

th•mann

SP 5600

User Manual

Portable Grand Keyboard

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

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

2 Safety instructions

Intended use

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

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

Safety



DANGER!

Risk of injury and choking hazard for children!

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



DANGER!

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.



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.

3 Features

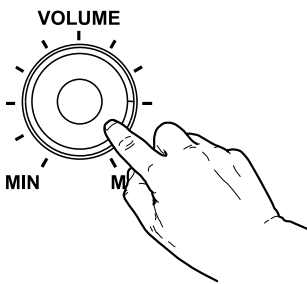
- 88 keys with hammer action
- Multifunction LED display
- Pitch bend wheel
- 128-voice polyphony
- 600 voices
- 230 programmed styles, 10 user styles
- 120 programmed songs, 5 user songs
- 5 demo songs
- Reverb, Chorus and Sustain effects
- Master EQ
- Sequencer
- Accompaniment and recording function
- Learning function and chord library
- Split and duo mode
- Metronome
- Transpose function
- Built-in speakers
- USB port
- Automatic shutoff
- Sustain pedal, music stand and 12 V power adapter included

4 Assembly instructions

Unpack and check carefully there is no transportation damage before using the unit. Keep the equipment packaging. To fully protect the product against vibration, dust and moisture during transportation or storage use the original packaging or your own packaging material suitable for transport or storage, respectively.

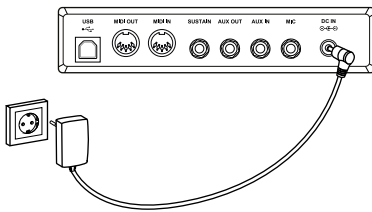
Set up the device in the desired location.

Power supply



The unit is powered by the included 12 V power supply. Make sure that the device is turned off before you connect it to the power supply or disconnect it.

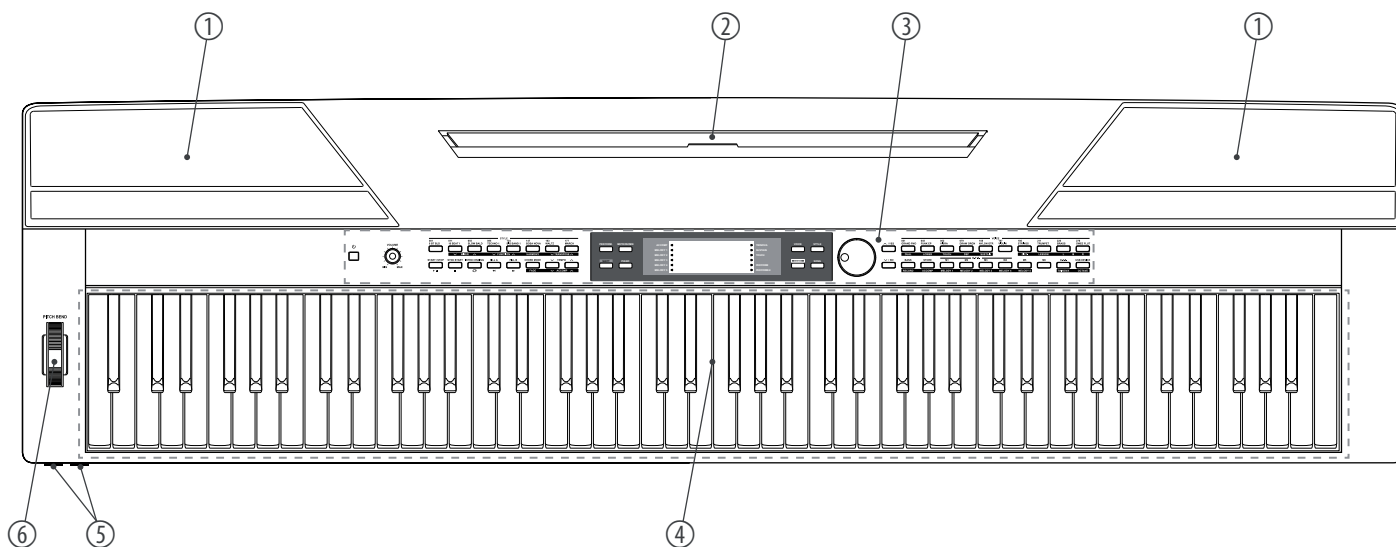
Turn the volume control counter-clockwise to minimum before connecting the device to the power supply or to other devices. This is to protect the speakers from damage.



Connect the cable from the power adapter outlet to the input socket *[DC IN]* on the rear panel of the device. Plug the plug of the power cord into a properly wired and earthed mains wall outlet.

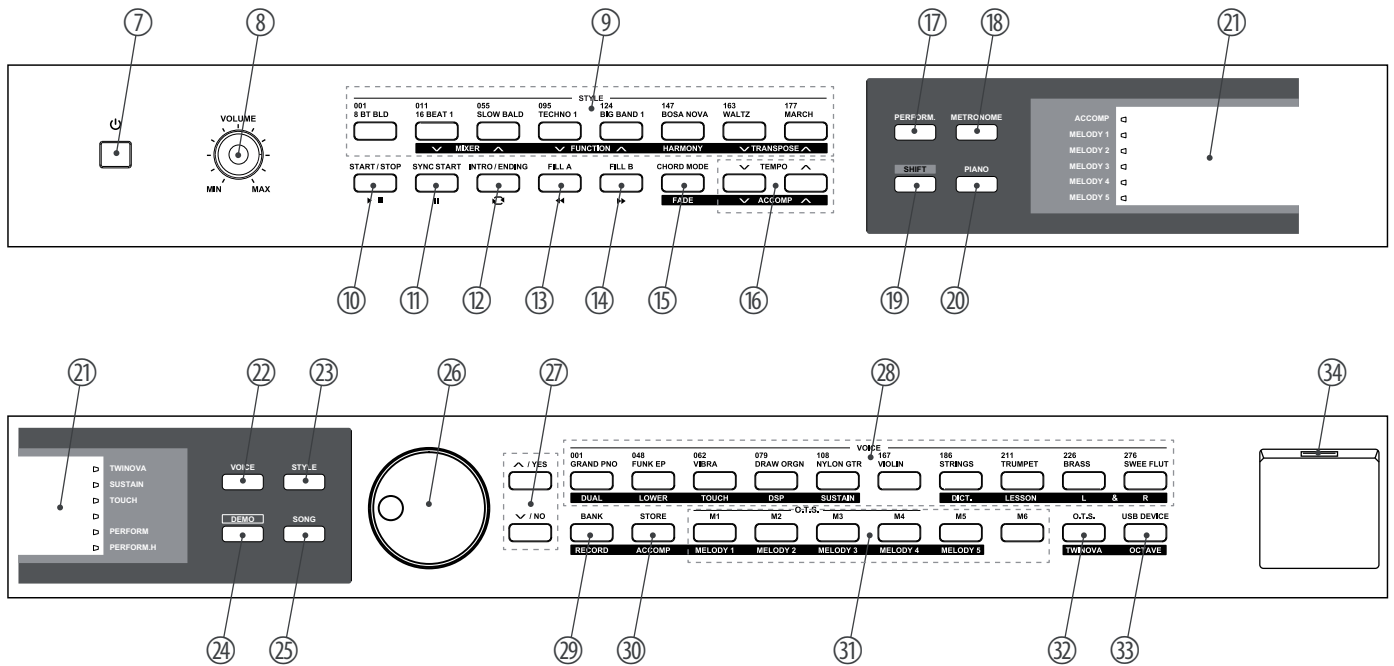
5 Connections and controls

Overview



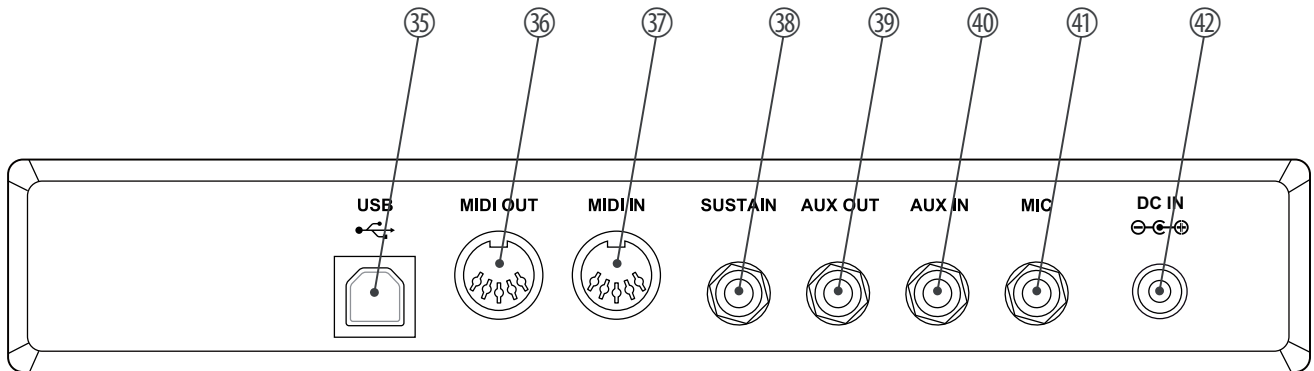
- | | |
|---|--|
| 1 | Built-in speakers |
| 2 | Music stand holder |
| 3 | Control panel with function keys and display |
| 4 | Claviature with 88 keys |
| 5 | 2 × connection sockets for headphones |
| 6 | Pitch bend wheel for changing the pitch |

Control panel



- 7 ⏻ | Button to turn the device on and off
- 8 [VOLUME] | Rotary control to adjust the volume
- 9 [STYLE] | Simple button function: direct style selection
 Button function when the [SHIFT] button is pressed:
 - [MIXER] | Opens the mixer menu
 - [FUNCTION] | Opens the function menu
 - [HARMONY] | Enables/disables harmony mode
 - [TRANSPOSE] | Transposes the piano keys in semitone steps
- 10 [START/STOP] | Starts/stops the playback of demo songs or styles
- 11 [SYNC START] | Enables and disables the sync start function in the accompaniment and recording mode
- 12 [INTRO/ENDING] | Inserts an intro / ending in accompaniment mode.
- 13 [FILL A] | Inserts fills in accompaniment mode
- 14 [FILL B] | Inserts fills in accompaniment mode
- 15 [CHORD MODE]/[FADE] | Simple button function: Enables/disables chord mode
 Button function when the [SHIFT] button is pressed: Enables/disables the fade function in accompaniment mode
- 16 [TEMPO]/[ACCOMP] | Simple button function: Increases/decreases playback tempo
 Button function when the [SHIFT] button is pressed: Setting the accompaniment track volume.
- 17 [PERFORM] | Enables/disables the performance assistant
- 18 [METRONOME] | Activates/deactivates the metronome
- 19 [SHIFT] | Enables the second function of dual function buttons
- 20 [PIANO] | Calls up piano mode
- 21 Display

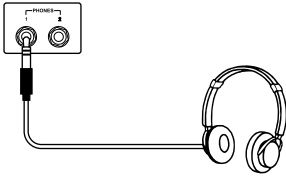
22	[VOICE] Calls up voice mode
23	[STYLE] Calls up style mode
24	[DEMO] Calls up demo mode
25	[SONG] Calls up song mode
26	Jog dial for selecting functions, parameters and values
27	▲/[YES] Parameter selection and increasing displayed value by one. ▼/[NO] Parameter selection and decreasing displayed value by one.
28	[VOICES] Simple button function: direct voice selection Button function when the [SHIFT] button is pressed: <ul style="list-style-type: none"> ■ [DUAL] Enables/disables dual mode (layer function) ■ [LOWER] Enables/disables lower mode (split function) ■ [TOUCH] Opens the menu for adjusting the touch sensitivity of the claviature ■ [DSP] Turns digital effects on/off ■ [SUSTAIN] Enables/disables the sustain function ■ [DICT] Opens the chord library ■ [LESSON] Enables/disables lesson mode ■ [L] Selects the left hand voice in lesson mode ■ [R] Selects the right hand voice in lesson mode
29	[BANK]/[RECORD] Simple button function: Selecting memory bank Button function when the [SHIFT] button is pressed: Enabling / disabling the Recording mode.
30	[STORE]/[ACCOMP] Simple button function: Saves current values as user setting. Button function when the [SHIFT] button is pressed: Record enabling accompaniment track.
31	[M1] ... [M6]/[MELODY 1] ... [MELODY 5] Simple button function: Calls up user settings M1 ... M5 (in O.T.S. mode M1 ... M4) Button function when the [SHIFT] button is pressed: Selects melody tracks 1 ... 5 for the recording.
32	[O.T.S]/[TWINOVA] Simple button function: Enables/disables single-finger mode (One Touch Setting) Button function when the [SHIFT] button is pressed: Enabling / disabling the TWINOVA mode.
33	[USB DEVICE]/[OCTAVE] Simple button function: Opens the menu for adjusting the USB functions Button function when the [SHIFT] button is pressed: Octaving the keyboard in TWINOVA mode.
34	USB interface for connecting a USB device.

-Connections on the back

- | | |
|----|---|
| 35 | [<i>USB</i>] USB interface to connect a computer |
| 36 | [<i>MIDI OUT</i>] MIDI out for connecting an external MIDI device |
| 37 | [<i>MIDI IN</i>] MIDI in for connecting an external MIDI device |
| 38 | [<i>SUSTAIN</i>] Pedal connecting socket (6.35 mm jack) |
| 39 | [<i>AUX OUT</i>] Output socket for connecting the device to an amplifier, stereo system, mixer or recording device (6.35 mm jack) |
| 40 | [<i>AUX IN</i>] Input socket for connecting an external audio device (e.g. MP3 or CD player, 6.35 mm jack). |
| 41 | [<i>MIC</i>] Input socket for connecting a microphone (6.35 mm jack) |
| 42 | [<i>DC IN</i>] Connection for power supply |

6 Connection options

Headphones



To the left beneath the keyboard you will find headphone outputs 1 and 2. Connecting headphones (not supplied) to output 2 mutes the speakers. When using output 1, you hear the sound through headphones and speakers.



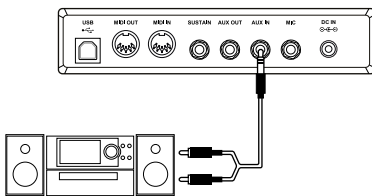
WARNING!

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 via AUX OUT



Use the [AUX OUT] socket to connect the keyboard to an amplifier, stereo device, mixing console or recording device. Plug one end of the audio cable into the [AUX OUT] socket on the back of the keyboard and the other end into the input of the respective audio device.



NOTICE!

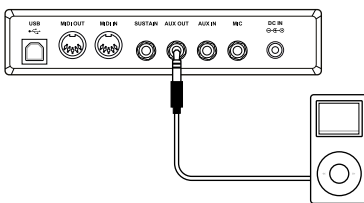
Damage to the speaker due to excessive volume!

If the volume is too high, this can damage the speakers.

Avoid operating the device at excessively high volumes over an extended period of time.

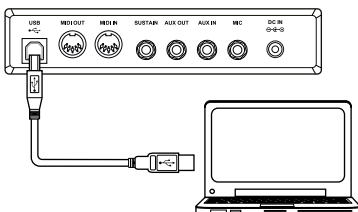
Turn the volume down to "Minimum" before you connect other devices.

External audio devices via AUX IN



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

Computer via USB



You can connect the keyboard to exchange data with a PC via the USB port. This also allows the transfer of MIDI files.



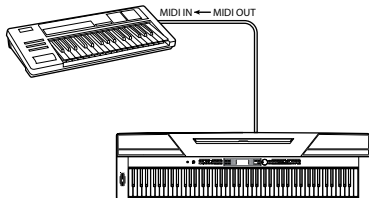
NOTICE!

Do not set the USB interface as the in and output at the same time in the computer software. Otherwise there will be overlap when the keyboard is played.



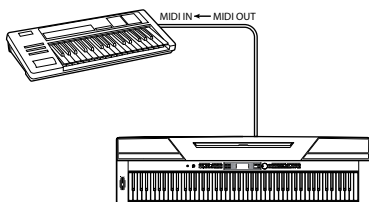
Use a current operating system still supported by the provider to avoid technical difficulties.

MIDI device via MIDI IN



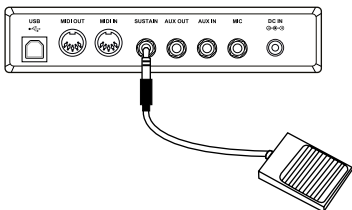
Use the MIDI interface [*MIDI IN*] to receive MIDI data from an external MIDI device.

MIDI device via MIDI OUT



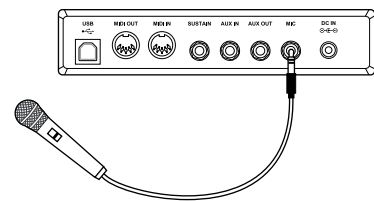
Use the MIDI interface [*MIDI OUT*] to send MIDI data to an external MIDI device.

Sustain pedal



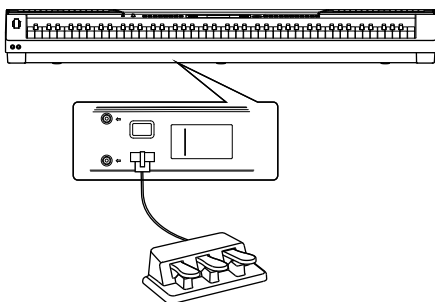
Use the [*SUSTAIN*] connection socket to connect a sustain pedal to the keyboard.

Microphone



Use the connection socket [*MIC*] to connect a dynamic microphone (6.3-mm jack) to the keyboard.

Pedal box



You can connect a triple pedal (Sustain, Sostenuto and Soft) of the optional Thomann original stand (item no. 352262) via the connection socket on the bottom of the keyboard.

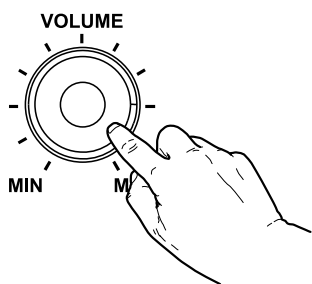
7 Quick start guide

In order to provide you with a quick introduction, the main functions of the keyboard are described in brief in this chapter. A detailed description of the setting options can be found in the chapters ↪ *Chapter 9 'Operating' on page 26* and ↪ *Chapter 8 'Turning the keyboard on / off, setup' on page 18*.

Turning the keyboard on / off

Press the power button on the left of the operating panel to turn the device on and off. The display shows *'Loading!'*. The keyboard is immediately operational.

Adjusting the volume



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

Playing demo sequences

The demo sequences stored in the device show the sound and the pitch range of the keyboard.

1. ➤ Press [*DEMO*] to start playing the demo sequences in a continuous loop.
2. ➤ Use [*YES*] and [*NO*] to toggle between the five demo sequences (see ↪ *Chapter 13.4 'Demo list' on page 63*).
3. ➤ Press [*DEMO*] again or [*START/STOP*] to stop playing the demo sequences.

Playing voices

The keyboard features a selection of 600 authentic voices, see ↪ *Chapter 13.3 'Voice list' on page 55*.

1. ➤ Press [*VOICE*] or one of the direct selection buttons to activate the last set or a desired voice directly.
 - ⇒ The display shows the name and number of the first right hand voice (main voice), e.g. *'VOICE R1', '001', 'GrandPno'*.
2. ➤ Use [*YES*] and [*NO*], the jog dial or a direct select button to assign another voice.

Press the [*VOICE*] button repeatedly to toggle between the upper and lower voice of a direct selection button.

In dual and split mode, you toggle between the first and second right hand voice and the left hand voice by repeatedly pressing the [*VOICE*] button: *'VOICE R1', 'VOICE R2'* and *'VOICE L'*, see the following chapters for Dual and Split mode.

Style playing

The styles stored in the keyboard are used to support your own playing at performances, while practising and recording.

1. ▶ Press *[STYLE]* to activate the Style mode.
2. ▶ Use *[YES]* and *[NO]*, the jog wheel or a direct select button to enable the desired style directly (see [Chapter 13.2 'Styles list' on page 51](#)).
3. ▶ Press *[START/STOP]* to start or stop style playback.

Playing songs

The keyboard offers a choice of 120 songs to accompany your playing at performances, while practising and recording. In addition, five tracks for your own recordings are available.

1. ▶ Press *[SONG]* to start playing the songs in a continuous loop.
2. ▶ Use *[YES]* and *[NO]* to toggle between the stored songs (see [Chapter 13.1 'Song list' on page 49](#)).
3. ▶ Press *[START/STOP]* to start or stop song playback.
4. ▶ Press *[STYLE]* or *[VOICE]* to exit the song mode.

Recording songs

You can record up to five own tracks with the keyboard and store them in the internal memory.

1. ▶ Hold down *[SHIFT]* and press *[RECORD]* to enable the recording mode.
2. ▶ Use *[YES]* and *[NO]* or the jog dial to select a free memory location for the recording.
3. ▶ Hold down *[SHIFT]* and press *[RECORD]* again to record-enable the keyboard.
4. ▶ The recording starts as soon as you play the first tone or chord or press *[START/STOP]*.
5. ▶ Hold down *[SHIFT]* and press *[RECORD]* again to end the recording and to play the recorded sequence in an endless loop.
6. ▶ To disable the recording mode, hold down *[SHIFT]* and press *[RECORD]*.

8 Turning the keyboard on / off, setup

8.1 Turning the keyboard on / off

Press the power button on the left of the operating panel to turn the device on and off. The display shows 'Loading!'. The keyboard is immediately operational.



If the display does not light up after switching on the keyboard, check the power supply.

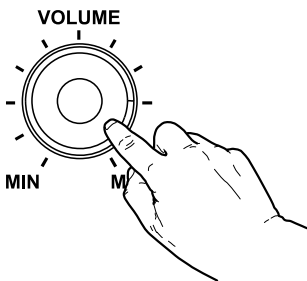
If you hear nothing coming from the speakers, the volume may be set to 'minimum'.

8.2 Automatic shutdown

If the keyboard is not in use, it shuts off automatically after 30 minutes. To adjust or deactivate the automatic shutdown, press [SHIFT] and [FUNCTION] twice. The time window can then be set via [YES] and [NO].

To turn the device on again after an automatic shutdown, press the on / off switch to the left of the panel.

8.3 Adjusting the volume



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

8.4 Setting the touch sensitivity

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

1. Hold down [SHIFT] and press [TOUCH] to open the menu for adjusting the touch sensitivity.
2. Adjust the touch sensitivity with [YES] and [NO] or with the jog dial.
3. Press [YES] and [NO] simultaneously to restore the default setting '002'.

Parameter	Meaning
'OFF'	Touch sensitivity is off.
'001'	Soft In this setting, the volume is lower than usual even when playing with a soft touch.

Parameter	Meaning
'002'	Normal This setting corresponds to the usual touch response of a clavature.
'003'	Hard In this setting, the volume is higher than usual even when playing with a hard touch.

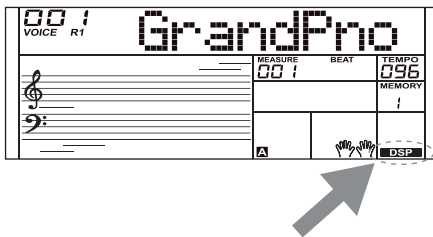
8.5 Sustain effect

This feature allows you to assign a general Sustain to the keyboard. When the Sustain function is turned on, all tones played on the keyboard linger.

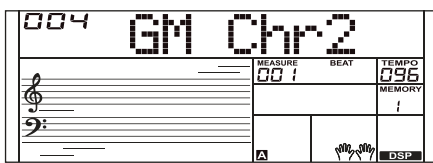
1. ➤ Hold down *[SHIFT]* and press *[RECORD]* to add the effect.
2. ➤ Hold down *[SHIFT]* and press *[RECORD]* again to disable the effect.

8.6 Digital effects

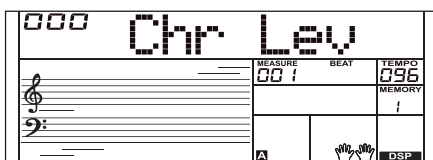
The DSP functions let you simulate the acoustic effects under different environmental conditions.



1. ➤ Hold down *[SHIFT]* and press *[DSP]* to enable the function.
⇒ The icon 'DSP' appears on the display.



2. ➤ Hold down *[SHIFT]* and press *[FUNCTION] ▲* or *[FUNCTION] ▼* until the display shows 'GM Chr2'.
3. ➤ Turn the jog dial within 3 seconds to select the desired effect.



4. ➤ Hold down *[SHIFT]* and press *[FUNCTION] ▲* or *[FUNCTION] ▼* until the display shows 'Chr Lev'.
5. ➤ Select with the jog dial the desired effect strength between 000...127.
6. ➤ Hold down *[SHIFT]* and press *[DSP]* again to disable the function.
⇒ The 'DSP' icon goes out.

8.7 Setting up the keyboard, Function menu

Hold down *[SHIFT]* and press *[FUNCTION] ▲* or *[FUNCTION] ▼* to open the Function menu. Select the desired sub menu using the buttons *[FUNCTION] ▲* or *[FUNCTION] ▼*. You can then change the following parameters using the jog dial or *[YES]* and *[NO]*.

Option	LCD	Control range	Default value
Fine tuning	'Tune'	-50 ... 50	000
Time signature	'Beat'	0, 2 ... 9	004
Split point	'Split Pt'	1 ... 88	034
Pedal function	'SPd'	SUST, SOFT, St/T, MEM	SUST
	'UPd'	SOFT, St/T, MEM	SOFT
Selection Harmony setting	'HAR TYPE'	Duet, Standard Trio, Full Chord, Rock Duet, Country Duet, Country Trio, Block, 4 Close 1, 4 Close 2, 4 Open, 1+5, Octave1, Octave2, Strum, Echo1, Echo2, Echo3, Echo4, Tremolo1, Tremolo2, Tremolo3, Tremolo4, Trill1, Trill2, Trill3, Trill4	Duet
Equalizer	'EQ TYPE'	Pop, Rock, Class, Jazz, Dance, Reset	Reset
Reverb effect	'Rev TYPE'	Room1, Room2, Room3, Hall1, Hall2, Hall3, Chr1, Chr2, Del, PanD	Hall1
Reverb volume	'Rev Lev'	0 ... 127	depending on the selected voice
Chorus effect	'Chr TYPE'	Chorus1, Chorus2, GM Chr1, GM Chr2, Flanger1, Flanger2, Rotary2	GM Chr2
Chorus volume	'Chr Lev'	0 ... 127	depending on the selected voice
MIDI receive channel	'Midi In'	1 ... 16, ALL	ALL
MIDI send channel	'Midi Out'	1 ... 16	001
Automatic shutoff	'POWER OFF'	030, 060, OFF	030



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

8.7.1 Fine tuning

With this function you can fine tune the entire claviature in cent steps.

1. ➤ Use [FUNCTION] ▲ or [FUNCTION] ▼ to change into the 'Tune' menu. The current setting appears on the display.
2. ➤ Adjust the pitch using [YES] and [NO] or the jog dial in a range from -50 to +50 cents. Each time a key is pressed, the value changes by 1 cent.
3. ➤ Press [YES] and [NO] simultaneously to restore the default pitch.

8.7.2 Time signature

With this function you can set the time signature in a range from 0 to 9.

1. ➤ Use [FUNCTION] ▲ or [FUNCTION] ▼ to change into the 'Beat' menu. The current setting appears on the display.
2. ➤ Adjust the time signature with [YES] and [NO] or with the jog dial.
3. ➤ Press [YES] and [NO] simultaneously to restore the time signature standard value '004'.

8.7.3 Split point

Using this function you can select a point to split the whole claviature into two areas.

1. ➤ Use **[FUNCTION] ▲** or **[FUNCTION] ▼** to change into the 'Split Pt' menu. The display shows the current setting.
2. ➤ Specify the desired split point using the buttons **[YES]** and **[NO]** or the jog dial. The keys to the right of this point are the right hand area, the keys of the other sides are the left hand area (chord area).
3. ➤ Press **[YES]** and **[NO]** simultaneously to restore the split point standard value 'F#3'.



In TWINOVA mode, the default split point is E3 (32) and can only be determined by the user between C3 and C6 (28 to 64).

8.7.4 Pedal function

With this function you can assign the pedal function.

1. ➤ Use **[FUNCTION] ▲** or **[FUNCTION] ▼** to change into one of the menus 'SPd' (Sustain) or 'UPd' (Soft). The current setting appears on the display.
2. ➤ Use **[YES]** and **[NO]** or the jog dial to assign the desired pedal function:

Sustain pedal (enclosed)	Display	Soft pedal (left pedal of the optional SP-5600 stand)	Display
Sustain pedal	'SPd Sust'	Soft pedal	'UPd Soft'
Soft pedal	'SPd Soft'	Enabling / disabling the accompaniment track	'UPd St/T'
Enabling / disabling the accompaniment track	'SPd St/T'	Controlling the memory function	'UPd Mem'
Controlling the memory function	'SPd Mem'		

3. ➤ Press **[YES]** and **[NO]** simultaneously to restore the pedal function standard value 'Soft' or 'Sust'.

8.7.5 Selection Harmony setting

With this function you can pre-select a harmony setting.

1. ➤ Use [FUNCTION] ▲ or [FUNCTION] ▼ to change into the 'HAR TYPE' menu. The current setting appears on the display.
2. ➤ Use [YES] and [NO] or the jog dial to select the desired parameter:
 - 'Duet'
 - 'Standard Trio'
 - 'Full Chord'
 - 'Rock Duet'
 - 'Country Duet'
 - 'Country Trio'
 - 'Block'
 - '4 Close 1'
 - '4 Close 2'
 - '4 Open'
 - '1+5'
 - 'Octave1'
 - 'Octave2'
 - 'Strum'
 - 'Echo1'
 - 'Echo2'
 - 'Echo3'
 - 'Echo4'
 - 'Tremolo1'
 - 'Tremolo2'
 - 'Tremolo3'
 - 'Tremolo4'
 - 'Trill1'
 - 'Trill2'
 - 'Trill3'
 - 'Trill4'
3. ➤ Press [YES] and [NO] simultaneously to load the standard value 'Duet'.

8.7.6 Equalizer

With this function you can pre-select a certain tone colour.

1. ➤ Use [FUNCTION] ▲ or [FUNCTION] ▼ to change into the [EQ TYPE] menu. The current setting appears on the display.
2. ➤ Use [YES] and [NO] or the jog dial to select the desired presetting:
 - 'Pop'
 - 'Rock'
 - 'Class'
 - 'Jazz'
 - 'Dance'
 - 'Reset'
3. ➤ Press [YES] and [NO] simultaneously to load the standard value 'Reset' (EQ off).

8.7.7 Reverb effect

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

1. Use [FUNCTION] ▲ or [FUNCTION] ▼ to change into the 'Rev TYPE' menu. The current setting appears on the display.
2. Use [YES] and [NO] or the jog dial to select the desired parameter:
 - 'Room1'
 - 'Room2'
 - 'Room3'
 - 'Hall1'
 - 'Hall2'
 - 'Hall3'
 - 'Chr1'
 - 'Chr2'
 - 'Del'
 - 'PanD'
3. Press [YES] and [NO] simultaneously to load the standard value 'Hall1'.

8.7.8 Reverb volume

With this function you can set the Reverb effects volume in a range from 0 to 127.

1. Use [FUNCTION] ▲ or [FUNCTION] ▼ to change into the 'RevLev' menu. The current setting appears on the display.
2. Adjust the effects ratio with the buttons [YES] and [NO] or with the jog dial.
3. Press [YES] and [NO] simultaneously to reset the effects ratio to the standard value (depending on the selected voice).

8.7.9 Chorus effect

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

1. Use [FUNCTION] ▲ or [FUNCTION] ▼ to change into the 'Chr TYPE' menu. The current setting appears on the display.
2. Use [YES] and [NO] or the jog dial to assign the desired parameter:
 - 'Chorus1'
 - 'Chorus2'
 - 'GM Chorus1'
 - 'GM Chorus2'
 - 'Flanger1'
 - 'Flanger2'
 - 'Rotary1'
 - 'Rotary2'
3. Press [YES] and [NO] simultaneously to load the standard value 'GM Chorus2'.

8.7.10 Chorus volume

With this function you can set the Chorus effects volume in a range from 0 to 127.

1. Use **[FUNCTION] ▲** or **[FUNCTION] ▼** to change into the 'ChrLev' menu. The current setting appears on the display.
2. Adjust the effects ratio with the buttons **[YES]** and **[NO]** or with the jog dial.
3. Press **[YES]** and **[NO]** simultaneously to reset the effects ratio to the standard value (depending on the selected voice).

8.7.11 MIDI receive channel

With this function you can determine on which channel the keyboard receives MIDI information from other devices.

1. Use **[FUNCTION] ▲** or **[FUNCTION] ▼** to change into the 'Midi In' menu. The current setting appears on the display.
2. Specify the desired MIDI receive channel using the buttons **[YES]** and **[NO]** or the jog dial.
3. Press **[YES]** and **[NO]** simultaneously to reset channel selection to the standard value 'ALL'.

8.7.12 MIDI send channel

With this function you can determine on which channel the keyboard sends MIDI information to other devices.

1. Use **[FUNCTION] ▲** or **[FUNCTION] ▼** to change into the 'Midi Out' menu. The current setting appears on the display.
2. Specify the desired MIDI send channel using **[YES]** and **[NO]** or the jog dial.
3. Press **[YES]** and **[NO]** simultaneously to reset channel selection to the standard value '001'.

8.7.13 Automatic shutdown

With this function you can specify whether and after what time the automatic shutdown of the keyboard is carried out.

1. Use **[FUNCTION] ▲** or **[FUNCTION] ▼** to change into the 'Power Off' menu. The current setting appears on the display.
2. Use the buttons **[YES]** and **[NO]** or the jog dial to assign one of the following options:
 - '030' (automatic shutdown after 30 minutes)
 - '060' (automatic shutdown after 60 minutes)
 - 'OFF' (automatic shutdown off).
3. Press **[YES]** and **[NO]** simultaneously to activate the presetting '030'.

8.8 Loading / saving user settings

1. ➤ Press *[BANK]*. The display shows the last selected memory bank.
2. ➤ Press *[BANK]* again and specify the desired memory bank 1 ... 8.
3. ➤ Hold down *[STORE]* and simultaneously press one of the *[M1]* to *[M4]* buttons. The current settings are then stored in the respective memory location (M1 to M6). Please note that any data previously stored there will be deleted.
4. ➤ Press one of the *[M1]* to *[M6]* buttons. The saved settings are then loaded from the corresponding memory and replace the current settings thereby.



In O.T.S. mode, no settings can be loaded from the device memory.

8.9 Resetting user settings

Proceed as follows to reset the user settings:

1. ➤ Turn off the keyboard.
2. ➤ When turning it back on again, keep *[STORE]* and *[M1]* pressed.
 - ⇒ All user settings will be reset without further confirmation prompt.

8.10 Deleting stored recordings

Deleting all recordings

Proceed as follows to clear the recording memory:

1. ➤ Turn off the keyboard.
2. ➤ When turning it back on again, keep *[SONG]* and *[RECORD]* pressed.
 - ⇒ All recordings will be deleted without further confirmation prompt.

Deleting certain tracks

Proceed as follows to delete certain tracks:

1. ➤ Hold down *[SHIFT]* and press *[RECORD]* to enable the recording mode.
2. ➤ Use *[YES]* and *[NO]* or the jog dial to select the track you want to delete (accompaniment track *[ACCOMP]* or melody tracks *[MELODY 1]* ... *[MELODY 5]*).
3. ➤ Confirm with *[YES]* or cancel the procedure with *[NO]*.
 - ⇒ All highlighted recordings will be deleted without further confirmation prompt.

9 Operating

9.1 Piano mode

Press *[PIANO]* to activate piano mode. The whole keyboard sounds with normal piano voice.

9.2 Transposing

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

1. ▶ Hold down *[SHIFT]* and press one of the *[TRANSCOPE]* buttons.
⇒ The display shows 'Transpos'.
2. ▶ Use the *[TRANSCOPE]* buttons or the jog dial to adjust the keyboard pitch.
3. ▶ Simultaneously press the *[TRANSCOPE]* buttons or *[YES]* and *[NO]* to restore the default setting (no transposing).

9.3 Playing demo sequences

The demo sequences stored in the device show the sound and the pitch range of the keyboard.

1. ▶ Press *[DEMO]* to start playing the demo sequences in a continuous loop.
2. ▶ Press *[YES]* and *[NO]* to switch between the five demo sequences (see ↪ Chapter 13.4 'Demo list' on page 63).
3. ▶ Press *[DEMO]* again or *[START/STOP]* to stop playing the demo sequences.

9.4 Style playing

The styles stored in the keyboard are used to support your own playing at performances, while practising and recording.

1. ▶ **Playback of the rhythm track**

Press *[STYLE]* to activate style mode.

⇒ The display shows 'STYLE', and the number and name of the selected style.

2. ▶ Use *[YES]* and *[NO]*, the jog wheel or a direct selection button to enable the desired style directly (see [Chapter 13.2 'Styles list' on page 51](#)).

3. ▶ Press *[START/STOP]* to start playback of the rhythm track of the auto accompaniment. Alternatively, press *[SYNC START]* to activate sync start mode and then press a button on the clavature to start playback of the rhythm track of the auto accompaniment.

4. ▶ Press *[START/STOP]* to stop playback of the rhythm track of the auto accompaniment.

5. ▶ **Playback of all accompaniment tracks**

In style mode, press *[CHORD MODE]* to activate chord detection (see [Chapter 9.14 'Chord detection' on page 31](#)).

⇒ The display shows 'A.B.C.'. The clavature is divided into two areas; the left area is the chord area.

6. ▶ Use *[SYNC START]* to enable sync start operation.

7. ▶ Press a key in the chord area.

⇒ The display shows 'FULL RANGE'. Chords are detected on the entire clavature to control the auto accompaniment.

8. ▶ Press *[SYNC START]* and play a chord in the chord area of the keyboard.

⇒ The auto accompaniment is launched for all accompaniment tracks.

9. ▶ Press *[START/STOP]* to first start the rhythm track of the auto accompaniment.

10. ▶ Play a chord in the chord area.

⇒ Playback of all accompaniment tracks for the selected style begins.

9.5 Playing songs

The keyboard offers a choice of 120 songs to accompany your playing at performances, while practising and recording. In addition, five tracks for your own recordings are available.

1. ▶ Press *[SONG]* to start playing the songs in a continuous loop.

2. ▶ Use *[YES]* and *[NO]* or the jog dial to toggle between the stored songs (see [Chapter 13.1 'Song list' on page 49](#)). If the selected file is empty, the display shows the message 'NoFile!' and the song playback will be stopped.

3. ▶ Press *[START/STOP]* to start or stop song playback.

4. ▶ Press *[STYLE]* or *[VOICE]* to exit song mode.

9.6 Metronome

1. ➤ Press *[METRONOME]* to turn the metronome on and off.
2. ➤ Set the required tempo with the two *[TEMPO]* function buttons or the jog dial, see [Chapter 9.7 'Tempo'](#) on page 28.
3. ➤ Set the required time signature via the functions menu, see [Chapter 8.7.2 'Time signature'](#) on page 20.



The metronome is always synchronized with the currently playing style.

9.7 Tempo

All preprogrammed songs, styles and voices, and the metronome function are stored with certain tempo information. These presets can be adjusted at any time.

1. ➤ Press the two *[TEMPO]* function buttons or turn the jog dial during playback or with running metronome to adjust the required tempo in a range from '30' ... '280'.
2. ➤ Press the *[TEMPO]* function buttons simultaneously to reset the tempo to the respective default value.

9.8 Mixer

This menu is used to adjust the volume of the various style elements.

1. ➤ Hold down *[SHIFT]* and press one of the two *[MIXER]* function buttons to open the Mixer menu. The display shows the last selected option, e.g. 'Rhythm_s' and the last setting.
2. ➤ Use *[YES]* and *[NO]* or the jog dial to adjust the volume in a range from '0' ... '127'.
3. ➤ Hold down *[SHIFT]* and repeatedly press one of the two *[MIXER]* function buttons to call up and adjust the following options in succession:
 - 'Rhythm_s'
 - 'Rhythm_m'
 - 'Bass'
 - 'Chord1'
 - 'Chord2'
 - 'Chord3'
 - 'Phrase1'
 - 'Phrase2'
 - 'Upper1'
 - 'Upper2'
 - 'LOWER'
 - 'U-Disk'

9.9 Selecting voices

The keyboard features a selection of 600 realistic voices, see [Chapter 13.3 'Voice list'](#) on page 55.

1. ➤ Press *[VOICE]* or one of the direct selection buttons to activate the last set voice or select a specific voice directly.
 - ⇒ The display shows the name and number of the first right hand voice (main voice), e.g. 'VOICE R1', '001', 'GrandPno'.
2. ➤ Use *[YES]* and *[NO]*, the jog dial or a direct selection button to assign another voice.
 - Press the *[VOICE]* button repeatedly to toggle between the upper and lower voice of a direct selection button.

In dual and split mode, you toggle between the first and second right hand voice and the left hand voice by repeatedly pressing the *[VOICE]* button: 'VOICE R1', 'VOICE R2' and 'VOICE L', see the following chapters on dual mode and split mode.

9.10 Dual mode

In Dual mode, you can play two voices simultaneously.

1. ➤ First, select the first voice as described in section [Chapter 9.9 'Selecting voices'](#) on page 29.
2. ➤ Hold down *[SHIFT]* and press *[DUAL]* to switch to dual mode.
 - ⇒ The display shows the number and description of the second right hand voice, e.g. 'VOICE R2', '186', 'Strings'.
3. ➤ Use *[YES]* and *[NO]*, the jog dial or a direct selection button to assign another voice.
 - Press the *[VOICE]* button repeatedly to toggle between the upper and lower voice of a direct selection button.
 - ⇒ The currently set second voice appears on the display ('Voice R2'). If you now press a key, both voices sound simultaneously.
4. ➤ Hold down *[SHIFT]* again and press *[DUAL]* to exit dual mode.



When the keyboard is split, the Dual mode affects only the keys to the right of the keyboard split point.

9.11 Split mode

With this function you can split the claviature into two areas and assign different voices. By default, the bass voice is left of the split point.

1. ➤ If you wish you can specify your individual split point as described under [Chapter 8.7.3 'Split point'](#) on page 21.
2. ➤ Assign the right hand voice as described in section [Chapter 9.9 'Selecting voices'](#) on page 29.

3. ▶ Hold down *[SHIFT]* and press *[LOWER]* to switch to split mode.
4. ▶ Use *[YES]* and *[NO]*, the jog dial or a direct selection button to assign a voice for the area to the left of the split point (second voice).
 - ⇒ The currently set second voice appears on the display (‘Voice L’). You now have the opportunity to play the keyboard with two different voices.
5. ▶ Press *[LOWER]* again to exit split mode.

9.12 TWINOVA

In TWINOVA mode, the keyboard is divided into two areas with the same voice and the same pitch.

1. ▶ Select the required voice, see [Chapter 9.9 ‘Selecting voices’ on page 29](#).
2. ▶ Hold down *[SHIFT]* and press *[TWINOVA]* to switch to TWINOVA mode.
3. ▶ Specify a split point if necessary, see [Chapter 8.7.3 ‘Split point’ on page 21](#).
4. ▶ If necessary, adapt the Octave area. Hold down *[SHIFT]* and press *[OCTAVE]*.
 - ⇒ The display shows ‘Octave’.
5. ▶ Use *[YES]* and *[NO]* or the jog dial to move the octave area up or down one octave (‘-01’ ... ‘+01’).
Press *[YES]* and *[NO]* simultaneously to restore the default setting ‘000’.
6. ▶ Hold down *[SHIFT]* again and press *[TWINOVA]* to exit the TWINOVA mode.

9.13 Harmony mode

In harmony mode, suitable tones (harmonized) are automatically added to the notes played to create polyphony.

1. ▶ Hold down *[SHIFT]* and press *[HARMONY]* to switch to harmony mode.
 - ⇒ The display shows the *[HARMONY]* symbol and the last selected harmony type, e.g. ‘Duet’.

2. ➤ Select one of the following harmony settings as described in chapter [Chapter 8.7.5 'Selection Harmony setting'](#) on page 22:

- 'Duet'
- 'Standard Trio'
- 'Full Chord'
- 'Rock Duet'
- 'Country Duet'
- 'Country Trio'
- 'Block'
- '4 Close 1'
- '4 Close 2'
- '4 Open'
- '1+5'
- 'Octave1'
- 'Octave2'
- 'Strum'
- 'Echo1'
- 'Echo2'
- 'Echo3'
- 'Echo4'
- 'Tremolo1'
- 'Tremolo2'
- 'Tremolo3'
- 'Tremolo4'
- 'Trill1'
- 'Trill2'
- 'Trill3'
- 'Trill4'

3. ➤ Hold down [SHIFT] again and press [HARMONY] to exit harmony mode.



The Harmony settings Duet, Standard Trio, Full Chord, Rock Duet, Country Duet, Octave, Echo, Tremolo and Trill can be activated at any time. The other settings are only available when the chord recognition is turned on.

9.14 Chord detection

The "Auto Bass Chord" function (A.B.C.) is deactivated by default. Press the [CHORD MODE] button to activate the function. The area to the left of the split point is already known as the chord area. When you now play a chord, both bass and chord voices will sound together.







As the A.B.C. chord detection is based on the root note of the chord, some chords that could be played according to the chord library can not be detected by A.B.C., such as B6, B₆, B₆6(9), B6(9), B_{aug}, B₆aug, B₆m6, Bm6, Adim7, B₆dim7.

Single and multi-finger mode.

If the chord is played on base of the illustration for multi-finger chords below, it will be detected as a 'multi-fingered' chord. If not, it will be detected as a 'single-finger' chord.

■ Single-finger chords

With this method, you can play chords with only one, two or three fingers within the capabilities of the auto accompaniment. Here we show you some examples of single finger chords (C, Cm, C7 and Cm7).

	To play a major chord Press the root note of the chord
	To play a minor chord Press the root note together with the nearest black key to the left of it .
	To play a seventh chord Press the root note together with the nearest white key to the left of it .
	To play a minor seventh chord Press the root notes together with the nearest white and black keys to the left of it (three keys altogether) .

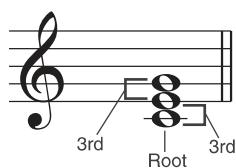


When the A.B.C. function is activated, press the keys to the left of the split point. The chords are detected as single-finger chords.

■ Multi-finger chords

With this method, you can play chords with normal fingering within the capabilities of the auto accompaniment. Here we show you 32 chords using the example of C chords.

0 C	1 C ₆	2 C _{M7}	3 C _{M7} (#11)	4 C _M (9)	5 C _{M7} (9)
6 C ₆ (9)	7 C _{aug}	8 C _m	9 C _{m6}	10 C _{m7}	11 C _{m7} (b5)
12 C _m (9)	13 C _{m7} (9)	14 C _{m7} (11)	15 C _m M ₇	16 C _m M ₇ (9)	17 C _{dim}
18 C _{dim7}	19 C ₇	20 C _{7sus4}	21 C ₇ (b5)	22 C ₇ (9)	23 C ₇ (#11)
24 C ₇ (b13)	25 C ₇ (b9)	26 C ₇ (13)	27 C ₇ (#9)	28 C _{M7aug}	29 C _{7aug}
30 C _{sus4}	31 C ₁₊₂₊₅	The notes in brackets are optional; the chords will also be recognised without them.			



Major third – four half steps (semitones)



Minor third – three half steps (semitones)



■ Chord basics

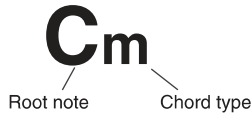
A chord consists of three or more notes played together. The most commonly used chord is the triad consisting of three notes: Root, third and fifth of the corresponding scale. The C major chord for example is formed from the notes C (root), E (the third note of the C major scale), and G (the fifth note of the C major scale). In the C major chord shown, the lowest note is the root (this is the basic form of the chord - if you play other notes of the chord as the lowest note, this is called 'chord inversion'). The root is the central sound of the chord on which the other chord notes are built upon. The interval between adjacent notes and the root determines whether the result is a major or minor third.

■ Chord structure

The lower interval in our triad (between root and third) determines whether the result is a major or minor triad. In addition, we can shift the highest note by a half step up or down to produce two additional chords.

The basic characteristic of the triad remains even if we change the order of the notes to create different inversions. Consecutive chords can be softly connected in a chord progression, e.g. by choosing suitable chord inversions (also called 'voicings').

<p>Major chord</p> <p>C_M</p> <p>Minor 3rd Major 3rd</p>	<p>Minor chord</p> <p>C_m</p> <p>Major 3rd Minor 3rd</p>	<p>Augmented chord</p> <p>C_{aug}</p> <p>Major 3rd Major 3rd</p>	<p>Diminished chord</p> <p>C_{dim}</p> <p>Minor 3rd Minor 3rd</p>
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■ Chord names

Chord names will tell you everything you need to know about a chord. Through the chord name, you know the root, whether it is a major, minor, or diminished chord, whether a large or flatted seventh is needed and what changes or tensions are used - all at a glance.

■ Some chord types

9.15 Chord dictionary

The Chord dictionary is basically a built-in 'Chord book' assisting you to find the right tones of a chord if you e.g. know only the chord name, but not how to play it.

1. ▶ DICT 1 (chord learning mode)

Hold down *[SHIFT]* and press *[DICT.]* to call up the 'DICT.1' mode. In this mode, the keys from C4 on are used to assign the chord type, and the keys from C6 to assign the root note. If you have pressed the keys for chord type and root note, the display shows the chord name and the individual notes in the notation system.

For example, If you want to play a Cm7 chord, press the C6 key (root note C in the Cm7 chord). You will hear no sound, but the root note is displayed.

Press the A4 key (chord type for minor-seventh chord, 'm7'). You will hear no sound, but the chord name and the notes you should play for the specified chord appear in the display.

2. ▶ DICT 2 (chord testing mode)

Hold down *[SHIFT]* again and press *[DICT.]* to call up the 'DICT.2' mode. The display shows a randomly generated chord name, but not its individual notes in the notation system. If you play the right chord within three seconds, the next randomly generated chord name appears. If this does not happen, the individual notes of the chord in the notation system appear automatically in the display.

In the chord dictionary, the 12 root notes and 24 chord types are presented as follows:

Key names	Root note	Key names	Root note
C6	C	F#6	F#/G _b
C#6	C#/D _b	G6	G
D6	D	A _b 6	G#/A _b
E _b 6	D#/E _b 6	A6	A

Key names	Root note	Key names	Root note
E6	E	B _b 6	A [#] /B _b
F6	F	B6	B

Key names	Chord type	Key names	Chord type
C4	M	C5	7 _b 9
C [#] 4	M(9)	C [#] 5	7(9)
D4	6	D5	7([#] 9)
E _b 4	mM7	E _b 5	7 _b 13
E4	M7	E5	7(13)
F4	m	F5	7([#] 11)
F [#] 4	m(9)	F [#] 5	dim7
G4	m6	G5	dim
A _b 4	m7(9)	A _b 5	7aug
A4	m7	A5	aug
B _b 4	m7 _b 5	B _b 5	7sus4
B4	7	B5	sus4

9.16 Auto accompaniment

Auto accompaniment functions

The accompaniment function is controlled via four parameters: INTRO, MAIN (A, B), FILL (A, B) and ENDING.

1. ► INTRO

To insert an intro, press *[INTRO/ENDING]* before beginning to play. Depending on the selected Style the rhythm starts with two to four bars, followed by the main part.

2. ► MAIN (A, B)

The main part consists of an accompaniment pattern with different sections and is repeated until you enter a new song section (FILL or ENDING). The individual sections of the main part are selected via *[A]* and *[B]*.

3. ► FILL (A, B)

Use *[A]* and *[B]* to insert two different fill bars. Each fill measure will be repeated until you release the button.

4. ► ENDING

If you press *[INTRO/ENDING]* auto accompaniment is activated, an ending part suitable for the accompaniment is started, finishing the song.

Playing with auto accompaniment

1. ▶ Select the required style (↪ Chapter 9.4 'Style playing' on page 27).
2. ▶ Use *[CHORD MODE]* to enable chord recognition.
3. ▶ Use *[SYNC START]* to enable sync start operation.
4. ▶ Press *[INTRO/ENDING]* to start the song with an intro.
 - ⇒ The letter 'A' flashes on the display.
5. ▶ The accompaniment starts as soon as you press a key in the chord area.
6. ▶ If you wish you can use *[FILL B]* to insert fill measures as a transition into main part B.
 - ⇒ The letter 'B' flashes on the display.
7. ▶ Press *[INTRO/ENDING]* again to conclude the song with an ending.

9.17 Accompaniment track volume, muting

This function allows you to adjust the volume of the accompaniment track to the volume of the claviature or to mute the accompaniment track.

1. ▶ **Setting the accompaniment track volume**

Hold down *[SHIFT]*.

Use *[ACCOMP]* to adjust the accompaniment track volume in a range from 0 ... 127.

2. ▶ **Muting the accompaniment track**

Hold down *[SHIFT]*.

Press the two *[ACCOMP]* function buttons simultaneously to mute the accompaniment track. The display shows 'oFF'.

3. ▶ **Re-enabling the accompaniment track**

Hold down *[SHIFT]* and simultaneously press the two *[ACCOMP]* function buttons to re-enable the accompaniment track.

⇒ The display returns to the set volume level of the accompaniment track, e.g. '100'.

9.18 Fade in, Fade out

With this function you can increase the volume of the accompaniment track gradually to the preset volume of the selected Style (Fade in) and decrease it again at the end of the piece (Fade Out).

1. ▶ Hold down *[SHIFT]* and press *[FADE]* before starting the style.

⇒ The volume of the Style is raised within ten seconds from zero to the preset value.

2. ▶ Hold down *[SHIFT]* and press *[FADE]* at the end of the piece.

⇒ The volume of the Style is lowered within ten seconds to zero.

9.19 One Touch Setting

One Touch Setting (O.T.S. or one-key operation) is a convenient function that allows you to immediately reconfigure all settings with just one single key press. This is about rhythm-based compilations of keyboard voices. With this function, four parameter types (M1 to M4) can be loaded.

1. ➤ Press *[O.T.S.]* to activate the function. The display shows 'OTS'. Press one of the *[M1]* to *[M4]* buttons, and the keyboard will load the corresponding parameter types that match the current style. Chord recognition will automatically be switched on.
2. ➤ Press one of the *[M1]* to *[M4]* buttons to load one of the available presets.
3. ➤ Press the *[O.T.S.]* button again to deactivate O.T.S. mode.
4. ➤ The default parameters stored in O.T.S. are:
 - Track on / off
 - Change voice R1, R2, L
 - Volume R1, R2, L
 - Chorus level voice R1, R2, L
 - Reverb level voice R1, R2, L

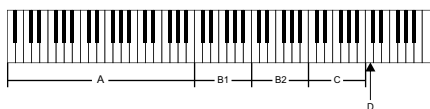
9.20 Performance Assistant

The 'Performance Assistant' is a playing aid, which allows you to simulate different keyboards on the claviature.

1. ➤ Press *[PERFORM]* to activate the playing aid.
GUITAR mode is enabled by default. Use the jog dial to select a file.
2. ➤ Adjust the tempo using the *[TEMPO]* buttons.
3. ➤ Adjust the time signature with *[YES]* and *[NO]*.

9.20.1 GUITAR mode

In this mode, you can simulate a guitar sound on the claviature. The table shows the various play areas.



Chord area A

This area includes the keys A0 to B3 of the claviature.

The chord type appears in the display. The root of the guitar chord sounds.

Area B1

This area includes the white keys C4 to B4 of the claviature.

Once the chord type is displayed, you can play several figures of broken chords with the white keys in this area. While playing, you also have the possibility to vary the chord played in the chord area.

Area B2

This area consists of the white keys C5 to A6 of the claviature.

Once the chord type is displayed, you can play a solo track with the white keys in this area. While playing, you also have the possibility to vary the chord played in the chord area.

Rhythm area C

This area consists of the white keys C6 to G6 of the claviature.

Once the chord type is displayed, you can play a rhythm track with the white keys in this area. While playing, you also have the possibility to vary the chord played in the chord area.

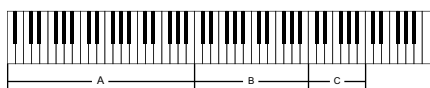
Shift D

Button C7. Press this button to shift upwards.

9.20.2 PIANO mode

After enabling the playing aid, use the jog dial to change to the PIANO mode.

In this mode, the entire claviature sounds with the piano voice. The table shows the various play areas.



Play basic chords in area A and an accompanying melody in areas B and C an.

Keys A6, B6 and C7 give you the opportunity to complete a phrase with a suitable ending.

9.21 Rehearsal songs

The keyboard offers 120 practising songs, where you can mute the right hand voice and play this part yourself.

1. ▶ Playing and stopping practising songs

Press *[SONG]* to enter the playback mode for practising songs. 'SONG' appears on the display and all practising songs are played in an endless loop.

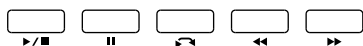
Press *[START/STOP]* to stop the currently playing practising song. This will not exit the 'SONG' mode for practising song playback.

2. ▶ Single loop

If you press *[START/STOP]* again the current song is repeated in an endless loop until you press *[START/STOP]* again.

3. ▶ Selecting a practising song

Use the jog dial or *[YES]* and *[NO]* to select the required practising song. If you select a new practising song, the display shows first the title in running text, then the abbreviation.



4. ▶ Playback control

Pre-count

An Intro of different length will be played before playback begins. The bar display starts with a negative value. The practising song starts with bar 1.

Fast-forward, rewind, pause

Hold down ▶▶ during playback to fast-forward the practising song. Use ◀◀ to rewind bar by bar. Press ■ to pause playback and press ■ again to continue the playback at the same position. Press [START/STOP] to start the practising song from the beginning.

Repeat function

While the practising song is playing you can set two loop marks with ⇄. Press the button at the desired start point of the loop and again at the end point.

5. ▶ To exit practising song playback press any direct select or function button.

Lesson mode

When practising, it is mainly important to play the right **notes** at the right **time**. In this mode you can check your progress. Press [LESSON] in SONG mode to activate lesson mode. There are three training stages. Use [R] and [L] to specify which hand you want to practise. If you don't select a hand, the right hand will automatically be selected.

Lesson 1 - playing in time

Press [LESSON] to enter lesson mode. 'LESSON 1' appears on the display. In this mode, it is only rated whether you play the notes at the right time, but not whether you hit the right notes.

1. ▶ Press [START/STOP] to start practising.
2. ▶ If you selected 'R', the right hand voice is muted and you have to play the right hand yourself. As long as you are in time, you will hear the right hand voice. If you selected 'L', the left hand voice is muted and you have to play the left hand yourself. As long as you are in time, you will hear the left hand voice. If both 'L' and 'R' are selected, the voices for both hands are muted. You then have to play in time with both hands.
3. ▶ After completing the exercise, you will learn the result.

Lesson 2 - hitting the right notes

Press [LESSON] again to enter the lesson mode 2. 'LESSON 2' appears on the display. In this mode, it is only rated whether you hit the right notes, but not whether you play them at the right time. The practising song continues only when you play the right note.

1. ▶ Press [START/STOP] to start practising.
2. ▶ After completing the exercise, you will learn the result.

Lesson 3 - hitting the right notes at the right time.

Press [LESSON] again to enter lesson mode 3. 'LESSON 3' appears on the display. In this mode, it is rated whether you play the right notes at the right time. The practising song continues only when both is correct.

1. ➤ Press [START/STOP] to start practising.
2. ➤ After completing the exercise, you will learn the result.

9.22 Recording function

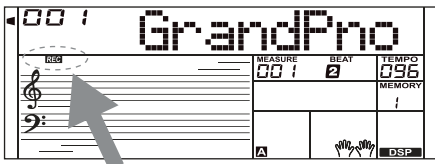
You can record your own songs with the keyboard and save up to five recordings as user songs in the internal memory. Unsaved recordings are retained in the clipboard memory after switching the keyboard off.

The recording are stored in the memory register 121 – 125.

9.22.1 Recording preparation

Before starting the recording, you have to select a user song for saving the recording.

1. ➤ Hold down [SHIFT] and press [RECORD] to activate recording mode.
 - ⇒ The display shows the default name of the first user song 'RecSong1' and the sequence number.
2. ➤ Press [YES] and [NO] or turn the jog dial to select the user song you want to record.
3. ➤ Hold down [SHIFT] and press [RECORD] again to enable recording on the keyboard.
 - ⇒ The 'REC' icon appears on the display.
4. ➤ Recording starts as soon as you play the first note or chord or press [START/STOP].



If you select the accompaniment track and A.B.C. (see [Chapter 9.14 'Chord detection' on page 31](#)) is open, play an effective chord in the left area. Press [CHORD MODE] again while A.B.C. is open to enable chord recognition for the entire claviature or press [START/STOP] to start recording.

9.22.1.1 Setting accompaniment/metronome, voice, tempo and tracks

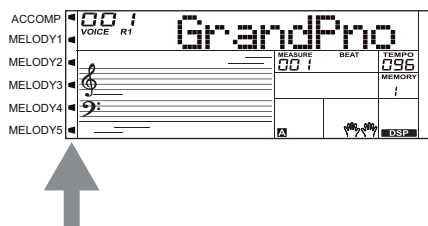
1. ➤ If desired, select an accompaniment/metronome or voice and set the recording tempo.
2. ➤ Hold down [SHIFT] and press [ACCOMP] (accompaniment track) or [MELODY1] ... [MELODY5] (melody tracks) to set the required recording track. The default is 'Melody1'.



You have the option to record the accompaniment track along with a melody track. If you want to record with accompaniment function or a style, select again the desired chord recognition after setting the recording mode.

If you want to use a metronome for recording, enable previously the metronome and set the desired tempo.

9.22.2 Recording



1. ➤ The availability of the tracks is indicated by the icons on the left edge of the display:

- Icon flashing: selected track, existing data can always be overwritten.
- Icon lights permanently: Track contains data and can play along to the recording.
- Icon off: Track contains no data and cannot be played.

2. ➤ Use the corresponding buttons to select the track [ACCOMP] or [MELODY1] ... [MELODY5].



During recording the device selects automatically the next empty track next to the data containing track. If all tracks contain data, select 'Melody 1' to save your recording.

9.22.3 Stopping recording

To stop recording, hold down [SHIFT] and press [RECORD]. The display shows 'Wait...' (depending on the length of the recording) until the recording is saved.

When the full memory capacity has been reached, the recording is terminated automatically and the recorded data is saved. While storing, the indicator flashes quickly. The display shows 'Rec_Full'.

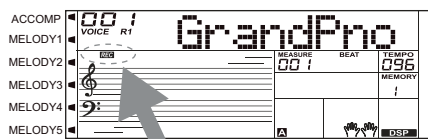
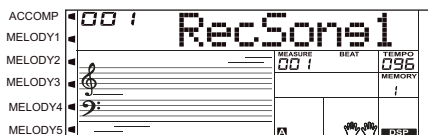
After saving the device plays the recording in endless loop. Press [START/STOP] to stop playback.

9.22.4 Playing a recording

Use [SONG] to switch to normal playback mode and select the recording for playback (↩ Chapter 9.5 'Playing songs' on page 27).

9.22.5 Delete recording

Deleting certain tracks



1. ➤ Hold down [SHIFT] and press [RECORD].

2. ➤ Use the jog dial to select one of the five user songs from which you want to delete one or more tracks.

3. ➤ Hold down [SHIFT] again and press [RECORD].

⇒ The 'REC' icon appears on the display.

4. ➤ Hold down [SHIFT] and keep [RECORD] pressed for two seconds.

⇒ The display shows 'Delete?'.

5. ➤ Release *[SHIFT]* and *[RECORD]*. Hold down *[SHIFT]* and press *[ACCOMP]* (accompaniment track) or *[MELODY1]* ... *[MELODY5]* (melody tracks) to select the required recording track you want to keep.

The icons on the left edge of the display indicate which tracks should be kept or deleted:

- Icon on: Track will be deleted.
- Icon off: Track will be kept.

6. ➤ Confirm with *[YES]* to delete the track.

⇒ All data on the selected track will be deleted.

7. ➤ To cancel the process press *[NO]*.

⇒ The device returns to state Recording preparation without deleting data.

Deletes all user songs

First switch off the device to delete all user songs.

- Hold down *[RECORD]* and *[SONG]* simultaneously and switch on the device.

⇒ All user songs will be deleted without further confirmation prompt.

9.23 MIDI functions

MIDI stands for 'Musical Instrument Digital Interface' and represents the standard interface between a computer and electronic instruments.

You can exchange MIDI data with other MIDI devices via the MIDI and USB interfaces of the keyboard.



The exchange of MIDI data via the USB interface is only possible with WIN 32-bit systems.

9.24 USB storage medium

The keyboard supports USB flash drives with a capacity from 16 MB to 32 GB that are formatted using the FAT 16/32 file system.

Connect a suitable USB flash drive to the keyboard and press *[USB DEVICE]* to enter the USB menu. If the flash drive was correctly initialised the display shows 'Play'. If an error occurs the display shows 'DiskErr!'.



In memory mode, the 'MMKD' folder is automatically created for all user data.

*During MIDI playback, you can adjust the volume using *[MIXER]* and *[YES]*/*[NO]*.*

9.24.1 USB stick playback

1. ➤ Connect the USB stick with the keyboard and open the USB menu.

Use the jog dial to highlight the 'Play' option.

2. ➤ Confirm with *[YES]*.
⇒ The display shows the available directories.
3. ➤ Use the jog dial to highlight the required directory and confirm with *[YES]* to open it.
4. ➤ Use the jog dial to highlight the required MIDI file and start or stop playback with *[START/STOP]*.

9.24.2 Loading data from USB stick

1. ➤ Connect the USB stick with the keyboard and open the USB menu.
Use the jog dial to highlight the 'Load' option.
2. ➤ Confirm with *[YES]*.
⇒ The display shows the available options: Load a song ('LoadSong'), load a style ('LoadSty') and load user settings ('LoadMem').
3. ➤ Use the jog dial to highlight the required option and confirm with *[YES]*.
4. ➤ Use the jog dial to highlight the song, style or user settings to be loaded and start the procedure with *[YES]*.
5. ➤ You can cancel the process at any time with *[NO]*.

9.24.3 Save data to USB stick

1. ➤ Connect the USB stick with the keyboard and open the USB menu.
Use the jog dial to highlight the 'Save' option.
2. ➤ Confirm with *[YES]*.
⇒ The display shows the available options: Save song ('SaveSong'), save style ('SaveSty') and save user settings ('SaveMem').
3. ➤ Use the jog dial to highlight the required option and confirm with *[YES]*.
4. ➤ Use the keyboard of the device to enter a file name and confirm again with *[YES]*.
5. ➤ You can cancel the process at any time with *[NO]*.

9.24.4 Deleting all data on a USB stick

1. ➤ Connect the USB stick with the keyboard and open the USB menu.
Use the jog dial to highlight the 'Delete' option.
2. ➤ Confirm with *[YES]*.
⇒ The display shows the available options: Delete song ('UserSong'), delete style ('UserSty') and delete user settings ('UserMem').
3. ➤ Use the jog dial to highlight the required option and confirm with *[YES]*.
4. ➤ Use the jog dial to highlight the required file and confirm with *[YES]*.
5. ➤ Confirm the confirmation prompt with *[YES]* to delete the data.
6. ➤ You can cancel the process at any time with *[NO]*.

9.25 Resetting to factory defaults

Proceed as follows to restore the factory default settings:

1. ▶ Turn off the keyboard.
2. ▶ When turning it back on again, keep the buttons *[YES]* and *[NO]* pressed.
 - ⇒ All user songs and settings are reset or deleted without further confirmation prompt. The display shows 'Loading!'.

If you only want to delete the stored user settings but want to keep your own recordings in the memory, proceed as follows:

1. ▶ Turn off the keyboard.
2. ▶ When turning it back on again, keep *[STORE]* and *[M1]* pressed.
 - ⇒ All user settings will be deleted without further confirmation prompt.

If you only want to delete your own recordings but want to keep your changed user settings in the memory, proceed as follows:

1. ▶ Turn off the keyboard.
2. ▶ When turning it back on again, keep *[SONG]* and *[RECORD]* pressed.
 - ⇒ All recordings will be deleted without further confirmation prompt.

10 Technical specifications

Input connections	Power supply	Socket for connecting the power adapter
	USB port	USB type B
	MIDI interface	DIN socket, 5-pin
	AUX in	6.35-mm jack socket
	Microphone	6.35-mm jack socket
	Pedal box	6.35-mm jack socket
Output connections	MIDI interface	DIN plug, 5-pin
	AUX out	6.35-mm jack socket
Display	Multi-functional LCD	
Keyboard	88 weighted keys with hammer action Touch sensitivity adjustable in four steps (off, soft, normal, hard)	
Sounds	Quantity	600
	Polyphony	128-voice
	Layer	Left, right 1, right 2
	Functions	Split, duo (Twinova)
Styles	Quantity	230
	Control	[START/STOP], [SYNC START], [INTRO/ENDING], [MAIN A], [MAIN B], [FILL IN A], [FILL IN B], [A.B.C.], [FADE IN], [FADE OUT], [ACCOMP VOLUME]
	O.T.S.	Built-in
	Chord types	32
Effects	DSP	on/off
	Master EQ	6 presets
	Reverb	10 types, 128 levels
	Chorus	8 types, 128 levels
Accompaniment function	Built-in	
Harmony mode	26 types	
Pitch adjustment	Transposing	-12 ... +12
	Octaving	-1 ... +1
	Tuning	-50 ... +50
Functions	Mixer	12 tracks
	Memory for user settings	8 banks, each with 6 memory slots
	Pedal support	Sustain
	Pitch bend wheel	Built-in
	Metronome	0, 2 ... 9
	Tempo	30 ... 280

Technical specifications

	Chord dictionary	Built-in
Pedals	Sustain	
Demo and practise songs	Practise songs	120
	Sequencer	5 user songs (5 melody tracks, 1 accompaniment track)
	Demo songs	5
Speakers	2 × 10 W	
	2 × 20 W	
Volume	+90 dB max.	
Power supply	External power adapter, 100 - 240 V ~ 50/60 Hz	
Operating voltage	12 V $\overline{\text{---}}$ / 2,000 mA, centre positive	
Operating system	Windows® 8 and later, Mac OS X® 10.8 and later	
Dimensions (W × H × D)	1,365 mm × 137 mm × 366 mm	
Weight	13.8 kg	
Colour	Black	
Ambient conditions	Temperature range	0 °C...40 °C
	Relative humidity	20%...80% (non-condensing)

Further information

Design	Black
Surface	Matt
Wooden keyboard	No
Ivory-feel keyboard	No
Auto accompaniment	Yes
Number of rhythms	230
Polyphony	128
Sounds	600
Storage medium	USB MIDI

11 Plug and connection assignment

Introduction

This chapter will help you select the right cables and plugs to connect your valuable equipment in such a way that a perfect sound experience is ensured.

Please note these advices, because especially in 'Sound & Light' caution is indicated: Even if a plug fits into the socket, an incorrect connection may result in a destroyed power amp, a short circuit or 'just' in poor transmission quality!

Balanced and unbalanced transmission

Unbalanced transmission is mainly used in semi-professional environment and in hifi use. Instrument cables with two conductors (one core plus shielding) are typical representatives of the unbalanced transmission. One conductor is ground and shielding while the signal is transmitted through the core.

Unbalanced transmission is susceptible to electromagnetic interference, especially at low levels, such as microphone signals and when using long cables.

In a professional environment, therefore, the balanced transmission is preferred, because this enables an undisturbed transmission of signals over long distances. In addition to the conductors 'Ground' and 'Signal', in a balanced transmission a second core is added. This also transfers the signal, but phase-shifted by 180°.

Since the interference affects both cores equally, by subtracting the phase-shifted signals, the interfering signal is completely neutralized. The result is a pure signal without any noise interference.

1/4" TS phone plug (mono, unbalanced)



1	Signal
2	Ground, shielding

1/4" TRS phone plug (mono, balanced)



1	Signal (in phase, +)
2	Signal (out of phase, -)
3	Ground

12 Troubleshooting

In the following we list a few common problems that may occur during operation. We give you some suggestions for easy troubleshooting:

Symptom	Remedy
No sound when playing the keyboard.	Check the position of the volume control. Check if headphone output 2 has a headphone connected. Check the mixer's volume setting R1 / R2 / L.
Noise when using a mobile phone.	Do not place the turned on mobile phone on the keyboard. Keep a sufficient distance from the keyboard when using a mobile phone.
Auto accompaniment does not start with sync start.	The automatic start-up of the auto accompaniment along with sync start function only works when you play a piano key in the left hand area.
Harmony mode can not be activated.	Check whether a drum kit is assigned to the R1 voice. In this case, the harmony mode can not be activated.
Keyboard is not detected by the software when connected to a computer.	Check the USB cable for correct connection. Connect the USB cable to another USB port on the computer.

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

13 Appendix

13.1 Song list

No.	Name	Display	No.	Name	Display
FOLK & COUNTRY			032	Danny Boy	DannyBoy
001	Toccata	Toccata	033	Ich Liebe Dich	LieDich
002	Carry Me Back To Old Virginny	Virginny	034	Wiegenlied 2	Wieglied2
003	El Condor Pasa	ElCondor	035	Spanish Serenade	Serenade
004	Traumerei	Traumere	036	Piano Concerto	Concerto
005	Aloha Oe	AlohaOe	037	Piano Concerto 2	Concrcto2
006	Greensleeves	Sleeves	038	Madame Butterfly	Madame
007	Home Sweet Home	SwetHome	039	Invitation To The Dance	ToDance
008	Heidenroslein	Heidenro	040	Wiegenlied 3	Wieglied3
009	Long Long Ago	LongAgo	041	Jingle Bells	JingBell
010	Die Lorelei	Lorelei	042	Joy To The World	JoyWorld
011	Over The Waves	OverWave	043	La Paloma	LaPaloma
012	My Darling Clementine	Clemtine	044	My Bonnie	MyBonnie
013	Gwine To Run All Night	Gwine	045	La Reine De Saba	Saba
014	Symphony No.6 "Pathetic"	Sympony6	046	La Cucaracha	Cucarach
015	Oh! Susanna	Susanna	047	Little Brown Jug	BrownJug
016	Prelude Op.28 No.15	Prelude	048	Battle Hymne Of The Republic	BatlHyme
017	The House Of The Rising Sun	RiseSun	049	Yellow Rose Of Texas	YellRose
018	Menuet	Menuet	050	The Wabash Cannon Ball	CannBall
GOLDEN & POP			051	Annie Laurie	AnnieLa
019	Vaslse Des Fleurs	Fleurs	052	Turkish March	Turkish
020	Fruhlingsstimmen	Fruhling	053	An Die Musik	Musik
021	Frohlicher Landmann	Landmann	054	Lieder Ohne Worte Op.62 No.6	Lieder
022	Are You Lonesome Tonight?	Lonesome	055	Red River Valley	RedRiver
023	Toy Symphony	ToySymph	056	Die Forelle	Forelle
024	Auld Lang Syne	LangSyne	057	Symphony No. 94 "Suprise"	No. 94
025	Ave Maria	AveMaria	058	Polonaise	Polonais
026	Tales Of Hoffman	Hoffman	059	Rondeau	Rondeau
027	La Donne Mobile	DoneMble	060	Moments Musicaux	Musicaux
028	Serenata	Serenata	061	Silent Night	SltNight
029	Bridal March	Bridal	062	Moldau	Moldau
030	Can't Help Fallin' In Love	InLove	063	Summertime	Summer
031	Chanson Du Toreador	Toreador	064	Dreaming Of Home And Mother	Dreaming

Appendix

No.	Name	Display	No.	Name	Display
065	Ring Ring De Banjo	DeBanjo	093	Wiegenlied	Wiegenli
066	Der Lindenbaum	DerLinde	094	Mov. 2 Adagio Non Troppo Piano Sonata No. 9 In D	Sonata9
067	Zigeunerweisen	Zigeuner	095	Piano Sonata No. 11 In A	Sonata11
068	The Maiden's Prayer	Prayer	096	Prelude In C	Prelude
069	Fur Elise	FurElise	097	Chinese Dance	ChDance
070	Der Freischutz	DerFreis	098	Emperor Waltz	Emperor
071	Maria! Maria!	Maria!	099	March Militaire	Militair
CLASSICAL			100	Symphony No. 40	Symphony
072	Waves Of The Danube	Danube	PIANO		
073	Santa Lucia	SantaLuc	101	Hanon Piano Fingering 1	Hanon1
074	Solveig's Song	Solveig	102	Hanon Piano Fingering 2	Hanon2
075	Piano Sonatan No. 8 In C Minor (Pathetique)	Patheque	103	Hanon Piano Fingering 3	Hanon3
076	Brahms Waltz	BrmsWltz	104	Hanon Piano Fingering 4	Hanon4
077	Aida	Aida	105	Hanon Piano Fingering 5	Hanon5
078	Carmen-Prelude	Carmen	106	Basic Tutorial Beyer Piano 12	Beyer12
079	L'Arlesienne	L'Arlesi	107	Basic Tutorial Beyer Piano 13	Beyer13
080	Ungarische Tanz	Uungaris	108	Basic Tutorial Beyer Piano 14	Beyer14
081	Mazurka	Mazurka	109	Basic Tutorial Beyer Piano 15	Beyer15
082	Pizzicato Polka	Polka	110	Basic Tutorial Beyer Piano 18	Beyer18
083	Menuett	Menuett	111	Cuckoo	Cuckoo
084	Rigoletto	Rigoletto	112	Basic Tutorial Beyer Piano 21	Beyer21
085	Serenade	Serenade	113	Basic Tutorial Beyer Piano 29	Beyer29
086	Song Without Words	SOngNoWd	114	Butterfly	Buterfly
087	Swan	Swan	115	Basic Tutorial Beyer Piano 45	Beyer45
088	The Dying Swan	DyingSwn	116	Christmas Eve	XmasEve
089	Swan Lake Valse	SwnWalse	117	Basic Tutorial Beyer Piano 50	Beyer50
090	The Happy Farmer	HpFarmer	118	Basic Tutorial Beyer Piano 52	Beyer52
091	The Sleeping Beauty	SleepBty	119	Basic Tutorial Beyer Piano 55	Beyer55
092	La Traviata	LaTravia	120	Basic Tutorial Beyer Piano 59	Beyer59

13.2 Styles list

No.	Name	Display	No.	Name	Display
8BEAT			032	Pop Dance 1	PopDanc1
001	8Beat Ballad	8BtBld	033	Pop Fusion	PopFusn
002	8Beat Piano	8BtPiano	034	Analog Night 1	AnalgNt1
003	8Beat 1	8Beat1	035	6/8 Pop	6/8Pop
004	Guitar Pop 1	GtPop1	036	Brit. Pop 1	BritPop1
005	8Beat Hip Hop	8BtHiHop	037	Brit. Pop 2	BritPop2
006	8Beat Blues Rock	8BtBluRk	038	Pop Hit	PopHit
007	8Beat 2	8Beat2	039	Fusion Shuffle	FusShufl
008	Sweet Beat	SweetBt	040	Analog Night 2	AnalgNt2
009	8Beat 3	8Beat3	041	Guitar Pop 3	GtPop3
010	Rhythm&Beat 2	Rhy&Bt2	042	Pop Beat	PopBeat
16BEAT			043	Soft Beat	SoftBeat
011	16Beat 1	16Beat1	044	60's Pop	60'sPop
012	16Beat Funk 1	16BtFuk1	045	Sting Latin	StigLatn
013	16Beat Ballad 1	16BtBld1	046	R&B Ballad 1	R&BBld1
014	16Beat R&B	16BtR&B	047	Guitar Ballad	GtBallad
015	Pop 16Beat 1	Pop16Bt1	048	Ballad Rock	BaldRock
016	16Beat Funk 2	16BtFuk2	049	Piano Pop	PianoPop
017	16Beat Dance	16BtDanc	050	Soft Ballad	SoftBald
018	Pop 16Beat 2	Pop16Bt2	051	Natural Ballad	NatulBld
019	16Beat 2	16Beat2	052	Love Ballad	LoveBald
020	Pop 16Beat 3	Pop16Bt3	053	Easy Ballad	EasyBald
021	Pop 16Beat 4	Pop16Bt4	054	Miami Folk	MiamiBld
022	Modern 16Beat	Modr16Bt	055	Slow Ballad	SlowBald
023	16Beat Hot	16BtHot	056	Folk Ballad	FolkBald
024	16Beat Modern	16BtModr	057	Pop Ballad 1	PopBald1
025	16Beat Funk 3	16BtFuk3	058	Pop Ballad 2	PopBald2
026	16Beat 3	16Beat3	059	EP Ballad	EPBallad
027	Cool Beat	CoolBeat	060	New R&B Ballad	NewRBBld
028	16Beat Ballad 2	16BtBld2	ROCK		
029	16Beat 4	16Beat4	061	Rock	Rock
030	Pop Shuffle	PopShfl	062	New Wave	NewWave
POP & BALLAD			063	Ska	Ska
031	Pop Rock 1	PopRock1	064	Pop Rock 2	PopRock2

Appendix

No.	Name	Display	No.	Name	Display
065	Slow Rock	SlowRock	098	Down Beat	DownBeat
066	70's Rock&Roll	70'sRock	099	Progressive	Progress
067	Folk Rock	FolkRock	100	Rap 1	Rap1
068	Soft Rock	SoftRock	101	Disco	Disco
069	Old Rock	OldRock	102	70's Disco	70'sDisc
070	Easy Rock	EasyRock	103	Club Dance	ClubDanc
071	New Shuffle	NewShufl	104	Euro Dance	EuroDanc
072	Rock Hip Hop	RkHipHop	105	Garage	Garage
073	Rock&Roll 1	R'N'R1	SOUL & FUNK		
074	Rock Shuffle	RockShfl	106	Funk 1	Funk1
075	Rock&Roll 2	R'N'R1	107	Classic Funk	ClasFunk
BALLROOM			108	Jay R&B	JayR&B
076	Tango 1	Tango1	109	Gospel Swing	GopSwing
077	Spain Matador	Matador	110	Gospel	Gospel
078	Twist 1	Twist1	111	Funk 2	Funk2
079	Twist 2	Twist2	112	Electric Funk	ElecFunk
080	Big Band Fox	BandFox	113	Groove Funk	GrooveFk
081	Tango 2	Tango2	114	Rubber Funk	RubberFk
082	Slow Fox	SlowFox	115	Cool Funky	ColFunky
083	Slow Waltz 1	SlowWlz1	116	Jazz Funk	JazzFunk
084	Swing Fox	SwingFox	117	Groove	Groove
085	Salsa 1	Salsa1	118	Soul	Soul
086	Cha Cha 1	ChaCha1	119	Hip Hop Soul	HipHopSl
087	Cha Cha 2	ChaCha2	120	Hip Hop Beat	HipHopBt
088	Beguine 1	Beguine1	121	R&B	R&B
089	Beguine 2	Beguine2	122	British Soul Pop	BritSoul
090	Rumba 1	Rumba1	123	Latin Jazz 1	LatinJz1
091	Samba 1	Samba1	124	Big Band 1	BigBand1
092	Samba 2	Samba2	125	Dixieland 1	Dixland1
093	Jive	Jive	126	Guitar Swing 1	GtSwing1
094	Fox Trot	FoxTrot	127	Broadway Big Band	BwayBand
DANCE			128	Swing	Swing
095	Techno 1	Techno1	129	Latin Jazz 2	LatinJz2
096	Hip Hop 1	HipHop1	130	Fusion	Fusion
097	House 1	House1	131	Acid Jazz	AcidJazz

No.	Name	Display	No.	Name	Display
132	Cool Jazz Ballad	CoolJzBd	165	English Waltz	EngWaltz
133	Swing Shuffle	SwingSfl	166	German Waltz	GemWaltz
134	Big Band Medium	BandMid	167	Italian Mazurka	ItaMazuk
135	Ragtime	Ragtime	168	Mexico Waltz	MexWaltz
COUNTRY			169	Vienna Waltz	VinaWltz
136	Country Pop 1	CntyPop1	170	Slow Waltz 2	SlwWltz2
137	Bluegrass 1	Blugras1	171	Jazz Waltz	JazzWltz
138	8Beat Country	8BtCnty	172	Polka	Polka
139	Modern Country	ModrCnty	173	6/8 March	6/8March
140	Country Pop 2	CntyPop2	174	German Polka	GemPolka
141	Bluegrass 2	Blugras2	175	Party Polka	PtyPolka
142	2/4 Country	2/4Cntry	176	Army March	ArmMarch
143	Country Quick Steps	QuickStp	177	March	March
144	Country Folk	CntyFolk	178	US March	USMarch
145	Country Shuffle	CnyShufl	179	French Musette	FMusette
LATIN & LATIN DANCE			180	Mazurka	Mazurka
146	Samba 3	Samba3	WORLD		
147	Bossa Nova	BosaNova	181	Enka Ballad	EnkaBald
148	Latin	Latin	182	Laendler	Laendler
149	New Reggae	NewRegga	183	Hawaiian	Hawaiian
150	Reggae Dance	DanRegga	184	Sirtake	Sirtake
151	Paso Doble	Pasodobl	185	Dangdut	Dangdut
152	Lite Bossa	LteBossa	186	6/8 Flipper	6/8Flipp
153	Latin Rock	LatinRck	187	New Age	NewAge
154	Beguine 3	Beguine3	188	Tarantella	Tarantel
155	Slow Bolero	SIBolero	189	Scottish	Scottish
156	Disco Samba	DscSamba	190	Norteno	Norteno
157	Mambo	Mambo	PIANIST		
158	Meneito	Meneito	191	Pianist 1	Pianist1
159	Rumba 2	Rumba2	192	Pianist 2	Pianist2
160	Rumba 3	Rumba3	193	Pianist 3	Pianist3
161	Lambada	Lambada	194	March 1	March1
162	Pop Cha Cha 1	PChaCha1	195	Italian Polka	ItaPolka
WALTZ & TRADITIONAL			196	Slow Waltz	SlwWltz
163	Waltz	Waltz	197	Waltz 1	Waltz1
164	Old Waltz	OldWaltz	198	Waltz 2	Waltz2

Appendix

No.	Name	Display	No.	Name	Display
199	Waltz 3	Waltz3	215	Jazz 7	Jazz7
200	Vienna Waltz	VinaWtz	216	Boogie	Boogie
201	Latin	Latin	217	Jive	Jive
202	Tango	Tango	218	Dixland	Dixland
203	Lambada	Lambada	219	Blues 1	Blues1
204	Samba	Samba	220	Blues 2	Blues2
205	ChaCha	ChaCha	221	Jazz Blues	JazBlues
206	Beguine	Beguine	222	Pop 1	Pop1
207	Salsa	Salsa	223	Pop 2	Pop2
208	Pop Bossa	PopBossa	224	Pop 3	Pop3
209	Jazz 1	Jazz1	225	Pop 4	Pop4
210	Jazz 2	Jazz2	226	Ballad 1	Ballad1
211	Jazz 3	Jazz3	227	Ballad 2	Ballad2
212	Jazz 4	Jazz4	228	Ballad 3	Ballad3
213	Jazz 5	Jazz5	229	Ballad 4	Ballad4
214	Jazz 6	Jazz6	230	6/8 Ballad 2	6/8Bld2

13.3 Voice list

No.	Name	Display	No.	Name	Display
PIANO			034	Electric Piano 3	E.Piano3
001	Acoustic Grand Piano	GrandPno	035	Electric Piano 4	E.Piano4
002	Acoustic Grand Piano 2	GrandPn2	036	Electric Piano 1 (velocity mix)	E.PnoV1
003	Acoustic Grand Piano 3	GrandPn3	037	Electric Piano 2 (velocity mix)	E.PnoV2
004	Acoustic Grand Piano (wide)	GrandPnW	038	60's Electric Piano	60'sEP
005	Acoustic Grand Piano (dark)	GrandPnD	039	EP Legend	EPLegend
006	Bright Acoustic Piano	BritePno	040	Phase EP	PhaseEP
007	Bright Acoustic Piano 2	BritePn2	041	Clavi	Clavi
008	Bright Acoustic Piano 3	BritePn3	042	Clavi 2	Clavi2
009	Bright Acoustic Piano (wide)	BritePnW	043	Phase Clavi	PhaseClv
010	Electric Grand Piano	E.Grand	044	Wah Clavi	WahClv
011	Electric Grand Piano 2	E.Grand2	045	Pulse Clavi	PulseClv
012	Electric Grand Piano (wide)	E.GrandW	046	Dream EP	DreamEP
013	Electric Grand Piano (dark)	E.GrandD	047	Tremolo EP	TremoEP
014	Honky Tonk Piano	HnkyTonk	048	Funk EP	FunkEP
015	Honky Tonk Piano 2	HnyTonk2	049	Warm EP	WarmEP
016	Honky Tonk Piano (wide)	HnyTonkW	050	Choir EP	ChoirEP
017	Honky Tonk Piano (dark)	HnyTonkD	051	Wah EP	WahEP
018	Harpsichord	Harpsi	052	Modern EP	ModernEP
019	Harpsichord 2	Harpsi2	053	EP Pad	EPPad
020	Harpsichord (octave mix)	HarpsiO	054	Celesta	Celesta
021	Harpsichord (wide)	HarpsiW	055	Celesta 2	Celesta2
022	Harpsichord (with key off)	HarpsiOf	056	Celesta 3	Celesta3
023	Octave Grand Piano	OctPno	057	Glockenspiel	Glocken
024	Octave Grand Piano 2	OctPno2	058	Glockenspiel 2	Glocken2
025	Piano & Strings	Pno&Str	059	Music Box	MusicBox
026	Piano & Pad	Pno&Pad	060	Music Box 2	MusicBox2
027	Piano & Choir	Pno&Cho	061	Music Box 3	MusicBox3
028	Piano & EP	Pno&EP	062	Vibraphone	Vibra
029	Piano & Vibraphone	Pno&Vib	063	Vibraphone 2	Vibra2
030	Detuned Electric Piano	DetunEP	064	Vibraphone (wide)	VibraW
031	Detuned Electric Piano 2	DetunEP2	065	Marimba	Marimba
032	Electric Piano	E.Piano	066	Marimba 2	Marimba2
033	Electric Piano 2	E.Piano2	067	Marimba (wide)	MarimbaW

Appendix

No.	Name	Display	No.	Name	Display
068	Xylophone	Xylophon	103	Harmonica	Harmnica
069	Xylophone 2	Xylopho2	104	Harmonica 2	Harmnic2
070	Xylophone 3	Xylopho3	105	Harmonica 3	Harmnic3
071	Tubular Bells	TubulBel	106	Tango Accordion	TangoAcd
072	Tubular Bells 2 Church Bell	TubulBe2	107	Tango Accordion 2	TangAcd2
073	Church Bell	ChurBell	GUITAR		
074	Carillon	Carillon	108	Acoustic Guitar (nylon)	NylonGtr
075	Dulcimer	Dulcimer	109	Acoustic Guitar (nylon) 2	NylonGt2
076	Dulcimer 2	Dulcime2	110	Acoustic Guitar (nylon) 3	NylonGt3
077	Santur	Santur	111	Acoustic Guitar (nylon + key off)	NylGtrOf
ORGAN			112	Ukulele	Ukulele
078	Italian 60's Organ	60'sOrgn	113	Acoustic Guitar (steel)	SteelGtr
079	Drawbar Organ	DrawOrgn	114	Acoustic Guitar (steel) 2	SteelGt2
080	Drawbar Organ 2	DrawOrg2	115	12-Strings Guitar	12StrGtr
081	Detuned Drawbar Organ	DeDraOrg	116	Mandolin	Mandolin
082	Drawbar Organ 3	DrawOrg3	117	Mandolin 2	Mandoli2
083	Detuned Percussive Organ	DePerOrg	118	Steel Guitar with Body Sound	SteelBdy
084	Percussive Organ	PercOrgn	119	Electric Guitar (jazz)	JazzGtr
085	Percussive Organ 2	PercOrg2	120	Electric Guitar (jazz) 2	JazzGtr2
086	70's Percussive Organ	70'sPcOr	121	Electric Guitar (pedal steel)	PedalGtr
087	Percussive Organ 3	PercOrg3	122	Electric Guitar (clean)	CleanGtr
088	Rock Organ	RockOrgn	123	Electric Guitar (clean) 2	CleanGt2
089	Rock Organ 2	RockOrg2	124	Electric Guitar (detuned clean)	DetClnGt
090	Rock Organ 3	RockOrg3	125	Mid Tone Guitar	MidTonGt
091	Church Organ	ChurOrgn	126	Electric Guitar (muted)	MutedGtr
092	Church Organ 2	ChurOrg2	127	Electric Guitar (muted) 2	MutedGt2
093	Church Organ 3	ChurOrg3	128	Electric Guitar (funky cutting)	FunkGt
094	Church Organ (octave mix)	ChurOrgO	129	Electric Guitar (muted velo-sw)	MutVelGt
095	Detuned Church Organ	DeChuOrg	130	Jazz Man	JazzMan
096	Reed Organ	ReedOrgn	131	Overdriven Guitar	Ovrdrive
097	Reed Organ 2	ReedOrg2	132	Overdriven Guitar 2	Ovrdriv2
098	Rotary Organ	RotyOrgn	133	Guitar Pinch	GtPinch
099	Puff Organ	PuffOrgn	134	Distortion Guitar	DistGtr
100	Accordion	Acordion	135	Distortion Guitar 2	DistGtr2
101	Accordion 2	Acordin2	136	Distortion Guitar (with feedback)	FeedbkGt
102	Accordion 3	Acordin3	137	Guitar Feedback	GtrFdbk

No.	Name	Display	No.	Name	Display
138	Distorted Rhythm Guitar	DistRyth	172	Cello	Cello
139	Guitar Harmonics	GtrHarmo	173	Cello 2	Cello2
140	Guitar Harmonics 2	GtHarmo2	174	Contrabass	Contrabs
141	Velocity Nylon Guitar	NyInGtVe	175	Contrabass 2	Contrbs2
BASS			176	Tremolo Strings	TremStr
142	Acoustic Bass	AcoBass	177	Tremolo Strings 2	TremStr2
143	Acoustic Bass 2	AcoBass2	178	Tremolo Strings 3	TremStr3
144	Wah Bass	WahBass	179	Pizzicato Strings	PizzStr
145	Electric Bass (finger)	FngrBass	180	Pizzicato Strings 2	PizzStr2
146	Finger Slap Bass	FngrSlap	181	Orchestral Harp	Harp
147	Electric Bass (pick)	PickBass	182	Orchestral Harp 2	Harp2
148	Electric Bass (pick) 2	PickBas2	183	Yang Chin	YangChin
149	Fretless Bass	Fretless	184	Timpani	Timpani
150	Fretless Bass 2	Fretles2	185	Timpani 2	Timpani2
151	Slap Bass	SlapBass	186	String Ensembles	Strings
152	Slap Bass 2	SlapBas2	187	String Ensembles 2	Strings2
153	Slap Bass 3	SlapBas3	188	String Ensembles 3	Strings3
154	Slap Bass 4	SlapBas4	189	String Ensembles 4	Strings4
155	Synth Bass	SynBass	190	Strings & Brass	Str&Bras
156	Synth Bass 2	SynBass2	191	60's Strings	60'sStr
157	Synth Bass 3	SynBass3	192	Synth Strings	SynStrs
158	Synth Bass 4	SynBass4	193	Synth Strings 2	SynStrs2
159	Warm Synth Bass	WarmBass	194	Synth Strings 3	SynStrs3
160	Resonance SynBass	ResoBass	195	Synth Strings4	SynStrs4
161	Clavi Bass	ClavBass	196	Synth Strings5	SynStrs5
162	Hammer	Hammer	197	Choir Aahs	ChoirAah
163	Attack Bass	AtackBas	198	Choir Aahs 2	ChorAah2
164	Synth Bass (rubber)	RubbBass	199	Choir Aahs 3	ChorAah3
165	Synth Bass (rubber) 2	RubbBas2	200	Voice Oohs	VoiceOoh
166	Attack Pulse	AtackPls	201	Voice Oohs 2	VoicOoh2
STRINGS & ORCHESTRAL			202	Humming	Humming
167	Violin	Violin	203	Analog Voice	AnlVoice
168	Violin 2	Violin2	204	Synth Voice	SynVoice
169	Violin (slow attack)	SIViolin	205	Synth Voice 2	SynVoic2
170	Viola	Viola	206	Orchestra Hit	OrchHit
171	Viola 2	Viola2	207	Orchestra Hit 2	OrchHit2

Appendix

No.	Name	Display	No.	Name	Display
208	Bass Hit Plus	BassHit	243	Funny 2	Funny2
209	6th Hit	6thHit	BRASS		
210	Euro Hit	EuroHit	244	Soprano Sax	SprnoSax
BRASS			245	Soprano Sax 2	SprnSax2
211	Trumpet	Trumpet	246	Soprano Sax 3	SprnSax3
212	Trumpet 2	Trumpet2	247	Alto Sax	AltoSax
213	Dark Trumpet	DarkTrp	248	Alto Sax 2	AltoSax2
214	Trombone	Trombone	249	Alto Sax 3	AltoSax3
215	Trombone 2	Trmbone2	250	Tenor Sax	TenorSax
216	Trombone 3	Trmbone3	251	Tenor Sax 2	TenoSax2
217	Bright Trombone	BritBone	252	Tenor Sax 3	TenoSax3
218	Tuba	Tuba	253	Baritone Sax	BariSax
219	Tuba 2	Tuba2	254	Baritone Sax 2	BariSax2
220	Muted Trumpet	MuteTrp	255	Baritone Sax 3	BariSax3
221	Muted Trumpet 2	MuteTrp2	256	Oboe	Oboe
222	Muted Trumpet 3	MuteTrp3	257	Oboe 2	Oboe2
223	French Horn	FrHorn	258	Oboe 3	Oboe3
224	French Horn 2	FrHorn2	259	2 Oboes	2Oboes
225	French Horn 3	FrHorn3	260	English Horn	EngHorn
226	Brass Section	Brass	261	English Horn 2	EngHorn2
227	Brass Section 2	Brass2	262	English Horn 3	EngHorn3
228	Brass Section 3	Brass3	263	2 English Horns	2EngHons
229	Synth Brass	SynBrass	264	Bassoon	Bassoon
230	Synth Brass 2	SynBras2	265	Bassoon 2	Bassoon2
231	Synth Brass 3	SynBras3	266	Bassoon 3	Bassoon3
232	Synth Brass 4	SynBras4	267	2 Bassoons	2Bassoons
233	Synth Brass 5	SynBras5	268	Clarinet	Clarinet
234	Synth Brass 6	SynBras6	269	Clarinet 2	Clarine2
235	Synth Brass 7	SynBras7	270	Clarinet 3	Clarine3
236	Synth Brass 8	SynBras8	271	2 Clarinets	2Clarins
237	Analog Synth Brass	AnaBrass	PIPE		
238	Analog Synth Brass 2	AnaBras2	272	Piccolo	Piccolo
239	Analog Synth Brass 3	AnaBras3	273	Piccolo 2	Piccolo2
240	Jump Brass	JumpBras	274	Piccolo 3	Piccolo3
241	Jump Brass 2	JumpBrs2	275	2 Piccolos	2Piccolos
242	Funny	Funny	276	Sweet Flute	SweeFlut

No.	Name	Display	No.	Name	Display
277	Flute	Flute	312	Lead 4 (chiff) 2	ChiffLd2
278	Flute 2	Flute2	313	Lead 4 (chiff) 3	ChiffLd3
279	Flute 3	Flute3	314	Lead 5 (charang)	CharanLd
280	2 Flutes	2Flutes	315	Lead 5 (charang) 2	CharaLd2
281	Recorder	Recorder	316	Lead 5 (charang) 3	CharaLd3
282	Recorder 2	Recorder2	317	Lead 5 (charang) 4	CharaLd4
283	2 Recorders	2Records	318	Lead 5a (wire lead)	WireLead
284	Pan Flute	PanFlute	319	Lead 5a (wire lead) 2	WireLd2
285	Pan Flute 2	PanFlut2	320	Lead 6 (voice)	VoiceLd
286	Sweet Pan Flute	SwPanFlu	321	Lead 6 (voice) 2	VoiceLd2
287	Blown Bottle	Bottle	322	Lead 7 (fifths)	FifthsLd
288	Blown Bottle 2	Bottle2	323	Lead 7 (fifths) 2	FifthLd2
289	Shakuhachi	Shakhchi	324	Lead 8 (bass + lead)	BassLead
290	Shakuhachi 2	Shakhch2	325	Lead 8 (bass + lead) 2	BasLead2
291	Whistle	Whistle	326	Lead 8 (bass + lead) 3	BasLead3
292	Whistle 2	Whistle2	327	Lead 8a (soft wrl)	SftWrlLd
293	Ocarina	Ocarina	328	Massiness	Massin
294	Ocarina 2	Ocarina2	329	Square	Square
SYNTH LEAD			330	Slow Square Lead	SlwSquLd
295	Lead 1 (square)	SquareLd	331	Sine Solo	SineSolo
296	Lead 1a (square) 2	SquarLd2	332	Square Lead 4	SquarLd4
297	Lead 1 (square) 3	SquarLd3	333	Thick Square	ThickSqu
298	Lead 1b (sine)	SineLead	334	2Oscillators Lead	2OscLd
299	Lead 2 (sawtooth)	SawLead	335	Wavy Sawtooth 2	WavySaw2
300	Lead 2a (sawtooth) 2	SawLead2	336	Analog Lead	AnaLead
301	Lead 2 (sawtooth) 3	SawLead3	337	Big Lead	BigLead
302	Lead 2b (saw + pulse)	SawPlsLd	338	Fat Lead	FatLead
303	Lead 2c (double sawtooth)	DubSawLd	339	PWM 4th	Rezz4th
304	Lead 2d (sequenced analog)	SquAnaLd	340	Delayed Lead	DelyLead
305	Lead 2d (sequenced analog) 2	SqAnaLd2	341	Delayed Lead 2	DlyLead2
306	Wavy Sawtooth	WavySaw	342	Fifth Lead	FifLead
307	Bauble Lead	BaubleLd	343	Corrie	Corrie
308	Super Analog	SuperAna	344	Quint	Quint
309	Lead 3 (calliope)	CaliopLd	SYNTH PAD		
310	Lead 3 (calliope) 2	CalipLd2	345	Pad 1 (new age)	NewAge
311	Lead 4 (chiff)	ChiffLd	346	Pad 1 (new age) 2	NewAge2

Appendix

No.	Name	Display	No.	Name	Display
347	Pad 2 (warm)	WarmPad	383	Rising	Rising
348	Pad 2 (warm) 2	WarmPad2	384	Congregate	Congrega
349	Pad 2a (sine pad)	SinePad	SYNTH SFX		
350	Pad 3 (polysynth)	PolySyn	385	FX 1 (rain)	FXRain
351	Pad 3 (polysynth) 2	PolySyn2	386	FX 1 (rain) 2	FXRain2
352	Pad 3 (polysynth) 3	PolySyn3	387	FX 2 (soundtrack)	Soundtrk
353	Pad 3 (polysynth) 4	PolySyn4	388	FX 2 (soundtrack) 2	Sondtrk2
354	Pad 4 (choir)	ChoirPad	389	Prelude	Prelude
355	Pad 4 (choir) 2	ChoirPd2	390	FX 3 (crystal)	Crystal
356	Pad 4a (itopia)	ItopiaPd	391	FX 3 (crystal) 2	Crystal2
357	Pad 5 (bowed)	BowedPad	392	FX 3a (synth mallet)	SynMalet
358	Pad 5 (bowed) 2	BowedPd2	393	FX 4 (atmosphere)	Atmosphr
359	Pad 6 (metallic)	MetalPad	394	FX 4 (atmosphere) 2	Atmosph2
360	Pad 6 (metallic) 2	MetalPd2	395	Warm Air	WarmAir
361	Pad 7 (halo)	HaloPad	396	FX 5 (brightness)	Bright
362	Pad 7 (halo) 2	HaloPad2	397	Smog	Smog
363	Pad 8 (sweep)	SweepPad	398	FX 6 (goblins)	Goblins
364	Pad 8 (sweep) 2	SweepPd2	399	FX 6 (goblins) 2	Goblins2
365	Pad 8 (sweep) 3	SweepPd3	400	Choir Bell	ChorBell
366	Pan Pad	PanPad	401	Choir Bell 2	ChorBel2
367	Pan Pad 2	PanPad2	402	FX 7 (echoes)	Echoes
368	Dipolar Pad	DipolPad	403	FX 7 (echoes) 2	Echoes2
369	PWM Pad	PWMPad	404	FX 7b (echo pan)	EchoPan
370	Warmly Pad	WarmlyPd	405	FX 7a (echo bell)	EchoBell
371	Horn Pad	HornPad	406	FX 7a (echo bell) 2	EchoBel2
372	Click Pad	ClickPad	407	FX 7a (echo bell) 3	EchoBel3
373	Analog Pad	AnalogPd	408	FX 8 (sci-fi)	Sci-Fi
374	80's Poly Pad	80'sPoly	409	FX 8 (sci-fi) 2	Sci-Fi2
375	PWM 4th Soft	Rezz4thS	ETHNIC MISC.		
376	Synth Calliope Soft	CalioLdS	410	Sitar	Sitar
377	Soft Vox	SoftVox	411	Sitar 2	Sitar2
378	5th SawWave	5thSaw	412	Banjo	Banjo
379	5th Lead Soft	FiftLdSf	413	Banjo 2	Banjo2
380	Slow Square	SISquare	414	Shamisen	Shamisen
381	New Year Pad	NewYear	415	Shamisen 2	Shamise2
382	Space Voice	SpcVoice	416	Koto	Koto

No.	Name	Display	No.	Name	Display
417	Koto 2	Koto2	452	Ride Cymbal	RideCym
418	Taisho Koto	TaishoKt	453	China Cymbal	ChinaCym
419	Kalimba	Kalimba	454	Ride Bell	RideBell
420	Kalimba 2	Kalimba2	455	Tambourine	Tambouri
421	Bag Pipe	BagPipe	456	Splash Cymbal	SplashCy
422	Bag Pipe 2	BagPipe2	457	Cowbell	Cowbell
423	Fiddle	Fiddle	458	Analog Cowbell	AnaCowbl
424	Fiddle 2	Fiddle2	459	High Bongo	HiBongo
425	Fiddle 3	Fiddle3	460	Low Bongo	LoBongo
426	Shanai	Shanai	461	Mute Hi Conga	MuHiCnga
427	Shanai 2	Shanai2	462	Open Hi Conga	OpHiCnga
PERCUSSIVE			463	Low Conga	LowConga
428	Tinkle Bell	TnklBell	464	Analog Hi Conga	AnHiCnga
429	Agogo	Agogo	465	Analog Mid Conga	AnMiCnga
430	Steel Drums	SteelDrm	466	Analog Low Conga	AnLoCnga
431	Woodblock	WoodBlok	467	High Timbale	HiTimbal
432	Castanets	Castanet	468	Low Timbale	LoTimbal
433	Taiko Drum	TaikoDrm	469	Cabasa	Cabasa
434	Concert Bass Drum	ConBasDm	470	Maracas	Maracas
435	Acoustic Bass Drum	BassDrum	471	Analog Maracas	AnMaracas
436	Jazz Kick	JazzKick	472	Short Guiro	ShGuiro
437	Side Stick	SidStick	473	Long Guiro	LoGuiro
438	Analog Rim Shot	AnRiShot	474	Claves	Claves
439	Acoustic Snare	A.Snare	475	Mute Cuica	MuCuica
440	Jazz Snare	JazSnare	476	Open Cuica	OpCuica
441	Brush Tap	BrushTap	477	Mute Triangle	MuTrgle
442	Concert SD	ConcetSD	478	Open Triangle	OpTrgle
443	Hand Clap	HandClap	479	Shaker	Shaker
444	Tom	Tom	480	Mute Surdo	MuSurdo
445	Brush Tom	BrushTom	481	Open Surdo	OpSurdo
446	Closed Hi-hat	ClosedHH	482	Melodic Tom	MeloTom
447	Analog Closed Hi-hat	AnCloHH	483	Melodic Tom 2	MeloTom2
448	Pedal Hi-hat	PedalHH	484	Synth Drum	SynDrum
449	Open Hi-hat	OpenHH	485	Rhythm Box Tom	RhythBox
450	Crash Cymbal	CrashCym	486	Electric Drum	ElecDrum
451	Analog Cymbal	AnaCym	487	Reverse Cymbal	RevCymb1

Appendix

No.	Name	Display	No.	Name	Display
SFX			523	Heart Beat	HeartBet
488	Guitar Fret Noise	FretNoiz	524	Footsteps	Footstep
489	Guitar Cutting Noise	GtCtNoiz	525	Gunshot	Gunshot
490	Acoustic Bass String Slap	BsStSlap	526	Machine Gun	MachnGun
491	Breath Noise	BrthNoiz	527	Lasergun	Lasergun
492	Flute Key Click	FlKeyClk	528	Explosion	Explosio
493	Seashore	Seashore	COMBINED VOICE		
494	Rain	Rain	529	Stereo Piano & Strings Pad	Pn&StrPd
495	Thunder	Thunder	530	Stereo Piano & Choir	Pn&Choir
496	Wind	Wind	531	Stereo Piano & Synth Strings	Pn&SyStr
497	Stream	Stream	532	Stereo Piano & Warm Pad	Pn&WrmPd
498	Bubble	Bubble	533	Stereo Piano & Soft EP	Pn&SfEP
499	Bird Tweet	Tweet	534	FM Electric Piano	FMEP
500	Bird Tweet 2	Tweet2	535	Digital Piano	DigitlPn
501	Dog	Dog	536	E.Piano & Strings	EP&Str
502	Horse Gallop	HouseGlp	537	Piano & Acoustic Guitar	EP&Str
503	Telephone Ring	Telephone	538	E.Piano & Vibraphone	EP&Vibra
504	Telephone Ring 2	Telphon2	539	E.Piano 2 & Pad	EP2&Pad
505	Door Creaking	DoorCrek	540	E.Piano 2 & Strings	EP2&Str
506	Door	Door	541	Harpsichord & Stereo Strings	Hrps&Str
507	Scratch	Scratch	542	Music Box & Stereo Strings	MBox&Str
508	Wind Chime	WindChim	543	Vibraphone & Stereo Strings	Vib&Str
509	Helicopter	Helicptr	544	Vibraphone Octave	VibraOct
510	Car Engine	CarEngin	545	Vibraphone & Marimba & Kalimba	Vib&M&K
511	Car Stop	CarStop	546	Marimba & Kalimba	Mar&Kal
512	Car Pass	CarPass	547	Marimba Delay	MarDelay
513	Car Crash	CarCrash	578	Xylophone Octave	XylopOct
514	Siren	Siren	549	Organ & Stereo Strings	Orgn&Str
515	Train	Train	550	Stereo Organ & Piano	Orgn&Pno
516	Jetplane	Jetplane	551	Rock Organ & Strings	RkOr&Str
517	Starship	Starship	552	Church Organ & Choir	ChOr&Cho
518	Burst Noise	BurtNois	553	Church Organ & Strings	ChOr&Str
519	Applause	Applause	554	Acoustic Guitar & Flute	Gtr&Flut
520	Laughing	Laughing	555	Acoustic Guitar & Clavi	Gtr&Clav
521	Screaming	Scream	556	24 String Guitar	24StrGtr
522	Punch	Punch	557	Steel Guitar & Warm Pad	StGt&Pad

No.	Name	Display	No.	Name	Display
558	Stereo Strings & Horn	Str&Horn	580	Flute & Oboe & Bassoon	Fl&Ob&Bn
559	Orchestra	Orchestr	581	Flute Octave	FluteOct
560	Full Strings	FullStr	582	Flute & Oboe Octave	Fl&ObOct
561	Full Strings 2	FullStr2	583	Flute & Clarinet Octave	Fl&ClOct
562	Symphonic	Symphon	584	Oboe & Bassoon	Oboe&Bn
563	Stereo Choir & Strings	Cho&Str	585	Oboe & Clarinet	Ob&Cl
564	Stereo Choir & Steel Guitar	Cho&Gtr	586	Oboe & Clarinet & Bassoon	Ob&Cl&Bn
565	3 Trumpet Loose	3Trumpet	587	Oboe Octave	OboeOct
566	Trombone & Stereo Strings	Tomb&Str	588	Oboe & Clarinet Octave	Ob&ClOct
567	3 Trombones Loose	3Trmbone	589	Oboe & Bassoon Octave	Ob&BnOct
568	3 Muted Trumpets Loose	3MuTrump	590	Clarinet & Bassoon	Cl&Bn
569	Club Brass	ClubBras	591	Clarinet & Oboe Octave	Cl&ObOct
570	Brass & Woodwinds	Brs&Wood	CHINESE INSTRUMENTS		
571	Woodwinds & Strings	Wood&Str	592	Standard Set	StandSet
572	Section Woods Small	WoodSmal	593	Room Set	RoomSet
573	Pan Flute & Strings Pad	PnFl&Str	594	Power Set	PowerSet
574	Koto & Shamisen	Kto&Sham	595	Electronic Set	ElectSet
575	Flute & Clarinet	Flu&Clar	596	Analog Set	AnalgSet
576	Flute & Oboe	Flu&Oboe	597	Jazz Set	JazzSet
577	Flute & Bassoon	Flu&Bn	598	Brush Set	BrushSet
578	Flute & Oboe & Clarinet	Fl&Ob&Cl	599	Orchestra Set	OrcheSet
579	Flute & Clarinet & Bassoon	Fl&Cl&Bn	600	SFX Set	SFXSet

13.4 Demo list

No.	Name	Display
001	Demo1	Demo1
002	Demo2	Demo2
003	Bossa Nova	BosaNova
004	Fusion	Fusion
005	Jazz	Jazz

13.5 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	Note	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		Yes	Yes	
Control Change	0	Yes	Yes	Bank Select
	1	No	Yes	Modulation
	5	No	Yes	Portamento Time
	6	Yes	Yes	Data Entry
	7	Yes	Yes	Volume
	10	No	Yes	Pan
	11	No	Yes	Expression
	64	Yes	Yes	Sustain Pedal
	65	No	Yes	Portamento ON/OFF
	66	Yes	Yes	Sostenuto Pedal
	67	Yes	Yes	Soft Pedal
	80	No	Yes	Reverb Program
	81	No	Yes	Chorus Program
	91	Yes	Yes	Reverb Level
	93	Yes	Yes	Chorus Level
120	No	Yes	All Sound Off	
121	No	Yes	Reset All Controllers	
123	No	Yes	All Notes Off	
Program Change	True #	Yes *****	Yes 0 – 127	
System Exclusive		No	Yes	
System Common	Song Position Pointer	No	No	

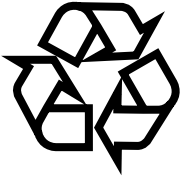
Function		Sent	Received	Notes
	Song Select	No	No	
	Tune Request	No	No	
System Real Time	Clock	Yes	No	
	Commands	No *1	No *1	
Aux Messages	Local ON/OFF	No	No	
	Active Sensing	No	Yes	
	System Reset	No	No	

MIDI channel modes

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

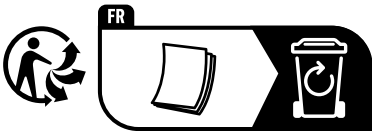
14 Protecting the environment

Disposal of the packing material



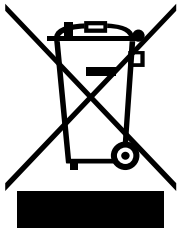
Environmentally friendly materials have been chosen for the packaging. These materials can be sent for normal recycling. Ensure that plastic bags, packaging, etc. are disposed of in the proper manner.

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



Observe the disposal note regarding documentation in France.

Disposal of your old device



This product is subject to the European Waste Electrical and Electronic Equipment Directive (WEEE) as amended.

Do not dispose of your old device with your normal household waste; instead, deliver it for controlled disposal by an approved waste disposal firm or through your local waste facility. If in doubt, consult your local waste management facility. You can also return the device to a retailer if they offer to take the device back for free or if they are legally obliged to do so. When disposing of the device, comply with the rules and regulations that apply in your country. You can also return your old device to Thomann GmbH at no charge. Check the current conditions on www.thomann.de.

Proper disposal protects the environment as well as the health of your fellow human beings. This is because the proper handling of old devices negates the potential negative effects of hazardous substances, and because it conserves resources by recycling them.

Also note that waste avoidance is a valuable contribution to environmental protection. Repairing a device or passing it on to another user is an ecologically valuable alternative to disposal.

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

