·H·E·M·I·N·G·W·A·Y·

DP-701 MKII
digital piano

user manual

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Table of contents

1 General information

This manual contains important instructions for the safe operation of the unit. Read and follow the safety instructions and all other instructions. Keep the manual for future reference. Make sure that it is available to all those using the device. If you sell the unit please make sure that the buyer also receives this manual.

Our products are subject to a process of continuous development. Thus, they are subject to change.

1.1 Further information

On our website (*www.thomann.de)* you will find lots of further information and details on the following points:

Download	This manual is also available as PDF file for you to download.
Keyword search	Use the search function in the electronic version to find the topics of interest for you quickly.
Online guides	Our online guides provide detailed information on technical basics and terms.
Personal consultation	For personal consultation please contact our technical hotline.
Service	If you have any problems with the device the customer service will gladly assist you.

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

The letterings for connectors and controls are marked by square brackets and italics.

Examples: *[VOLUME]* control, *[Mono]* button.

Displays

Texts and values displayed on the device are marked by quotation marks and italics.

Examples: *'24ch'* , *'OFF'* .

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Instructions

The individual steps of an instruction are numbered consecutively. The result of a step is indented and highlighted by an arrow.

Example:

1. ▶ Switch on the device.

2. ▶ Press *[Auto]*.

   ⇨ Automatic operation is started.

3. ▶ Switch off the device.

Cross-references

References to other locations in this manual are identified by an arrow and the specified page number. In the electronic version of the manual, you can click the cross-reference to jump to the specified location.

Example: See ↳ *'Cross-references' on page 6*.

1.3 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 manual.

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.
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!**
> **Danger for children**
>
> Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!
>
> Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!
>
> Never let children unattended use electrical devices.

> ⚠ **DANGER!**
> **Electric shock caused by short-circuit**
>
> Do not modify the mains cable or the plug. Failure to do so could result in electric shock/death or fire. If in doubt, seek advice from a registered electrician.

> ⚠ **DANGER!**
> **Electric shock caused by high voltages inside**
>
> 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 if covers, protectors or optical components are missing or damaged.

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CAUTION!

Possible hearing damage

With loudspeakers or headphones connected, the device can produce volume levels that may cause temporary or permanent hearing impairment.

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

Due to the heavy weight of the device, at least two persons are required for transport and installation.

NOTICE!

Operating conditions

This device has been designed for indoor use only. To prevent damage, never expose the device to any liquid or moisture. Avoid direct sunlight, heavy dirt, and strong vibrations.

NOTICE!

External power supply

The device is powered by an external power supply. Before connecting the external power supply, ensure that the input voltage (AC outlet) matches the voltage rating of the device and that the AC outlet is protected by a residual current circuit breaker. Failure to do so could result in damage to the device and possibly the user.

Unplug the external power supply before electrical storms occur and when the device is unused for long periods of time to reduce the risk of electric shock or fire.

3   Features

The digital piano is characterized by the following features:

- 88 weighted keys with hammer action and adjustable touch response
- Blue backlit LCD
- Built-in recorder (MIDI)
- Integrated speaker system
- Retractable keyboard cover
- User-friendly controls and indicators
- 128 voices
- Polyphony: 64-voice
- Recording capacity: 90,000 notes
- Reverb and Chorus effects
- Integrated metronome
- Dual and Split mode
- Built-in memory for user settings and recordings
- Connections: USB, Bluetooth, LINE out, MIDI out, pedalry, 2 × headphones
- 12 V power supply included
- Bluetooth adapter included
- Automatic shutoff

4   Assembly instructions
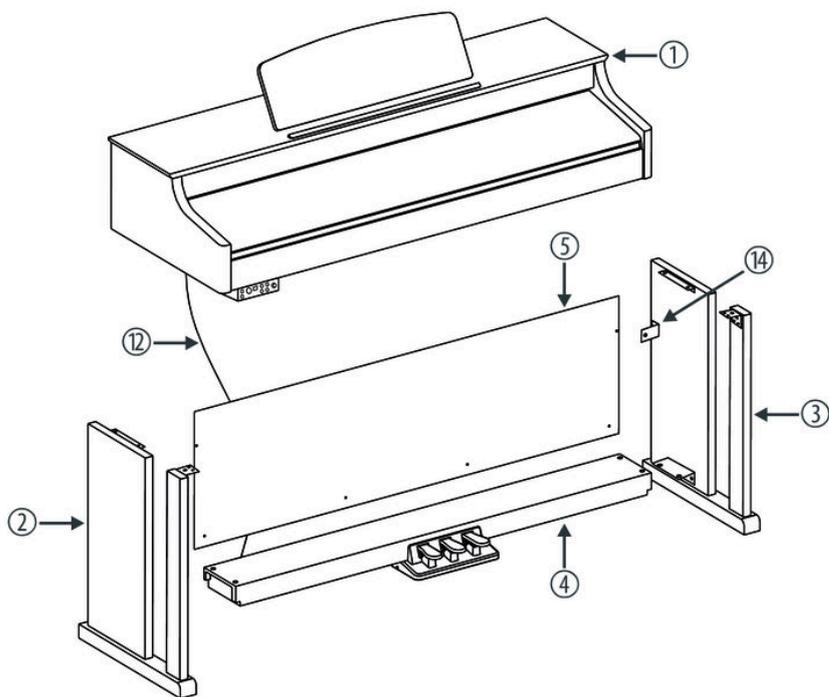
You need a Phillips screwdriver (not supplied) for the assembly of the digital piano. Open the packaging and verify before setting up that the entire delivery is included, as listed below.

1	Digital piano housing with music stand
2	Left leg component
3	Right leg component
4	Foot pedal unit
5	Rear panel skirt
6	6 × Phillips-head screw M6 × 55
7	4 × Phillips-head screw M6 × 25
8	6 × washer Ø 4 mm
9	4 × Phillips-head screw ST3.9 × 20
10	6 × Phillips-head screw M4 × 16
11	6 × Phillips-head screw M6 × 16
12	Pedal cable
13	Power cord

14	2 × mounting bracket
15	2 × Philips-head screw ST2.9 × 12

Mechanical assembly

1. ▶ Set up the digital piano near a power wall outlet.
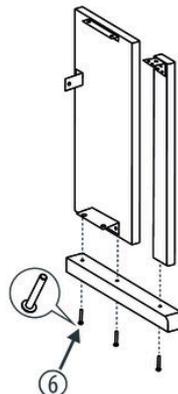
2. ▶ If the side panels are not already premounted, mount first the two side panels each with three screws M6 × 55 per side, as shown in the figure.

3. ▶ Proceed according to the illustrations and only use the supplied Phillips-head screws. Using other screws could damage the piano housing or result in a reduced stability of the piano.
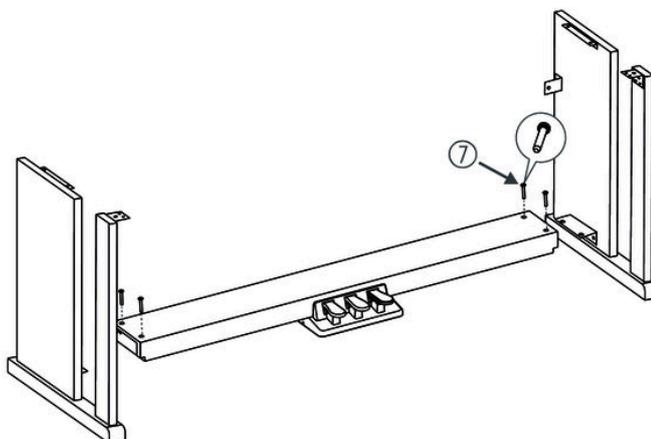
4. ▶ Screw the levelling bolts on the bottom of the pedal box completely in.

Put the pedal box on the angle pieces of the left and right side panel and use two Phillips-head screws M6 × 25 on each side to affix both side panels to the pedal box.

Then turn the levelling screws on the bottom of the pedal box as far out that the pedal box is thus supported evenly over the entire length on the ground.
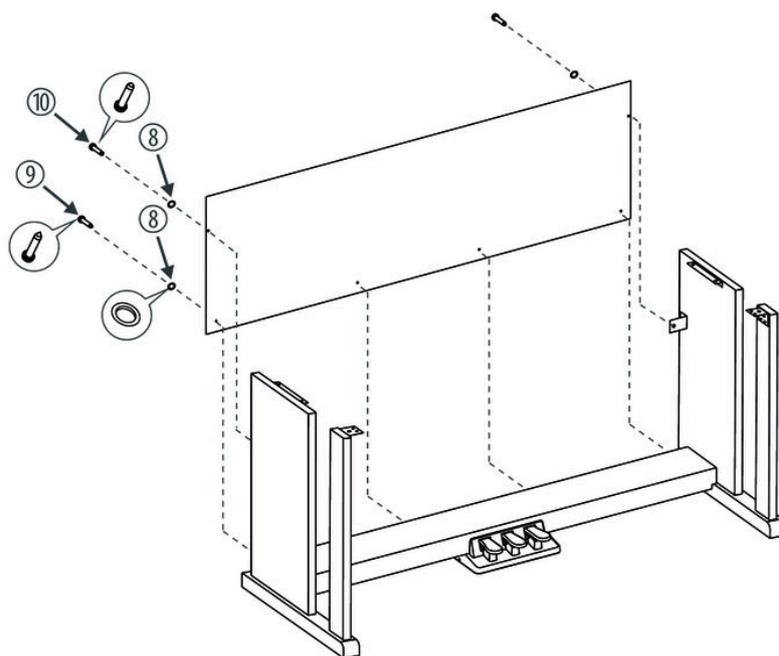
5. ▶ Slide in the rear cover before the small angle pieces and attach the rear cover with two Phillips-head screws M4 × 16 and washer. Now affix the rear cover with four Phillips-head screws ST3.9 × 20 and washer to the pedal box.
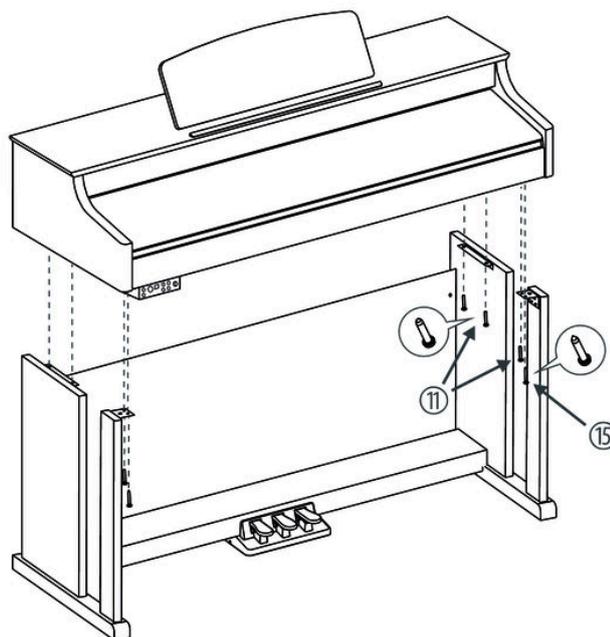
6. ▶ Place the digital piano case on the frame and secure it with six Phillips-head screws M6 × 16 and with two Philips-head screws ST2.9 × 12.
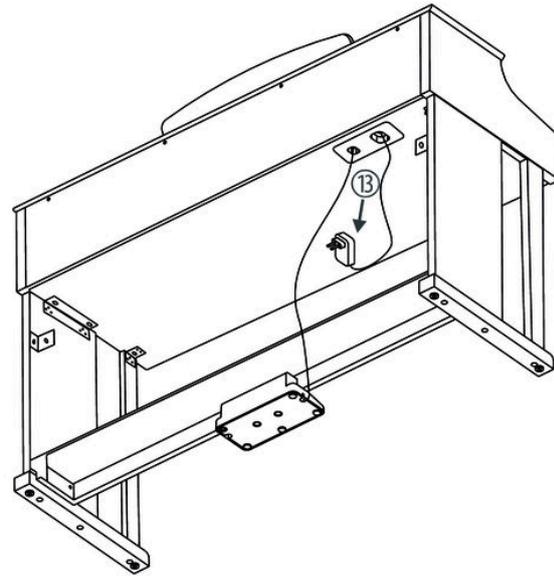
7. ▶ Fasten the cables to the stand. Insert the DIN plug of the pedal cable into the provided socket on the bottom side of the digital piano. Move the digital piano to its designated location.

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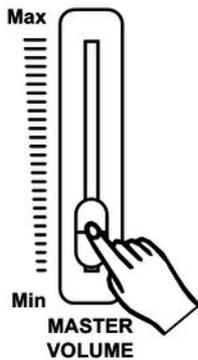
1. ▶ Make sure that the device is turned off before you connect it to the power supply or disconnect it.

2. ▶ Slide the volume control to minimum.
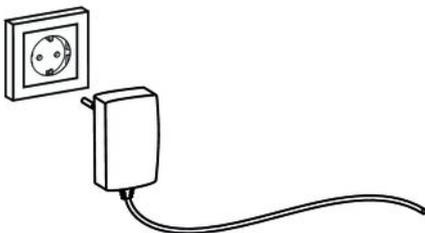
3. ▶ Connect the included power adapter to the 12V connector of the unit and then plug the power adapter into a wall outlet.

4. ▶ Now you can turn on the device.

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

Assembly overview
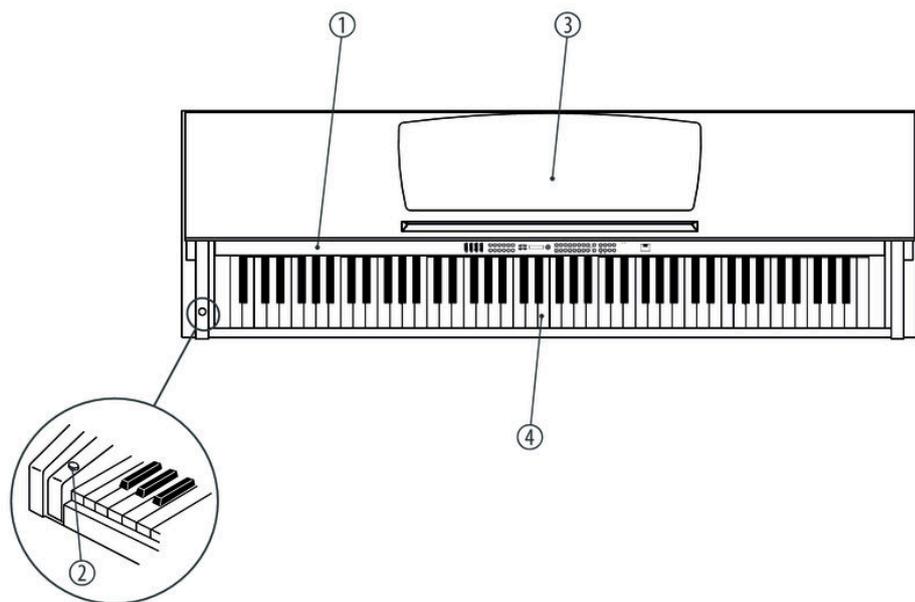
Top view

1	Control panel
2	Main switch
3	Music stand
4	Claviature
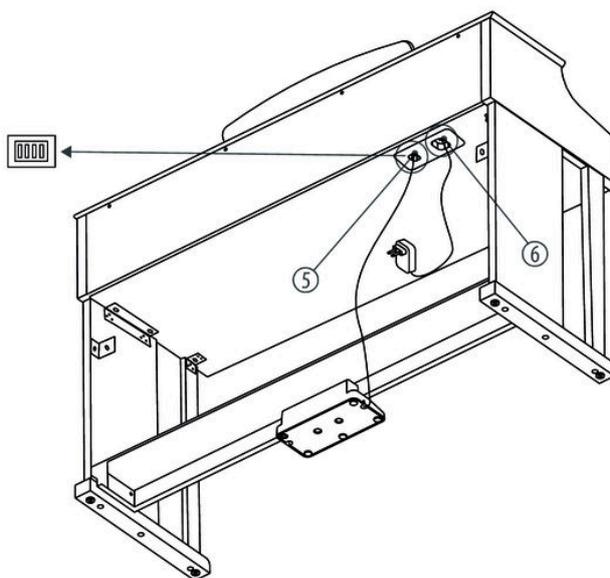
Rear panel

5	Connection for pedal cable
6	Power cord
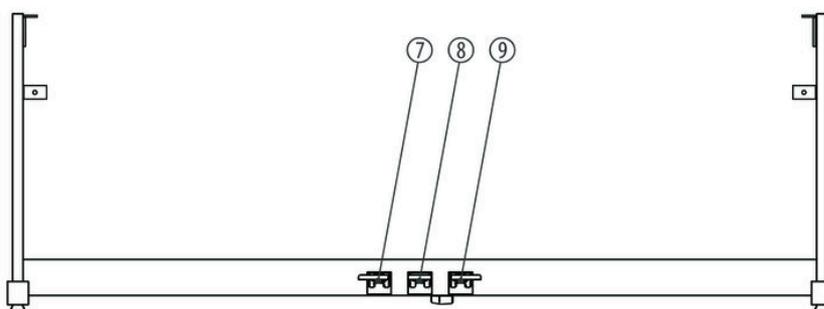
Pedals

7	Soft pedal
8	Sostenuto pedal
9	Sustain pedal

5 Connectivity options

Headphones
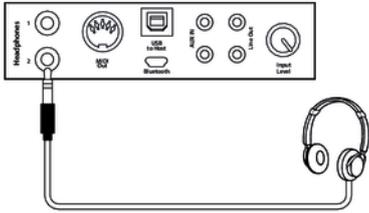
On the connection box you find the headphones outlets 1 and 2.

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

Using outlet 1 maintains the sound output through the speakers.

Pedals
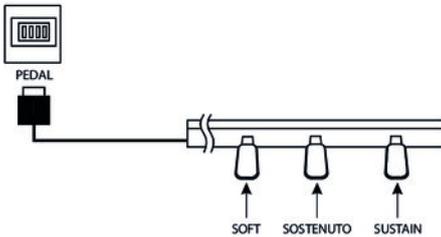
1. ▸ Connect the foot pedal to the provided connector on the bottom of the pedal box.

2. ▸ Pedal functions:

Soft pedal
Using the Soft pedal makes the piano sound smoother and the overall volume is attenuated.
Sostenuto pedal
When stepping on the Sostenuto pedal, 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.

Computer
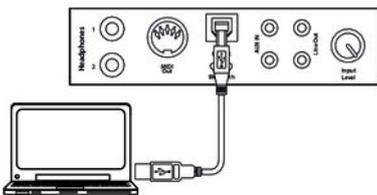
■ USB port
The USB port provides data exchange with a computer.

MIDI port
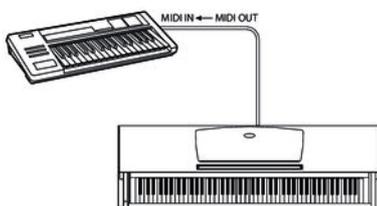
■ MIDI connections
MIDI stands for 'Musical Instrument Digital Interface' and represents a global standard for the communication of numerous electronic instruments and sound modules.
– MIDI OUT: MIDI data generated by the digital piano is sent to other MIDI devices through this port.

External audio devices
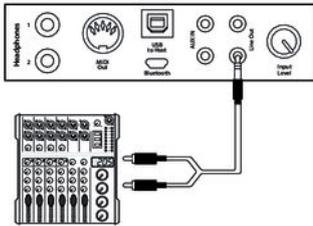
Use the *[LINE OUT]* socket to connect the digital piano to an amplifier, stereo device, mixing console or recording device. Plug one end of the audio cable into the *[LINE OUT]* socket in the connection box of the digital piano and the other end into the input of the respective audio device.

> **!** **NOTICE!**
>
> To prevent damage to the speakers, turn the volume down to 'Minimum' before you connect other devices to the digital piano.

MP3 / CD player
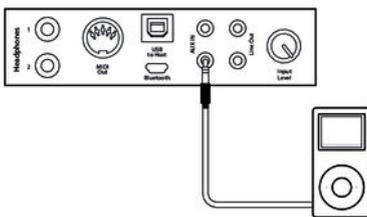
Use the *[AUX IN]* socket to connect a, for example, CD or MP3 player to the digital piano. So you can playback music through the internal speakers of the digital piano and simultaneously play along to it. Plug one end of the audio cable into the *[AUX IN]* socket in the connection box of the digital piano and the other end into the output of the respective audio device.

6 Control panel and connections
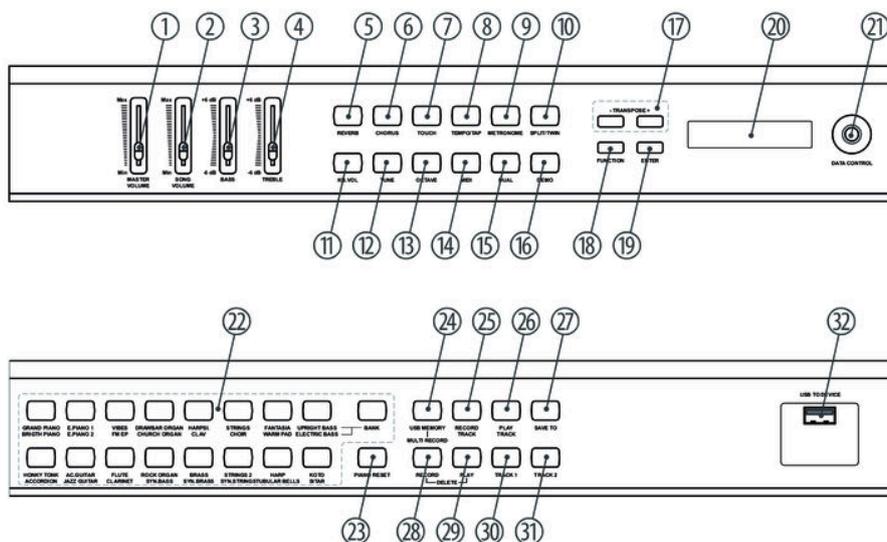
1	*[MASTER VOLUME]*
	Volume control for the built-in speakers and headphone outputs.
2	*[SONG VOLUME]*
	Volume control for the playback (USB and MIDI).
3	*[BASS]*
	Control to adjust the low frequencies.
4	*[TREBLE]*
	Control to adjust the high frequencies.
5	*[REVERB]*
	Button to engage the Reverb effect.
6	*[CHORUS]*
	Button to engage the Chorus effect.
7	*[TOUCH]*
	Key to adjust the touch sensitivity.
8	*[TEMPO / TAP]*
	Button to set the playback speed (along with the arrow buttons *[TRANSPOSE –|+]*).
9	*[METRONOME]*
	Button to turn the metronome on and off.
10	*[SPLIT / TWIN]*
	Button to activate the Split and Twin modes.

11	*[KB.VOL]*
	Button to adjust the volume of the first voice and the second voice in Dual and Split modes.

12	*[TUNE]*
	Button for fine tuning the entire keyboard.

13	*[OCTAVE]*
	Button for octaving the entire keyboard.

14	*[MIDI]*
	Button to activate the MIDI mode.

15	*[DUAL]*
	Button to activate the Dual mode.

16	*[DEMO]*
	Button to activate the Demo mode.

17	*[TRANSPOSE –|+]*
	Button for transpose the entire keyboard.

18	*[FUNCTION]*
	Button to call the function menu.

19	*[ENTER]*
	Button to confirm changes and input values as well as to open the various submenus.

20	Display

21	*[DATA CONTROL]*
	Rotary control to select parameters and to adjust the displayed values.

22	Buttons to select a sound setting:

- *[GRAND PIANO]* | *[BRIGHT PIANO]*
- *[E.PIANO 1]* | *[E.PIANO 2]*
- *[VIBES]* | *[FM EP]*
- *[DRAWBAR ORGAN]* | *[CHURCH ORGAN]*
- *[HARPSI.]* | *[CLAV]*
- *[STRINGS]* | *[CHOIR]*
- *[FANTASIA]* | *[WARM PAD]*
- *[UPRIGHT BASS]* | *[ELECTRIC BASS]*
- *[HONKY TONK]* | *[ACCORDION]*
- *[AC.GUITAR]* | *[JAZZ GUITAR]*
- *[FLUTE]* | *[CLARINET]*
- *[ROCK ORGAN]* | *[SYN.BASS]*
- *[BRASS]* | *[SYN.BRASS]*
- *[STRINGS 2]* | *[SYN.STRINGS]*
- *[HARP]* | *[TUBULAR BELLS]*
- *[KOTO]* | *[SITAR]*

Use *[BANK]* to switch between both memory banks.

23	*[PIANO RESET]*
	Button to reset the digital piano to factory defaults.
24	*[USB MEMORY]	[MULTI RECORD]*
	Button to activate the Multi-track Recording mode.
25	*[RECORD TRACK]*
	Button to select the second voice in Recording mode.
26	*[PLAY TRACK]*
	Button to start and pause the playback of recordings.
27	*[SAVE TO]*
	Store button.
28	*[RECORD]*
	Button to start and pause a recording in Multi-track mode.
29	*[PLAY]*
	Playback button.
30	*[TRACK 1]*
	Button to select the record track 1.
31	*[TRACK 2]*.
	Button to select the record track 2.
32	*[USB TO DEVICE]*
	USB port.

Connection box
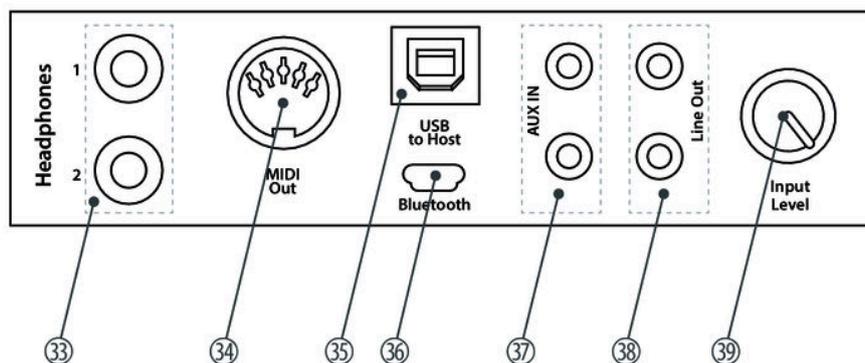
33	*[HEADPHONES]*
	Output sockets to connect headphones.
34	*[MIDI OUT]*
	MIDI out for connecting a MIDI device.
35	*[USB to host]*
	USB interface to connect a computer.
36	*[BLUETOOTH]*
	Interface to connect a Bluetooth device.
37	*[AUX IN]*
	Input socket for connecting an audio device (e.g. MP3 or CD player).
38	*[LINE OUT]*
	Output socket for connecting the digital piano to an amplifier, stereo system, mixer or recording device.
39	*[INPUT LEVEL]*
	Control to adjust the input sensitivity.

7 Operating

7.1 Turning on / off
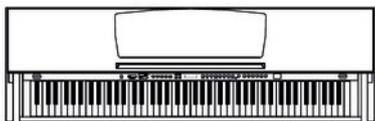
Press the *[STANDBY/ON]* main switch to the left of the claviature to turn the device on and off.

> *If the display does not light up after switching on the digital piano, check the power supply.*
>
> *If you hear nothing coming from the speakers, the volume may be set to 'minimum' or the built-in sound system is deactivated.*

7.2 Automatic shutoff

When the digital piano is not being used for 30 minutes, it switches off automatically. To turn it on again, press *[STANDBY/ON]*.

Deactivate the automatic shutoff function

To deactivate the automatic shutoff function, keep pressed the first white key at the left side of the keyboard while turning the device on. As soon as the display shows *'Sleep Mode OFF'*, the function is disabled.

By default, the automatic shutoff function is activated when turning the device on.

7.3 Adjusting the volume
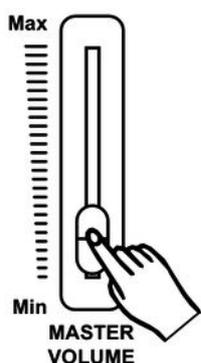
Adjust the volume control *[MASTER VOLUME]* for a pleasant volume for playback and practising. Slide the control up to increase the volume. Slide it to the left to decrease the volume.

7.4 Setting the tone
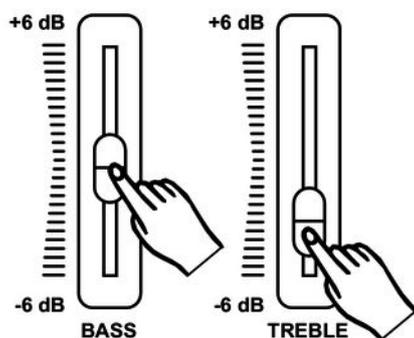
Use the tone controls *[TREBLE]* and *[BASS]* to set the overall sound of the digital piano to your liking.

7.5 Setting the touch sensitivity

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

1. ▸ Press *[TOUCH]* to activate the function.

   ⇨ The LED of the button lights.

2. ▸ Press *[TOUCH]* again to open the menu for adjusting the touch sensitivity.

   ⇨ The display shows the current setting (see the following table).

3. ▸ Use *[TRANSPOSE − | +]* or *[DATA CONTROL]* to select the desired setting.

Setting	Description
'Touch: Soft'	Soft In this setting, the volume is lower than usual even when playing with a hard touch.
'Touch: Normal'	Normal This setting corresponds to the usual touch response of a keyboard (factory default setting).
'Touch: Hard'	Hard In this setting, the volume is higher than usual even when playing with a soft touch.

Alternatively, you can adjust the responsiveness of the keyboard as a value.

1. ▸ Press *[TOUCH]* to deactivate the function.

   ⇨ The LED of the button goes out. The display shows the standard value *'FixTouch: 100'* .

2. ▸ Use *[TRANSPOSE − | +]* or *[DATA CONTROL]* to set the desired value in a range of 0 … 127.

7.6 Setting up the digital piano, Function menu

In the function menu, various parameters of the digital piano can be customized.

Press *[FUNCTION]* to enter the menu. Press *[FUNCTION]* repeatedly to select the various menu items one by one (see the following table). Confirm each with *[ENTER]* and use the rotary control *[DATA CONTROL]* to set the desired value.

Function	Display	Range	Standard
PAN effect first voice	Main.Pan?	–64 … 63	00
PAN effect second voice, Split mode	Split.Pan?	–64 … 63	00
PAN effect second voice, Dual mode	Dual.Pan?	–64 … 63	00
Arpeggio mode	Arpeggio	01, 02, OFF	OFF
Reverb effect	Rev.Type?	Hall1, Hall2, Room1, Room2, Room3, Stage1, Stage2, Plate, Delay, Echo	Hall2
Reverb effect ratio first voice	M.RevVol?	0 … 127	15
Reverb effect ratio second voice, Split mode	S.RevVol?	0 … 127	15
Reverb effect ratio second voice, Dual mode	D.RevVol?	0 … 127	15
Chorus effect	Chr.Type?	Chorus1, Chorus2, Chorus3, Chorus4, Feedback, Flanger1, ShrtDely, ShrtDlFb, Flanger2, Flanger3, Celeste1, Celeste2, Celeste3	Off
Chorus effect ratio first voice	M.ChrVol?	0 … 127	55
Chorus effect ratio second voice, Split mode	S.ChrVol?	0 … 127	55
Chorus effect ratio second voice, Dual mode	D.ChrVol?	0 … 127	55
Function pedal 1	Pedal 1?	Pd1-Null, Pd1-Soft, Pd1-sost, Pd1-Tap, Pd1-MemoryUp, Pd1-Play	Pd1-Soft
Function pedal 2	Pedal 2?	Pd2-Null, Pd2-Soft, Pd2-sost, Pd2-Tap, Pd2-MemoryUp, Pd2-Play	Pd2-sost
USB speed	USBSpeed?	50 … 200	100
Playback mode	PlayMode?	Single, Chain, Random	Single
Selecting memory bank	Mem.Bank?	Reg.Bank:01 … Reg.Bank:04	
Saving settings	Reg.SaveMem?	Reg.SaveMem : 01 … Reg.SaveMem : 06	
Loading saved settings	Reg.LoadMem?	Reg.LoadMem : 01 … Reg.LoadMem : 06	
Activating Bluetooth interface	BlueTooth?	ON/OFF	OFF

Function	Display	Range	Standard
Automatic shutoff	Auto Power Off?	SleepMode: 20Min/30Min/40Min/50Min/60Min/OFF	30Min
Reset to factory defaults	Resetmem?		

> ℹ️ *If you don't press any key within five seconds after entering the function menu, the menu is automatically closed.*

7.6.1 PAN effect first voice

With this function you can adjust the PAN effect of the first voice.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Performance?'* .

2. ▶ Confirm with *[ENTER]*.

⇨ The display shows *'Main.Pan?'* .

3. ▶ Confirm with *[ENTER]* and adjust the setting with the rotary control *[DATA CONTROL]* in a range of −64 … 63.

7.6.2 PAN effect second voice, Split mode

With this function you can adjust the PAN effect of the second voice in Split mode.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Performance?'* .

2. ▶ Confirm each with *[ENTER]* and use the rotary control *[DATA CONTROL]* to switch to the menu item *'Split.Pan?'* .

3. ▶ Confirm with *[ENTER]* and adjust the setting with the rotary control *[DATA CONTROL]* in a range of −64 … 63.

7.6.3 PAN effect second voice, Dual mode

With this function you can adjust the PAN effect of the second voice in Dual mode.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Performance?'* .

2. ▶ Confirm each with *[ENTER]* and use the rotary control *[DATA CONTROL]* to switch to the menu item *'Dual.Pan?'* .

3. ▶ Confirm with *[ENTER]* and adjust the setting with the rotary control *[DATA CONTROL]* in a range of −64 … 63.

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7.6.4 Arpeggio mode

With this function you can activate the Arpeggio mode.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Performance?'* .

2. ▶ Confirm each with *[ENTER]* and use the rotary control *[DATA CONTROL]* to switch to the menu item *'Arpeggio: ?'* .

3. ▶ Use the rotary control *[DATA CONTROL]* to select one of the following options:
- ■ *'01'* – with this selection, when playing a piano key the notes assigned to this tone resound in Arpeggio (root position).
- ■ *'02'* – with this selection, when playing a piano key the notes assigned to this tone resound in Arpeggio (inversion).
- ■ *'OFF'* – Arpeggio mode off.

7.6.5 Reverb effect

With this function you can turn on the Reverb effect and select the effect type.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Effect?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'Rev. Type'* .

3. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select one of the following options:
- ■ *'Hall1'*
- ■ *'Hall2'*
- ■ *'Room1'*
- ■ *'Room2'*
- ■ *'Room3'*
- ■ *'Stage1'*
- ■ *'Stage2'*
- ■ *'Plate'*
- ■ *'Delay'*
- ■ *'Echo'*
- ■ *'RevrbOff'*

7.6.6 Reverb effect ratio first voice

With this function you can adjust the Reverb effect ratio of the first voice.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Effect?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'M.RevVol?'* .

3. ▶ Confirm with *[ENTER]* and adjust the effects ratio with the rotary control *[DATA CONTROL]* in a range of 0 … 127.

7.6.7 Reverb effect ratio second voice, Split mode

With this function you can adjust the Reverb effect ratio of the second voice in Split mode.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Effect?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'S.RevVol?'*.

3. ▶ Confirm with *[ENTER]* and adjust the effects ratio with the rotary control *[DATA CONTROL]* in a range of 0 … 127.

7.6.8 Reverb effect ratio second voice, Dual mode

With this function you can adjust the Reverb effect ratio of the second voice in Dual mode.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Effect?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'D.RevVol?'* .

3. ▶ Confirm with *[ENTER]* and adjust the effects ratio with the rotary control *[DATA CONTROL]* in a range of 0 … 127.

7.6.9 Chorus effect

With this function you can turn on the Chorus effect and select the effect type.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Effect?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'Chr. Type'*.

3. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select one of the following options:

- *'Chorus1'*
- *'Chorus2'*
- *'Chorus3'*
- *'Chorus4'*
- *'Feedback'*
- *'Flanger1'*
- *'ShrtDely'*
- *'ShrtDlFb'*
- *'Flanger2'*
- *'Flanger3'*
- *'Celeste1'*
- *'Celeste2'*
- *'Celeste3'*
- *'ChorusOff'*

7.6.10 Chorus effect ratio first voice

With this function you can adjust the Chorus effect ratio of the first voice.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Effect?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'M.ChrVol?'* .

3. ▶ Confirm with *[ENTER]* and adjust the effects ratio with the rotary control *[DATA CONTROL]* in a range of 0 … 127.

7.6.11 Chorus effect ratio second voice, Split mode

With this function you can adjust the Chorus effect ratio of the second voice in Split mode.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Effect?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'S.ChrVol?'* .

3. ▶ Confirm with *[ENTER]* and adjust the effects ratio with the rotary control *[DATA CONTROL]* in a range of 0 … 127.

7.6.12 Chorus effect ratio second voice, Dual mode

With this function you can adjust the Chorus effect ratio of the second voice in Dual mode.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Effect?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'D.ChrVol?'* .

3. ▶ Confirm with *[ENTER]* and adjust the effects ratio with the rotary control *[DATA CONTROL]* in a range of 0 … 127.

7.6.13 Function pedal 1

With this function you can assign a desired function to pedal 1.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Pedal Assign?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'Pedal 1?'* .

3. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select one of the following options:

- ■ *'Pd1-Null'* – no function.
- ■ *'Pd1-Soft'* – Soft pedal, makes the piano sound softer and attenuates the overall volume.
- ■ *'Pd1-sost'* – Sostenuto pedal, the currently played notes linger until you release the pedal.
- ■ *'Pd1-Tap'* – TAP/TEMPO function, press the pedal twice in succession to set the metronome tempo.
- ■ *'Pd1-MemoryUp'* – Memory function, press the pedal to save the set values as a preset in the internal memory.
- ■ *'Pd1-Play'* – Playback function, press the pedal to play MIDI / USB files.

7.6.14 Function pedal 2

With this function you can assign a desired function to pedal 2.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Pedal Assign?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'Pedal 2?'* .

3. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select one of the following options:

- ■ *'Pd2-Null'* – no function.
- ■ *'Pd2-Soft'* – Soft pedal, makes the piano sound softer and attenuates the overall volume.
- ■ *'Pd2-sost'* – Sostenuto pedal, the currently played notes linger until you release the pedal.
- ■ *'Pd2-Tap'* – TAP/TEMPO function, press the pedal twice in succession to set the metronome tempo.
- ■ *'Pd2-MemoryUp'* – Memory function, press the pedal to save the set values as a preset in the internal memory.
- ■ *'Pd2-Play'* – Playback function, press the pedal to play MIDI / USB files.

7.6.15 USB speed

With this function you can set the USB speed.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Usb Function?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'USBSpeed?'* .

3. ▶ Confirm with *[ENTER]* and specify the USB speed with the rotary control *[DATA CONTROL]* in a range of 50 … 200.

7.6.16 Playback mode

With this function you can determine the playback mode for the available songs.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Usb Function?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'PlayMode?'* .

3. ▶ Use the rotary control *[DATA CONTROL]* to select one of the following options:

- *'Single'* – one selected song is played once.
- *'Chain'* – all songs are played in a loop sequence.
- *'Random'* – all songs are played in random order.

7.6.17 Selecting memory bank

With this function you can select the desired memory bank.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Memory?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'Reg.Bank?'* .

3. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select one of the available memory banks 01 … 04.

7.6.18 Saving settings

With this function you can store the current device settings as a preset.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Memory?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'Reg.SaveMem?'* .

3. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to assign the desired memory location 01 … 06.

4. ▶ Confirm your selection by pressing *[ENTER]* again.

7.6.19 Loading saved settings

This feature allows you to reload saved settings.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Memory?'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'Reg.LoadMem?'* .

3. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the memory location 01 … 06 to be accessed by the digital piano.

4. ▶ Confirm your selection by pressing *[ENTER]* again.

7.6.20   Activating Bluetooth interface

With this function you can activate the Bluetooth interface of the digital piano. To use the Bluetooth function of the digital piano, you need the supplied Bluetooth stick.

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Other Func'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'BlueTooth?'* .

3. ▶ Use the rotary control *[DATA CONTROL]* to select one of the following options:

- ■ *'BlueTooth: ON'* – Bluetooth interface activated.
- ■ *'BlueTooth: OFF'* – Bluetooth interface deactivated.

7.6.21   Automatic shutoff

If the digital piano is not in use, it shuts off after 30 minutes automatically. For adjusting or disabling the automatic shutdown, please proceed as follows:

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Other Func'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'Auto Power off'* .

3. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select one of the following options:

- ■ *'Sleepmode: 20Min'* (automatic shutoff after 20 minutes)
- ■ *'Sleepmode: 30Min'* (automatic shutoff after 30 minutes)
- ■ *'Sleepmode: 40Min'* (automatic shutoff after 40 minutes)
- ■ *'Sleepmode: 50Min'* (automatic shutoff after 50 minutes)
- ■ *'Sleepmode: 60Min'* (automatic shutoff after 60 minutes)
- ■ *'Sleepmode: OFF'* (no automatic shutoff).

Alternatively, you can disable the shutoff function by simultaneously pressing the power switch *[STANDBY/ON]* and the first black piano key (from left).

To turn the digital piano back on after an automatic shutoff press the main switch *[STANDBY/ON]* again.

7.6.22   Reset to factory defaults

Proceed as follows to restore the factory default settings:

1. ▶ Press *[FUNCTION]* until the display shows the submenu *'Other Func'* .

2. ▶ Confirm with *[ENTER]* and use the rotary control *[DATA CONTROL]* to select the menu item *'Resetmem?'* .

3. ▶ Confirm with *[ENTER]* to reset all parameters of the digital piano to the factory default settings.

⇨ All settings are reset or deleted without further confirmation prompt. The display shows *'Resetmem!'*.

Alternatively, press the *[PIANO RESET]* button to restore the factory default settings. All settings are reset or deleted without further confirmation prompt. The display shows *'01: GrandPno | Tem: 120 | Vol: 100'*.

8 Functions

8.1 Playing demo sequences

16 demo sequences are stored in the memory of the digital piano. Press *[DEMO]* to enter the DEMO mode. The LED of the button lights. All demo sequences are played successively in a loop. During playback, you can use the rotary control *[DATA CONTROL]* to switch between the demo sequences at will.

Press *[DEMO]* again to stop playback. The LED of the button goes out.

Adjusting playback speed

Press *[TEMPO/TAP]* and adjust the playback speed with the rotary control *[DATA CONTROL]* in a range of 20 … 280.

Alternatively, successively press *[TEMPO/TAP]* four times in the desired tempo to specify the playback speed by keystroke.

8.2 Reverb and Chorus effects

The sound of the digital piano can be influenced by the built-in effects. Press *[REVERB]* to engage the Reverb effect, or *[CHORUS]* to engage the Chorus effect.

Specify the effect settings from the control menu, see ⬩ *Chapter 7 'Operating' on page 22*.

8.3 Transposing

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

Press one of the *[TRANSPOSE –|+]* buttons and transpose the keyboard with the rotary control *[DATA CONTROL]* by twelve semitones up or down. The display shows the number of transposed semitones (*'Trans: –12'* … *'Trans: +12'*)

8.4 Fine tuning

With this function you can fine tune the entire keyboard of the digital piano to exactly match the pitch of other instruments.

Press *[TUNE]* and adjust the pitch with the rotary control *[DATA CONTROL]* as desired. The deviation from the standard tuning (*'Tune: 00'*) is shown in the display.

8.5 Octave transposing

This function allows you to shift the octave range of the keyboard by two octaves up or down.

Press *[OCTAVE]* and shift the octave range with the rotary control *[DATA CONTROL]* as desired up or down. The effective shift is shown in the display (*'−02'* … *'+02'*)

8.6 Metronome

Press *[METRONOME]* to turn the Metronome on and off.

Setting the Click tempo

Press *[TEMPO/TAP]* and adjust the Click tempo with the rotary control *[DATA CONTROL]* in a range of 20 … 280.

Alternatively, successively press *[TEMPO/TAP]* four times in the desired tempo to specify the Click speed by keystroke.

Setting the time signature

Keep the *[METRONOME]* button pressed until the display shows the current time signature.

Use the rotary control *[DATA CONTROL]* to select the desired time signature: 2/2, 1/4, 2/4, 3/4, 4/4, 5/4, 6/4, 3/8, 6/8, 7/8, 9/8, 12/8 (default setting *'MetroType: 4/4'*).

8.7 Voice selection

Selecting the first voice

128 voices are stored in the memory of the digital piano (↳ *Chapter 9 'Voice list' on page 40*). Use one of the direct selection buttons (↳ *Chapter 6 'Control panel and connections' on page 18*) to first select the superordinate and then with the rotary control *[DATA CONTROL]* the desired subordinate voice. The selection is shown in the display.

Use *[BANK]* to switch between both memory banks.

Setting the first voice volume

After selecting the first voice, press *[KB.VOL]*. The display shows *'M.Volume: xxx'*. Use the rotary control *[DATA CONTROL]* to set the volume in the range of 0 … 127.

8.8 Dual mode

In Dual mode two voices sound simultaneously when playing on the keyboard.

Selecting the second voice

Press *[DUAL]* to activate the Dual mode. The LED of the button lights.

Use the rotary control *[DATA CONTROL]* to select the second voice: The selection is shown in the display.

> ⓘ *If you don't make a selection for four seconds the display shows the first voice again.*

Setting the dual voice volume

After selecting the second voice, press *[KB.VOL]*. The display shows *'D.Volume: xxx'*. Use the rotary control *[DATA CONTROL]* to set the volume in the range of 0 … 127.

Press *[DUAL]* to exit the Dual mode. The LED of the button goes out.

8.9 Split mode

In Split mode, different voices are assigned to certain areas of the keyboard.

Selecting the second voice

Press *[SPLIT|TWIN]* to activate the Split mode. The display shows *'Split: ON'*. The LED of the button lights.

Use the rotary control *[DATA CONTROL]* to select the second voice: The selection is shown in the display.

> ⓘ *If you don't make a selection for four seconds the display shows the first voice again.*

Setting the dual voice volume

After selecting the second voice, press *[KB.VOL]*. The display shows *'S.Volume: xxx'*. Use the rotary control *[DATA CONTROL]* to set the volume in the range of 0 … 127.

Split point setting

Keep the *[SPLIT|TWIN]* button pressed for two seconds. The display shows the current split point: *'S.Point: xx'*.

Now use the rotary control *[DATA CONTROL]* to specify the desired split point.

To exit the Split mode press *[SPLIT|TWIN]* repeatedly until the LED of the button turns off.

8.10 Twin mode

In Twin mode, the keyboard is divided into two areas with the same voice.

To activate the Twin mode press *[SPLIT|TWIN]* repeatedly until the display shows *'Twin: ON'* appears in the first line of the display. The LED of the button lights.

The area on the right comprises the piano keys C#3 to C7, the area to the left comprises the piano keys A1 to C3.

To exit the Twin mode press *[SPLIT|TWIN]* repeatedly until the LED of the button turns off.

8.11 Record, playback, delete

With the digital piano you can record your own songs with a maximum of 16 tracks. At this, you have the option to assign preprogrammed voices to certain tracks during recording.

In USB mode, your recordings are stored on an external USB storage medium and played from there.

In melody mode you have the option to depose your own recording as a melody track in the device memory.

8.11.1 Recording in USB mode

1. ▶ Connect the external USB storage device to the digital piano.

2. ▶ Press *[RECORD]* to activate the recording mode.

   ⇨ The LED of the button lights. The recording starts when you begin playing.

3. ▶ Press *[RECORD]* again to stop recording.

   ⇨ The display shows the automatically assigned label in the format *'xx: SONGxx'* (File number and continuous recording number), under which the recording is stored.

4. ▶ To record additional tracks, press *[USB MEMORY]* and *[RECORD]* simultaneously.

   ⇨ The recording starts when you begin playing.

5. ▶ Press *[RECORD]* again to stop recording the new track.

8.11.2 Playing recordings from USB memory

1. ▶ Connect the external USB storage device to the digital piano.

2. ▶ Use the rotary control *[DATA CONTROL]* to select the track you want to play.

3. ▶ Press *[PLAY]* to play the recording.

8.11.3 Track muting

With this function you can mute one of the tracks of a song.

1. ▸ Repeatedly press the *[PLAY TRACK]* button to select the track you want to mute.

⇨ The display shows *'001: SONG01 | FltTrk 01 … 16: ON'* .

2. ▸ Use the rotary control *[DATA CONTROL]* to select the option *'OFF'* to mute the track.

To unmute the track, re-select the track and then use the rotary control *[DATA CONTROL]* to highlight *'ON'* .

8.11.4 Recording in Melody mode

In Melody mode, two tracks are available for recording.

1. ▸ Press *[RECORD]* and *[TRACK 1]* simultaneously for recording to track 1.

⇨ The LEDs of the buttons are flashing. The display shows *'Rec Track 1'* .

2. ▸ The recording starts when you begin playing.

3. ▸ Press *[RECORD]* again to stop recording.

> *If track 2 already contains data, the LED of the button [TRACK 2] lights and that track is played as accompaniment track during recording. To mute the already data containing track 2 while recording, press [TRACK 2].*

1. ▸ Press *[RECORD]* and *[TRACK 2]* simultaneously for recording to track 2.

⇨ The LEDs of the buttons are flashing. The display shows *'Rec Track 2'* .

2. ▸ The recording starts when you begin playing.

3. ▸ Press *[RECORD]* again to stop recording.

> *If track 1 already contains data, the LED of the button [TRACK 1] lights and that track is played as accompaniment track during recording. To mute the already data containing track 1 while recording, press [TRACK 1].*

8.11.5 Playing melody tracks

1. ▸ Press *[PLAY]* to play recorded melody tracks.

2. ▸ Use *[TRACK 1]* and *[TRACK 2]* to change between track 1 and track 2 at will.

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8.11.6 Deleting melody tracks

1. ▶ Keep the button *[TRACK 1]* (*[TRACK 2]*) pressed for three seconds.

⇨ The display shows *'CLEAR TCK 1'* (*'CLEAR TCK 2'*). The LED of the button *[TRACK 1]* (*[TRACK 2]*) goes out, the recording is deleted.

2. ▶ To delete both tracks at the same time, press both buttons *[TRACK 1]* and *[TRACK 2]* simultaneously.

8.12 Copying data to USB memory

1. ▶ Connect the external USB storage device to the digital piano.

2. ▶ Press the *[SAVE TO]* button repeatedly until the display shows *'Save TCK To USB'*.

3. ▶ Press *[TRANSPOSE +]* to copy the current file to the external storage device.

⇨ The display shows *'Save OK!'*.

8.13 Loading data from USB memory

1. ▶ Connect the external USB storage device to the digital piano.

2. ▶ Use the rotary control *[DATA CONTROL]* to select the track you want to load.

3. ▶ Press the *[SAVE TO]* button repeatedly until the display shows *'Load'*.

4. ▶ Press *[TRANSPOSE +]* to load the file from the external storage device.

⇨ The display shows *'Load OK!'*.

8.14 Device configuration

You can store 24 configuration files in the memory of the digital piano and recall them any time when needed (parameter see ↳ *Chapter 7.6 'Setting up the digital piano, Function menu' on page 24*).

8.14.1 Copying configuration file to USB memory

1. ▶ Connect the external USB storage device to the digital piano.

2. ▶ Press the *[SAVE TO]* button repeatedly until the display shows *'Save REG To USB'*.

3. ▶ Press *[TRANSPOSE +]* to copy the current settings as configuration file to the external storage device.

⇨ The display shows the automatically assigned file name in the format *'xxx: REG__xxx'* and the note *'Save OK!'* .

8.14.2 Loading configuration file from USB memory

1. ▶ Connect the external USB storage device to the digital piano.

2. ▶ Use the rotary control *[DATA CONTROL]* to select the configuration file you want to load.

3. ▶ Confirm with *[PLAY]* to load the configuration file.

⇨ The display shows *'Load OK!'* .

8.14.3 Deleting configuration file from USB memory

1. ▶ Connect the external USB storage device to the digital piano.

2. ▶ Use the rotary control *[DATA CONTROL]* to select the configuration file you want to delete.

3. ▶ Press *[PLAY]* and *[RECORD]* simultaneously.

⇨ The display shows the confirmation prompt *'Delete?'* .

4. ▶ Confirm with *[TRANSPOSE +]* to delete the configuration file.

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9 Voice list

No.	Name	No.	Name	No.	Name
Piano		27	Electric Guitar (Jazz)	54	Voice Oohs
01	Acoustic Grand Piano	28	Electric Guitar (Clean)	55	Synth Voice
02	Bright Acoustic Piano	29	Electric Guitar (Muted)	56	Orchestra Hit
03	Electric Grand Piano	30	Overdriven Guitar	**Brass**	
04	Honky-Tonk Piano	31	Distortion Guitar	57	Trumpet
05	Electric piano 1	32	Guitar Harmonics	58	Trombone
06	Electric Piano 2	**Bass**		59	Tuba
07	Harpsichord	33	E.Piano 4 / W	60	Muted Trumpet
08	Clavi	34	Electric Bass(Finger)	61	French Horn
Chromatic		35	Electric Bass(Pick)	62	Brass Section
09	Celesta	36	Fretless Bass	63	Synth Brass 1
10	Glockenspiel	37	Slap Bass 1	64	Synth Brass 2
11	Music Box	38	Slap Bass 2	**Reed**	
12	Vibraphone	39	Synth Bass 1	65	Soprano Sax
13	Marimba	40	Synth Bass 2	66	Alto Sax
14	Xylophone	**Strings**		67	Tenor Sax
15	Tubular Bells	41	Violin	68	Baritone Sax
16	Dulcimer	42	Viola	69	Oboe
Organ		43	Cello	70	English Horn
17	Drawbar Organ	44	Contrabass	71	Bassoon
18	Percussive Organ	45	Tremolo Strings	72	Clarinet
19	Rock Organ	46	Pizzicato Strings	**Pipe**	
20	Church Organ	47	Orchestral Harp	73	Piccolo
21	Reed Organ	48	Timpani	74	Flute
22	Accordion	**Ensemble**		75	Recorder
23	Harmonica	49	Strings Ensemble 1	76	Pan Flute
24	Tango Accordion	50	Strings Ensemble 2	77	Blown Bottle
Guitar		51	Synth Strings 1	78	Shakuhachi
25	Acoustic Guitar(Nylon)	52	Synth Strings 2	79	Whistle
26	Acoustic Guitar (Steel)	53	Choir Aahs	80	Ocarina

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digital piano

No.	Name	No.	Name	No.	Name
Synth Lead		**Synth Effects**		**Percussive**	
81	Lead 1 (Square)	97	Fx 1 (Rain)	113	Tinkle Bell
82	Lead 2 (Sawtooth)	98	Fx 2 (Soundtrack)	114	Agogo
83	Lead 3 (Calliope)	99	Fx 3 (Crystal)	115	Steel Drums
84	Lead 4 (Chiff)	100	Fx 4 (Atmosphere)	116	Woodblock
85	Lead 5 (Charang)	101	Fx 5 (Brightness)	117	Taiko Drum
86	Lead 6 (Voice)	102	Fx 6 (Goblins)	118	Melodic Tom
87	Lead 7 (Fifth)	103	Fx 7 (Echoes)	119	Synth Drum
88	Lead 8 (Bass+Lead)	104	Fx 8 (Sci-Fi)	120	Reverse Cymbal
Synth Pad		**Ethnic**		**Sound Effects**	
89	Pad 1 (New Age)	105	Sitar	121	Guitar Fret Noise
90	Pad 2 (Warm)	106	Banjo	122	Breath Noise
91	Pad 3 (Polysynth)	107	Shamisen	123	Seashore
92	Pad 4 (Choir)	108	Koto	124	Bird Tweet
93	Pad 5 (Bowed)	109	Kalimba	125	Telephone Ring
94	Pad 6 (Metallic)	110	Bagpipe	126	Helicopter
95	Pad 7 (Halo)	111	Fiddle	127	Applause
96	Pad 8 (Sweep)	112	Shanai	128	Gunshot

10 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. Check in the function menu that the built-in sound system is activated. When activating, the display shows 'Local On'.
Malfunction occurs when using a mobile 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.

11 MIDI implementation chart

Function		Sent	Received	Notes
Basic Channel	Default	(*1)	1 – 16	
	Changed	(*1)	1 – 16	
Mode	Default	Mode 3	Mode 3	
	Messages	No	No	
	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	Yes, 9nH, v = 0 or 8nH	Yes, 9nH, v = 0 or 8nH	
After Touch	Keys	No	No	
Pitch Bend		No	Yes	
Control Change	0.32	Yes	Yes	Bank Select
	1	No	Yes	Modulation
	5	No	Yes	Portamento Time
	6	Yes	Yes	Data Entry
	7	Yes	Yes	Volume
	10	Yes	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
	80.81	Yes	Yes	DSP TYPE
	91.93	Yes	Yes	DSP DEPTH
	100.101	Yes	Yes (*2)	RPN LSB, MSB
	120	Yes	Yes	All Sound Off
	121	No	Yes	Reset All Controllers
	122	Yes	Yes	Local control
Program Change		Yes 0 – 127	Yes 0 – 127	

Function		Sent	Received	Notes
	True	0 – 127	0 – 127	
System Exclusive		No	Yes	
System Common	Song Position Pointer	No	No	
	Song Select	No	No	
	Tune Request	No	No	
Aux Messages	LOCAL ON/OFF	Yes	Yes	
	All Notes Off	Yes	Yes	
	Active Sensing	No	Yes	
	System Reset	No	Yes	
Notes:	*1 Main voice track (1 – 16).Default: 01 Split voice track (1 – 16).Default: 02 Dual voice track (1 – 16).Default: 03 Percussion track (1 – 16).Default: 10 *2 Registered parameter number: #0: Pitch sensitivity #1: Fine tuning cents #2: Coarse tuning in half-tones			

MIDI channel modes

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

12 Technical specifications

Display	Blue backlit LCD
Keyboard	88 weighted keys with hammer action and adjustable touch response.
Polyphony	64-voice
Voices	128
Demo songs	16
Memory	4×6 memory locations for user settings
Recording tracks	3
Pedals	Soft, Sostenuto, Sustain
Connections	Power supply via 12V adapter ⎓, $2 \times$ headphones (1/4"), AUX, USB, MIDI, audio out, audio in, Bluetooth
Speaker	2×20 W, $6 \,\Omega$ 2×5 W, $4 \,\Omega$
Dimensions (W × D × H)	1400 mm × 490 mm × 860 mm
Weight	54 kg
Housing colour	Black polished

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13 Protecting the environment

Disposal of the packaging material

For the transport and protective packaging, environmentally friendly materials have been chosen that can be supplied to normal recycling.

Ensure that plastic bags, packaging, etc. are properly disposed of.

Do not just dispose of these materials with your normal household waste, but make sure that they are collected for recycling. Please follow the notes and markings on the packaging.

Disposal of your old device

This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) in its currently valid version. Do not dispose with your normal household waste.

Dispose of this device through an approved waste disposal firm or through your local waste facility. When discarding the device, comply with the rules and regulations that apply in your country. If in doubt, consult your local waste disposal facility.