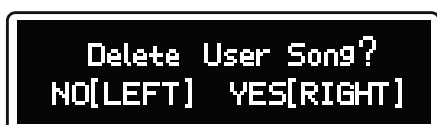
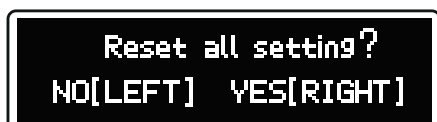
1. ➤ Press repeatedly *[FUNCTION]* and select 'POWER OFF'.
Alternatively, hold down *[FUNCTION]* and use the rotary control to select 'POWER OFF'.
2. ➤ Use the rotary control to set the time when the digital piano switches off or deactivate the automatic switch-off (Never).

7.8.13.3 Date and time



1. ➤ Press repeatedly *[FUNCTION]* and select 'YEAR', 'MONTH', 'DAY', 'HOUR' or 'MINUTE'.
Alternatively, hold down *[FUNCTION]* and use the rotary control to select 'YEAR', 'MONTH', 'DAY', 'HOUR' or 'MINUTE'.
2. ➤ Use the rotary control to set the value for each parameter.

7.8.13.4 Factory defaults



1. ➤ Press repeatedly *[FUNCTION]* and select 'SYSTEM RESET'.
Alternatively, hold down *[FUNCTION]* and use the rotary control to select 'SYSTEM RESET'.
2. ➤ **Resetting the system settings**
Use the rotary control to select 'Execute'.
⇒ The display shows 'Reset all setting?'.
3. ➤ Press *[LEFT]* (NO) to cancel the process.
4. ➤ Press *[RIGHT]* (YES) to reset the device to factory default settings.
5. ➤ **Resetting the user song**
After resetting the system to the factory settings, the display shows 'Delete User Song?'.
6. ➤ Press *[LEFT]* (NO) to cancel the process.
7. ➤ Press *[RIGHT]* (YES) to delete the user song.
8. ➤ After a successful reset, the display shows 'System Reset Success!'.



Do not switch off the digital piano during the factory reset. Internal data and the digital piano can be damaged.

After resetting to the factory default settings, all personal settings and the user song are irrevocably deleted and cannot be restored.

8 Technical specifications

Input connections	AUX IN / Microphone	1 × 6.35 mm jack socket
	Power supply	1 × Input socket for the 15-V power adapter
Output connections	Headphones	2 × 6.35 mm jack socket
	AUX out	1 × 6.35 mm jack socket
	USB MIDI	1 × to-Host interface
	USB-to-Device	1 × USB type A
Keyboard	88 weighted keys with hammer action and tri-sensor (item no. 516817, item no. 533288)	
	88 weighted wooden keys with hammer action and Tri sensor (item no. 568943)	
	Touch velocity adjustable	
Polyphony	256-voice polyphonic	
Voices	40	
Songs	90	
Effects	Chorus, Reverb, Equalizer, Vocal	
Pedals	Soft, Sostenuto, Sustain	
Pitch adjustment	Transposing	−12 ... +12
	Octaving	−1 ... +1
Functions	Metronome	2/2, 0/4, 2/4, 3/4, 4/4, 5/4, 6/4, 7/4, 8/4, 9/4, 3/8, 6/8, 9/8, 12/8
	Tempo	30 ... 280
Memory	1 × memory slot for user recordings	
Speaker	2 × 30 W, 2 × 20 W	
Volume	+87 dB max.	
Power supply	External power adapter, 100 - 240 V ~ 50/60 Hz	
Operating voltage	15 V $\overleftrightarrow{\text{DC}}$, centre positive	
Operating system	Windows® 8 and newer, Mac OS X® 10.8 and newer	
Dimensions (W × H × D)	1,407 mm × 1,062 mm × 505 mm	
Weight	52 kg	
Colour	Matt black (item no. 516817), matt white (item no. 533288), polished black (item no. 568943)	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Further information

Wooden keyboard	no (item no. 516817, item no. 533288)
	yes (item no. 568943)
Ivory-Feel keyboard	yes
Auto accompaniment	No
Number of rhythms	0

9 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 reason for concern.
No sound can be heard when playing the piano.	<p>Make sure that the volume control is set appropriately.</p> <p>The volume of the individual parts Voice R1, Voice R2 and Voice L may be set too low. Set the volume to an appropriate level.</p> <p>Check if headphones are plugged into the headphone output 2. Connecting headphones will mute the speakers of the digital piano.</p>
Some notes on the keyboard sound wrong.	Set the transposition and octave shift to '0'.
Interference occurs when using a cell phone.	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.

10 Voice list

No.	Name	No.	Name
1	Grand Piano	21	Cello
2	Grand Piano/Wide	22	Orchestral Harp
3	Bright Piano	23	String Ensembles 1
4	Electric Grand	24	String Ensembles 2
5	Honky Tonk	25	Choir Aahs
6	Harpsichord	26	Trumpet
7	E.Piano 1	27	Trombone
8	E.Piano 2	28	Tuba
9	Clavi	29	French Horn
10	Drawbar Organ	30	Soprano Sax
11	Percussive Organ	31	Alto Sax
12	Rock Organ	32	Tenor Sax
13	Church Organ	33	Baritone Sax
14	Reed Organ	34	Flute
15	Accordion	35	Pan Flute
16	Tango Accordion	36	Sitar
17	Guitar & Bass 1	37	Banjo
18	Guitar & Bass 2	38	Shamisen
19	Bass & Vibra	39	Koto
20	Violin	40	Bag Pipe

11 Song list

No.	Name	No.	Name
1	The entertainer	31	Robot Doll
2	Rialto Ripples (Rag)	32	Consolation
3	Neapolitan Song	33	2-Part Invention #13 In A Minor.B.W. lli
4	Waltzes	34	Minuet In G Major (BWV Anh. 114)
5	Turkish March	35	Barcarolle
6	Schos Doll's Dance No. 2	36	Norwegian Dance No.2
7	Minuet In D Major	37	Moseta Dance
8	Inquietude	38	The Small Gathering
9	Italian Polka	39	The Return
10	Moment Musical	40	The Wagtail
11	Prelude In C-Sharp Major	41	Bulie Dance
12	The Happy Farmer	42	Tender Blossom
13	The Rag-Time Dance	43	Grace
14	Piano Sonata In C Major, K.330. III	44	Cherish The Memories
15	Mazurka	45	Chopsticks
16	Prelude In E Major	46	Four Little Swans
17	Piano Sonata In A Major, K.331. I	47	Progress
18	Waltz For Piano In G-Sharp Minor	48	Eclogue
19	Gavotte	49	The Limpid Stream
20	L' Arabesque	50	Brave Cavalier
21	Austria Variation	51	The Chatterbox
22	Schos Doll's Dance No. 7	52	Tarantella
23	To A Wild Rose	53	Frankness
24	Gavotte I	54	Tender Grieving
25	Waltz	55	The Farewell
26	Minuet In G Major (BWV Anh. 116)	56	The Chase
27	Innocence	57	Habanera
28	Tchaikovsky Waltz	58	Prelude In C Major
29	Salut d' Amour	59	Piano Sonata In C Major, K.545.
30	Barcarolle	60	Piano Sonate op.49-2

No.	Name	No.	Name
61	Serenade	76	Prelude e-Moll/E minor BWV938
62	Prelude D-Dur/D major BWV936	77	Prelude G-Dur/G major BWV936
63	Prelude C-Dur/C major BWV924	78	Dove
64	Toys Ragtime	79	Knight
65	Maple leaves Ragtime	80	Ave Maria
66	Chicken pecking Ragtime	81	Prelude G-Dur/G major BWV902a
67	Pretty girl Ragtime	82	Menuett G dur 4
68	Menuett G dur 3	83	The two part inventions 1
69	Perpetuum mobile	84	The two part inventions 2
70	The Nightingale was singing	85	Gavotte
71	Gipsy Rondo	86	The angels singing
72	Fountain	87	Minuet
73	Fur Elise	88	Lyrical Rondo
74	Prelude F-Dur/F major BWV927	89	Swallow
75	Prelude d-Moll/D minor BWV935	90	Minute Waltz

12 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	No	Reverb Program
	81	No	No	Chorus Program
	91	Yes	Yes	Reverb Level
	93	Yes	Yes	Chorus Level
	120	No	Yes	All Sound Off
	121	No	No	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	Yes	No	
	Commands	No	No	
Aux Messages	LOCAL ON/OFF	Yes	Yes	
	Active Sensing	Yes	Yes	
	System Reset	No	Yes	
Notes:				

MIDI channel modes

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

13 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. When disposing of the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste management facility. Proper disposal protects the environment as well as the health of your fellow human beings.

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.

You can return your old device to Thomann GmbH at no charge. Check the current conditions on www.thomann.de.

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

