swissonic

ControlKey 49, ControlKey 61, ControlKey 88

MIDI keyboard

th•mann
MUSIC IS OUR PASSION

user manual

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Table of contents

1 General information

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

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

1.1 Further information

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

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

1.2 Notational conventions

This manual uses the following notational conventions:

Letterings

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

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

Displays

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

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

Instructions

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

Example:

1. Switch on the device.
2. Press *[Auto]*.
   ⇨ Automatic operation is started.
3. Switch off the device.

Cross-references

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

Example: See *'Cross-references' on page 5*.

1.3 Symbols and signal words

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

Signal word	Meaning
DANGER!	This combination of symbol and signal word indicates an immediate dangerous situation that will result in death or serious injury if it is not avoided.
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 – danger zone.

2 Safety instructions

Intended use

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

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

Safety

DANGER!

Danger for children

Ensure that plastic bags, packaging, etc. are disposed of properly and are not within reach of babies and young children. Choking hazard!

Ensure that children do not detach any small parts (e.g. knobs or the like) from the unit. They could swallow the pieces and choke!

Never let children unattended use electrical devices.

NOTICE!

Operating conditions

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

NOTICE!

External power supply

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

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

3 Features

- MIDI keyboard and controller
- semi-weighted velocity-sensitive keys with Aftertouch
- Pitch bend and modulation wheel
- velocity-sensitive trigger pads
- eight rotary encoders
- eight mute and solo buttons
- nine faders
- Menu and transport buttons
- Octave / transpose function
- 30 memory locations for scenes
- backlit LCD
- Connectors for Sustain and Expression pedal
- 5-pin MIDI output, USB output
- MAC and Windows compatible
- Power supply via 9 V mains adapter or USB cable

4 Installation and starting up

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

Create all connections while the device is off. Use the shortest possible high-quality cables for all connections. Take care when running the cables to prevent tripping hazards.

Operation with a computer

Power supply is enabled once you connect the unit through the USB port and the included USB cable to a PC. If desired, connect a Sustain and / or an Expression pedal to the device (pedals are not included). Turn on the device using the main switch on the rear panel.

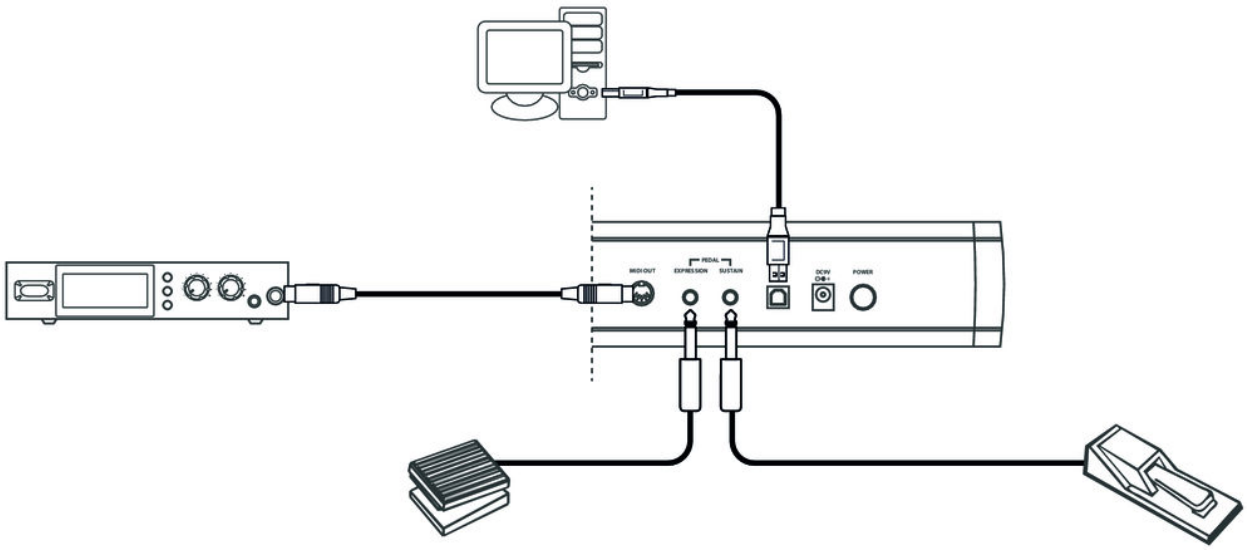
Start the DAW installed on your computer and adjust the software and MIDI settings.

System requirements:

- Windows XP/Vista/7®, at least 800 MHz, at least 256 MB RAM
- Mac OS X V.10.4.9® and higher, at least 733 MHz, at least 512 MB RAM

Operation with a MIDI device

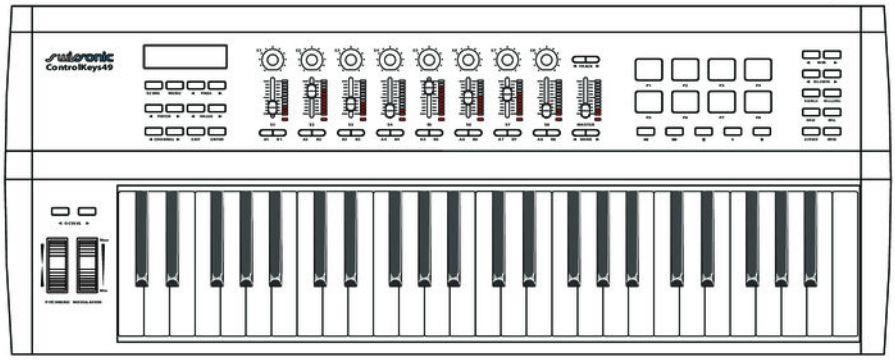
To operate the device with any MIDI device (such as a sound module) you need an external 9V mains adapter for power supply (not included). In this case, connect your device via the 5-pin MIDI output on the rear panel to the input of the MIDI device. If desired, connect a Sustain and / or an Expression pedal to the device (pedals are not included). Turn on the device using the main switch on the rear panel.



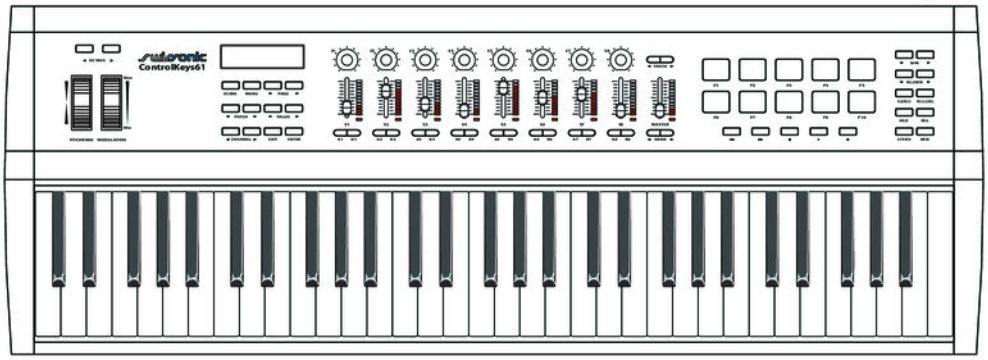
5 Connections and operating elements

Model overview

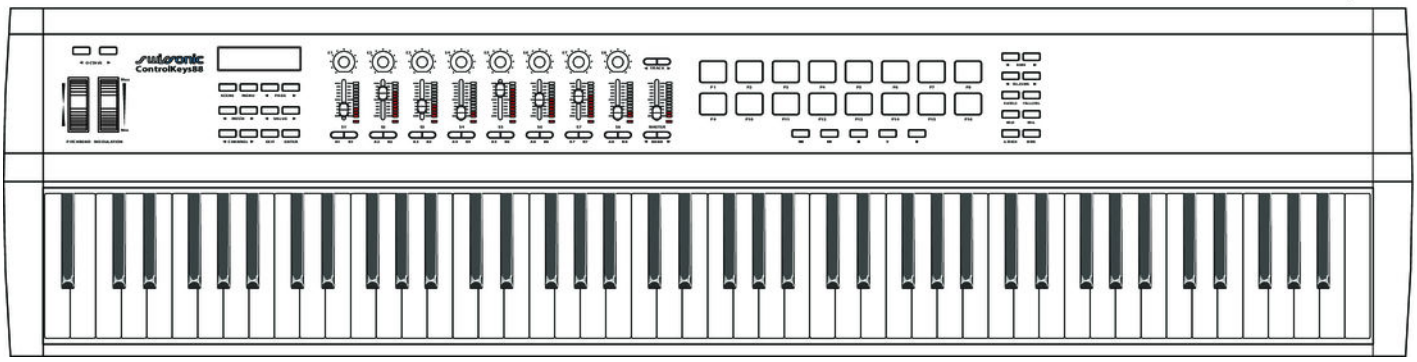
Swissonic ControlKey 49



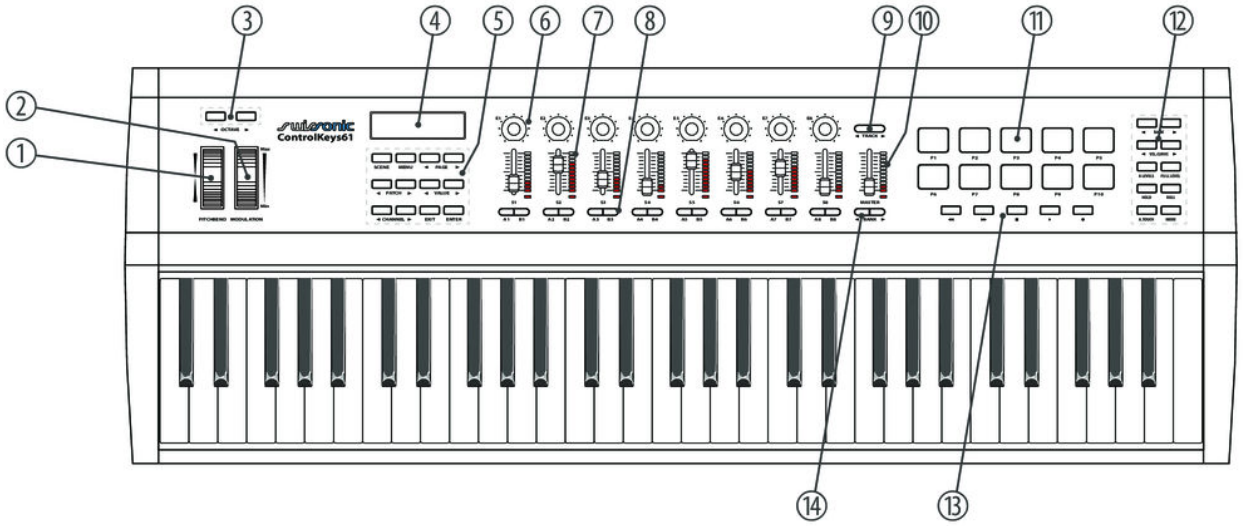
Swissonic ControlKey 61



Swissonic ControlKey 88



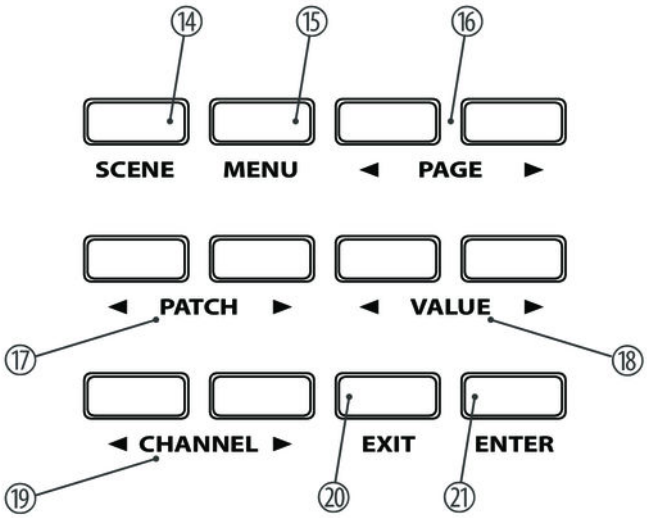
Top view



1	*[PITCHBEND]* Pitch bend wheel to vary the pitch when playing.
2	*[MODULATION]* Modulation wheel.
3	*[OCTAVE]* Buttons to octave / transpose the keyboard.
4	Display.
5	Function / select buttons, see *'Function / select buttons [5]' on page 11*.
6	*[E1] … [E8]* Rotary encoder
7	*[S1] … [S8]* Fader with LED chain display.
8	*[A1 | B1] … [A8 | B8]* Mute / solo buttons.
9	*[TRACK]* Button for the simultaneous shifting of all encoders and faders.
10	*[MASTER]* Master fader.
11	*[P1] … [P8]* (*[P16]*) Programmable trigger pads.

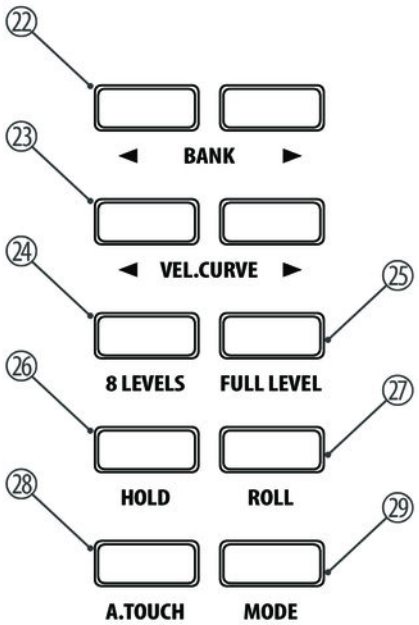
12	Function / select buttons, see *'Function / select buttons [12]' on page 12*.
13	Transport buttons: back, forward, stop, play, record

Function / select buttons [5]



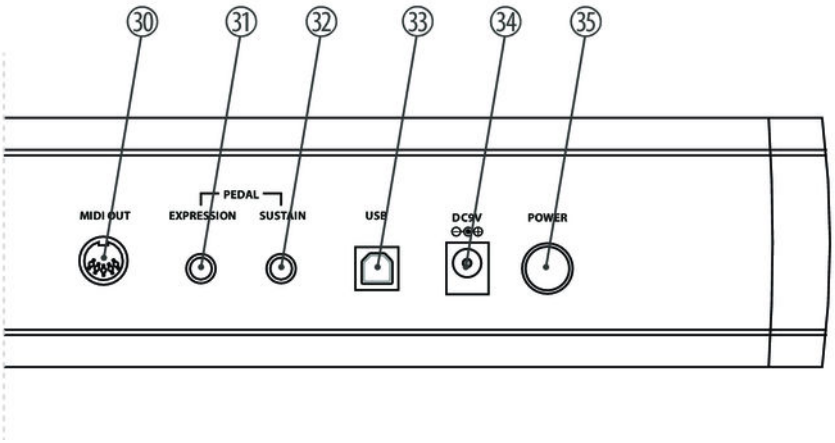
14	*[SCENE]* Button to activate the Scene mode.
15	*[MENU]* Button to activate the Edit mode.
16	◄ *[PAGE]* ► Buttons to navigate between the parameters and functions available (all modes).
17	◄ *[PATCH]* ► Buttons to send programme change commands.
18	◄ *[VALUE]* ► Buttons to adjust / select values / options in Edit and Scene mode.
19	◄ *[CHANNEL]* ► Buttons to switch between the available channels.
20	*[EXIT]* Button to exit the open menu or menu function.
21	*[ENTER]* Button to confirm parameter changes.

Function / select buttons [12]



22	◄ *[BANK]* ► Buttons to switch between the preset banks and trigger pads.
23	◄ *[VEL.CURVE]* ► Buttons to adjust the touch sensitivity of all trigger pads.
24	*[8 LEVELS]* Button to quickly toggle the touch sensitivity of all trigger pads to a fixed value. The button lights up when the mode is active.
25	*[FULL LEVEL]* Button to quickly toggle all trigger pads to maximum touch sensitivity. The button lights up when the mode is active.
26	*[HOLD]* Button to activate the Hold mode of the trigger pads. The button lights up when the mode is active.
27	*[ROLL]* Button to activate the Roll mode of the trigger pads. The button lights up when the mode is active.
28	*[A.TOUCH]* Button to disable the Aftertouch function of the trigger pads. The button lights up when the function is deactivated.
29	*[MODE]* Button to toggle between the transmission modes of the trigger pads (note or controller commands). The button lights up in 'Controller commands' mode.

Rear panel connections



30	*[MIDI OUT]* Use a MIDI cable to connect the 5-pin MIDI port on the rear panel of the MIDI keyboard to the MIDI input of a sound module. At MIDI connections, the device that controls other devices, is referred to as the 'Master'. A device that is controlled via MIDI is called 'Slave'. Connect the MIDI OUT of the master to the MIDI IN of the slave.
31	*[EXPRESSION]* Socket for connecting a stereo expression pedal with a control range of 0 … 10 kΩ. Before connecting the pedal to the keyboard, ensure that the pedal is either completely open or completely closed. In this way, you establish the maximum volume position. Always start by connecting the pedal. Then turn on the keyboard, and then start up the software.
32	*[SUSTAIN]* Socket for connecting a Sustain pedal.
33	*[USB]* Use the included USB cable to connect the USB port on the rear panel of the MIDI keyboard to the USB port of a computer. Besides the data transmission, this interface can also provide the power supply to the MIDI keyboard.
34	*[DC9V]* Connector for a 9 V power adapter (not included).
35	*[POWER]* Button to turn the MIDI keyboard on and off.

6 Functions

Display functions

When using the encoders, mute / solo buttons, faders and trigger pads, the current values of the associated settings are shown in the unit's display.

Operation mode 'Performance'

This is the keyboard's main operating mode (*[SCENE]* and *[MENU]* do not light up). MIDI data generated by the piano keys and the other controls of the keyboard are sent depending on the setting via USB to a connected computer or to a sound module connected via MIDI.

Operation mode 'Scene'

In this mode, the scenes (presets) stored in the memory can be loaded. Use *[SCENE]* to select the Scene mode.

Select the required scene with ◀ *[VALUE]* ▶.

Scene 1: The faders control the volume and the rotary encoders control the Pan setting of the assigned channels. With this selection you can directly control almost all USB / MIDI devices and DAWs. The settings of this scene can be user-specifically adjusted in the Edit mode.

Scene 2 … 16: These presets are tailored to the displayed DAW software programmes like Ableton, Logic, Pro Tools, Cubase, etc. In this DAW software setting, select user interface 'MackieControl' for port 2. The communication between computer and keyboard is bi-directional, i. e., certain information from the software will be shown in the display of the keyboard:

- Use faders *[S1]* … *[S8]* to control the volume of the assigned channel.
- The *[MASTER]* fader allows you to control the overall volume.
- Use encoders *[E1]* … *[E8]* to control the Pan setting of the assigned channel.
- Using function buttons *[A1]* … *[A8]* you can switch the assigned channel to Solo mode (with the exception of Logic®: *[A1]* … *[A8]* = record-enable).
- Function buttons *[B1]* … *[B8]* mute the assigned channel.
- *[BANK]* and *[CHANNEL]* allow you to change the channel assignment in the software.
- All MIDI messages are transmitted via port 2 between computer and keyboard.

It is possible that the position of the hardware faders on the keyboard does not match the position of the fader in your DAW software. If the keyboard is integrated into the software as [MackieControl], the LED chains next to the faders indicate the position of the software faders. To control the software fader, the hardware fader must first run over the position of the software fader. As soon as both are on the same value the software fader is 'taken along'. This prevents parameter jumps.

Scene 17 … 30: Custom Scenes. Don't select any user interface in the DAW software to use these scenes. On delivery, all custom scenes work with identical settings. These can be adjusted in the Edit mode at any time. Changed settings are automatically saved with the active scene.

Press *[ENTER]* to confirm your selection and to exit Scene mode. *[EXIT]* allows you to exit the menu without changes.

Operating mode 'Setup'

In this mode, you can adjust various keyboard parameters. Use *[Menu]* to select Setup mode. In Setup mode, no MIDI data will be transmitted. The following parameters can be user-specifically adapted:

- *'CONTROL ASSIGN'*: Press the required element (encoder, fader, button), use ◀ *[PAGE]* ▶ to switch between the available parameters (see table below) and adjust the values with ◀ *[VALUE]* ▶. Each change must be confirmed with *[ENTER]*. Unconfirmed changes will be discarded upon activation of another control.
- *'SCENE SAVE TO'*: Saving current scene to a certain memory location.
- *'KBD VELOCITY'*: Setting the touch sensitivity of the piano keyboard.
- *'KBD AFTERTOUCH'*: Enabling / disabling the Aftertouch function.
- *'MIDI ROUTE'*: Enabling / disabling sending MIDI messages from the keyboard to a connected MIDI device.
- *'PAD ROLL TEMPO'*: Speed of the keyboard's internal MIDI clock in BPM (beats per minute).
- *'PAD ROLL DIVIDER'*: Setting the note value of the Pad-Roll function. The speed of the pad-roll function depends on the note value selected here and the speed of the MIDI Clock.
- *'MIDI CLOCK'*: Determines whether the internal MIDI clock of the keyboard or the external MIDI clock of a computer (DAW) sets the pace for the pad-roll function.
- *'RESET'*: Reset of all parameters to factory default settings.

Setting parameter *'CONTROL ASSIGN'*	**Definition**
CC	Controller number.
MODE	Toggle, the first keystroke sends note on (CC 127), the second sends note off (CC 0).
M	Momentary, note on (CC 127) is sent when the button is pressed, note off is sent on release (CC 0).
CH	Channel number.
PORT	Two ports are assigned to each control. This parameter specifies to which port the element sends the command.
MAX	Highest value.
MIN	Lowest value.

All settings are assigned to the currently active bank. If necessary, switch to another memory bank with ◀ *[BANK]* ▶.

The assignment of the controls and functions varies depending on the DAW software.

Press *[ENTER]* to confirm your selection and to exit Setup mode. *[EXIT]* allows you to exit the menu without changes.

Octave transposing

With the ◀ *[OCTAVE]* ▶ arrow buttons, you can transpose the pitch of the entire keyboard up to three octaves downwards and four octaves upwards. The display shows the selected step (*'–3'* … *'0'* … *'4'*).

Transposing

Use the ◀ *[OCTAVE]* ▶ buttons to transpose the entire keyboard in semitone increments up or down. The display shows the selected step (*'–12'* … *'0'* … *'12'*).

To switch between Octave and Transpose mode, first switch to Performance operating mode (*[SCENE]* and *[MENU]* do not light up). Press one of the two *[VALUE]* buttons and use ◀ *[VALUE]* ▶ to select between *'MODE:OCT'* and *'MODE:TRA'*.

Pitch bending

Use the Pitchbend wheel to vary the pitch up or down while playing. How many semitones can be pitch bended up or down depends on the tone generator used. The Pitch Bend wheel automatically returns to the neutral position.

Modulation

The function of the modulation wheel depends on the tone generator used. Usually, this controls the intensity of a vibrato effect.

Trigger pads

On delivery, the velocity-sensitive trigger pads are assigned to drum sounds. When hitting a pad, the note number and the velocity value are shown on the keyboard's display. If you hit and hold the pad, additional messages depending on the hit intensity are sent through the Aftertouch function.

All pads have double allocation. With ◀ *[BANK]* ▶ you can switch between the two corresponding memory banks.

With *[A.TOUCH]* you can disable the Aftertouch function of the pads (button light on) or enable it (button light off).

◀ *[VEL.CURVE]* ▶ allows you to adjust the touch sensitivity of all trigger pads to four levels: *'soft'*, *'hard'*, *'fixed'*, *'normal'*.

With *[8 LEVELS]* you can set the touch sensitivity of all trigger pads to a fixed value: *'16'*, *'32'*, *'48'*, *'64'*, *'80'*, *'96'*, *'112'* and *'127'*. The button lights up when the mode is active.

With *[FULL LEVEL]* you set the touch sensitivity of all trigger pads to the maximum value *'127'*. The button lights up when the mode is active.

With *[HOLD]* you activate the Hold mode of the trigger pads. In this mode, hitting a pad triggers the assigned function. To exit, the pad needs to be hit again. The button lights up when the mode is active.

With *[ROLL]* you activate the Pad Roll mode. If you hit and hold a pad in this mode, notes are sent until you release the pad again. The tempo is defined via parameters *'PAD ROLL TEMPO'* and *'PAD ROLL DIVIDER'* (internal synchronization) or the tempo set in your DAW software and *'PAD ROLL DIVIDER'* (external synchronization). The button lights up when the mode is active. The function is not available in 'Control messages' mode.

With *[MODE]* you toggle between the transmission modes of the trigger pads (note or controller commands). The button lights up in 'Controller commands' mode. No MIDI notes are transmitted in this mode. The Aftertouch function and the velocity of the pads are disabled.

Rotary encoder

When operating the encoders, the corresponding value is shown in the display of the keyboard. Turn the control clockwise to increase the displayed value or counterclockwise to decrease the displayed value (value range: 0 … 127).

The LED on the six o'clock position of the encoder is lit when the control is in centre position.

Fader

When operating the faders, the corresponding value is shown in the display of the keyboard. Pull the fader up to increase the displayed value or pull it down to decrease the displayed value (value range: 0 … 127).

The bottom LED of the LED chain of the faders is lit when the controller position does not coincide with the corresponding DAW software setting.

Function buttons BANK

The ◀ *[BANK]* ▶ function buttons underneath the *[MASTER]* fader allow a shift of eight channels to the right or left to be carried out with each press.

You can use these buttons in user scenes to change the MIDI channel on which the faders and rotary encoders send.

Function buttons TRACK

The ◀ *[TRACK]* ▶ function buttons shift the active channels to the left or right with each press.

Function buttons A1 … A8, B1 … B8, BTNE1 … BTNE8

In Toggle mode (*'T'*), you can use these function buttons to trigger an ON command (127) that is being cancelled with an OFF command (0) by pressing this button again.

In Momentary mode (*'M'*), you can use these function buttons to trigger an ON command (127) that is being cancelled with an OFF command (0) by releasing the button.

The button function can be assigned in Setup mode. When pressing the buttons, the associated settings are shown in the display of the keyboard.

Transport buttons

On delivery, the transport buttons are allocated with the default functions back, forward, stop, play and record. This allocation can be changed in Setup mode.

Button	Function	Command	Transmitted data	Type	Mode
◀◀	back	CC112, CH-	B0 74 7F/00	C	T
▶▶	forward	CC113, CH-	B0 75 7F/00	C	T
■	stop	CC114, CH-	B0 76 7F/00	C	T
▶	play	CC115, CH-	B0 77 7F/00	C	T
●	Record	CC116, CH-	B0 72 7F/00	C	T

Panic function

In case you hear unsolicited tones, press the transport buttons ‘back’ and ‘forward’ simultaneously to activate the Panic function. The Panic command is transmitted to all ports via all channels and resets all notes and controls. The display shows the message *‘PANIC’*.

The Panic function is not supported by all MIDI devices.

Firmware update

The device's current firmware can be found on our website (*www.thomann.de*) on the page relating to the device in question, in the "Update" section.

This process only works for computers with the MS Windows operating system.

1. Download the exe file with the update tool for your device from our website to your computer.
2. Switch off the device.
3. Connect the device via the USB interface to your computer.
4. To enter Update mode, hold function buttons *[A1]* and *[A2]* down and switch the device on.
5. Start the downloaded update tool on your computer and follow the tool's instructions.

7 MIDI routing

The data exchange between the keyboard and an external device is provided via two virtual USB inputs and two virtual USB outputs. The performance messages generated with the keyboard (keyboard, pads, wheels) are routed via USB out 1, all controller messages (faders, encoders, function and transport buttons) via USB out 2.

In addition, the keyboard offers a 5-pin MIDI output. Depending on the device setting, all messages routed to port 1 and 2 can also be routed to the MIDI out. For this purpose, the two parameters KBD MIDI OUT (for Port 1) and CONTROL MIDI OUT (for Port 2) must be set to ON (default setting) in the setup mode. Messages from an external MIDI device / DAW are routed via USB in 1 to MIDI out. Controller messages are present at ports 2 and are not forwarded.

CC	Description	Type		CC	Description	Type
0	Bank Select	Controller		22	Undefined	Controller
1	Modulation wheel	Controller		23	Undefined	Controller
2	Breath control	Controller		24	Undefined	Controller
3	Undefined	Controller		25	Undefined	Controller
4	Foot controller	Controller		26	Undefined	Controller
5	Portamento time	Controller		27	Undefined	Controller
6	Data Entry	Controller		28	Undefined	Controller
7	Channel Volume	Controller		29	Undefined	Controller
8	Balance	Controller		30	Undefined	Controller
9	Undefined	Controller		31	Undefined	Controller
10	Pan	Controller		32	Bank Select	Controller
11	Expression	Controller		33	Modulation wheel	Controller
12	Effect control 1	Controller		34	Breath control	Controller
13	Effect control 2	Controller		35	Undefined	Controller
14	Undefined	Controller		36	Foot controller	Controller
15	Undefined	Controller		37	Portamento time	Controller
16	General Purpose #1	Controller		38	Data entry	Controller
17	General Purpose #2	Controller		39	Channel Volume	Controller
18	General Purpose #3	Controller		40	Balance	Controller
19	General Purpose #4	Controller		41	Undefined	Controller
20	Undefined	Controller		42	Pan	Controller
21	Undefined	Controller		43	Expression	Controller

CC	Description	Type		CC	Description	Type
44	Effect control 1	Controller		74	Brightness	Controller
45	Effect control 2	Controller		75	Decay Time	Controller
46	Undefined	Controller		76	Vibrato Rate	Controller
47	Undefined	Controller		77	Vibrato Depth	Controller
48	General Purpose #1	Controller		78	Vibrato Delay	Controller
49	General Purpose #2	Controller		79	Vibrato Delay	Controller
50	General Purpose #3	Controller		80	General Purpose #5	Controller
51	General Purpose #4	Controller		81	General Purpose #6	Controller
52	Undefined	Controller		82	General Purpose #7	Controller
53	Undefined	Controller		83	General Purpose #8	Controller
54	Undefined	Controller		84	Portamento Control	Controller
55	Undefined	Controller		85	Undefined	Controller
56	Undefined	Controller		86	Undefined	Controller
57	Undefined	Controller		87	Undefined	Controller
58	Undefined	Controller		88	Undefined	Controller
59	Undefined	Controller		89	Undefined	Controller
60	Undefined	Controller		90	Undefined	Controller
61	Undefined	Controller		91	Reverb Send Level	Controller
62	Undefined	Controller		92	Tremolo Depth	Controller
63	Undefined	Controller		93	Chorus Send Level	Controller
64	Damper pedal	Controller		94	Celeste/Detune Depth	Controller
65	Portamento on/off	Controller		95	Phaser Depth	Controller
66	Sostenuto on/off	Controller		96	Data entry +1	Controller
67	Soft pedal on/off	Controller		97	Data entry -1	Controller
68	Legato Footswitch	Controller		98	NRPN LSB	Controller
69	Hold 2	Controller		99	NRPN MSB	Controller
70	Sound Variation	Controller		100	RPN LSB	Controller
71	Timbre/Harmonic Intens.	Controller		101	RPN MSB	Controller
72	Release Time	Controller		102	Undefined	Controller
73	Attack Time	Controller		103	Undefined	Controller

CC	Description	Type		CC	Description	Type
104	Undefined	Controller		134	Low Pass Filter Cutoff Frequency	NRPN
105	Undefined	Controller		135	Low Pass Filter Resonance	NRPN
106	Undefined	Controller		136	High Pass Filter Cutoff Frequency	NRPN
107	Undefined	Controller		137	EQ Low Gain	NRPN
108	Undefined	Controller		138	EQ High Gain	NRPN
109	Undefined	Controller		139	EQ Low Frequency	NRPN
110	Undefined	Controller		140	EQ High Frequency	NRPN
111	Undefined	Controller		141	EG Attack Time	NRPN
112	Undefined	Controller		142	EG Decay Time	NRPN
113	Undefined	Controller		143	EG Release Time	NRPN
114	Undefined	Controller		144	Channel Pressure	After Touch
115	Undefined	Controller		145	Program Change	Others
116	Undefined	Controller		146	Song Select(Song #)	Others
117	Undefined	Controller		147	Tune request	Others
118	Undefined	Controller		148	Start	Others
119	Undefined	Controller		149	Continue	Others
120	All Sound Off	Controller		150	Stop	Others
121	Reset All Controllers	Controller		151	System Reset	Others
122	Local control on/off	Controller		152	Master Volume	SysE
123	All notes off	Controller		153	Master Balance	SysE
124	Omni mode off	Controller		154	GM ON	SysE
125	Omni mode on	Controller		155	XG ON	SysE
126	Poly mode off	Controller		156	GS ON	SysE
127	Poly mode on	Controller		157	GM2 ON	SysE
128	Pitch Bend Sensitivity	RPN		158	Stop	MMC
129	Fine Tuning	RPN		159	PLAY	MMC
130	Coarse Tuning	RPN		160	DEFERRED PLAY	MMC
131	Vibrato Rate	NRPN		161	FORWARD	MMC
132	Vibrato Depth	NRPN		162	REWIND	MMC
133	Vibrato Delay	NRPN		163	RECORD STROBE	MMC

CC	Description	Type		CC	Description	Type
164	RECORD EXIT	MMC		168	CHASE	MMC
165	RECORD PAUSE	MMC		169	COMMAND ERROR RESET	MMC
166	PAUSE	MMC		170	MMC RESET	MMC
167	EJECT	MMC		171	Pitch Bend	Pitch Bend

8 Factory defaults

Controller	Type	Message	Type	Mode
E1	Encoder	CC: 10 Pan, Ch 1	–	–
E2	Encoder	CC: 10 Pan, Ch 2	–	–
E3	Encoder	CC: 10 Pan, Ch 3	–	–
E4	Encoder	CC: 10 Pan, Ch 4	–	–
E5	Encoder	CC: 10 Pan, Ch 5	–	–
E6	Encoder	CC: 10 Pan, Ch 6	–	–
E7	Encoder	CC: 10 Pan, Ch 7	–	–
E8	Encoder	CC: 10 Pan, Ch 8	–	–
S1	Slider	CC: 7 Volume, Ch 1	–	–
S2	Slider	CC: 7 Volume, Ch 2	–	–
S3	Slider	CC: 7 Volume, Ch 3	–	–
S4	Slider	CC: 7 Volume, Ch 4	–	–
S5	Slider	CC: 7 Volume, Ch 5	–	–
S6	Slider	CC: 7 Volume, Ch 6	–	–
S7	Slider	CC: 7 Volume, Ch 7	–	–
S8	Slider	CC: 7 Volume, Ch 8	–	–
S9	Slider	CC: 152	–	–
A1	Button	CC: 16, Ch -	C	T
A2	Button	CC: 17, Ch -	C	T
A3	Button	CC: 18, Ch -	C	T
A4	Button	CC: 19, Ch -	C	T
A5	Button	CC: 20, Ch -	C	T
A6	Button	CC: 21, Ch -	C	T
A7	Button	CC: 22, Ch -	C	T
A8	Button	CC: 23, Ch -	C	T
B1	Button	CC: 24, Ch -	C	T
B2	Button	CC: 25, Ch -	C	T
B3	Button	CC: 26, Ch -	C	T
B4	Button	CC: 27, Ch -	C	T
B5	Button	CC: 28, Ch -	C	T

Controller	Type	Message	Type	Mode
B6	Button	CC: 29, Ch -	C	T
B7	Button	CC: 30, Ch -	C	T
B8	Button	CC: 31, Ch -	C	T
BTNE1	Button	CC:10 , Ch-01	C	T
BTNE2	Button	CC:10 , Ch-02	C	T
BTNE3	Button	CC:10 , Ch-03	C	T
BTNE4	Button	CC:10 , Ch-04	C	T
BTNE5	Button	CC:10 , Ch-05	C	T
BTNE6	Button	CC:10 , Ch-06	C	T
BTNE7	Button	CC:10 , Ch-07	C	T
BTNE8	Button	CC:10 , Ch-08	C	T
Aftertouch	Aftertouch	Channel Aftertouch	–	–
Pedal	Pedal	CC: 64 Sustain	C	M
P1-BANK A	Pad	NOTE: 36, Ch 10	N	M
P2-BANK A	Pad	NOTE: 37, Ch 10	N	M
P3-BANK A	Pad	NOTE: 38, Ch 10	N	M
P4-BANK A	Pad	NOTE: 39, Ch 10	N	M
P5-BANK A	Pad	NOTE: 40, Ch 10	N	M
P6-BANK A	Pad	NOTE: 41, Ch 10	N	M
P7-BANK A	Pad	NOTE: 42, Ch 10	N	M
P8-BANK A	Pad	NOTE: 43, Ch 10	N	M
P1-BANK B	Pad	NOTE: 52 Ch 10	N	M
P2-BANK B	Pad	NOTE: 53 Ch 10	N	M
P3-BANK B	Pad	NOTE: 54 Ch 10	N	M
P4-BANK B	Pad	NOTE: 55 Ch 10	N	M
P5-BANK B	Pad	NOTE: 56 Ch 10	N	M
P5-BANK B	Pad	NOTE: 57 Ch 10	N	M
P7-BANK B	Pad	NOTE: 58 Ch 10	N	M
P8-BANK B	Pad	NOTE: 59 Ch 10	N	M

9 Other presets

Parameter	Setting	Value range
Bank	1	(1-2)
Channel	1	(1-9)
Pad Bank	A	A/B
Scene	PO1	P1-P30

10 Note values

Octave	Note Numbers											
	C	C#	D	D#	E	F	F#	G	G#	A	A#	B
-1	0	1	2	3	4	5	6	7	8	9	10	11
0	12	13	14	15	16	17	18	19	20	21	22	23
1	24	25	26	27	28	29	30	31	32	33	34	35
2	36	37	38	39	40	41	42	43	44	45	46	47
3	48	49	50	51	52	53	54	55	56	57	58	59
4	60	61	62	63	64	65	66	67	68	69	70	71
5	72	73	74	75	76	77	78	79	80	81	82	83
6	84	85	86	87	88	89	90	91	92	93	94	95
7	96	97	98	99	100	101	102	103	104	105	106	107
8	108	109	110	111	112	113	114	115	116	117	118	119
9	120	121	122	123	124	125	126	127				

11 Technical specifications

Swissonic ControlKey 49

Keyboard	49 semi-weighted keys and adjustable touch velocity
Connections	1 × USB 1 × MIDI OUT 2 × PEDAL (1/4" jack)
Operating voltage supply	via USB cable or DC 9 V power adapter ⎓
Dimensions (W × H × D)	825 mm × 87 mm × 320 mm
Weight	7.50 kg

Swissonic ControlKey 61

Keyboard	61 semi-weighted keys and adjustable touch velocity
Connections	1 × USB 1 × MIDI OUT 2 × PEDAL (1/4" jack)
Operating voltage supply	via USB cable or DC 9 V power adapter ⎓
Dimensions (W × H × D)	911 mm × 87 mm × 320 mm
Weight	8.61 kg

Swissonic ControlKey 88

Keyboard	88 semi-weighted keys and adjustable touch velocity
Connections	1 × USB 1 × MIDI OUT 2 × PEDAL (1/4" jack)
Operating voltage supply	via USB cable or DC 9 V power adapter ⎓
Dimensions (W × H × D)	1,283 mm × 87 mm × 320 mm
Weight	11.76 kg

12 Troubleshooting

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

Problem	Possible causes and solutions
No power supply	Check the USB cable for proper connection. Connect the MIDI keyboard via the supplied USB cable to a computer for power supply. or Check the 9 V power adapter for proper connection. Connect the MIDI keyboard via an optional 9V power supply to an AC outlet for power supply.
No sound when pressing keys	Check hard and software for volume settings: Computer, sound module, connected speakers. Check MIDI and audio connections. Check channel settings. Check sequencer settings. Correct settings if necessary and / or establish connections correctly.
Expression pedal not reacting	The device is designed exclusively for stereo pedals with the required control range of 0 … 10 kΩ Always start by connecting the pedal. Then connect the keyboard, and then start up the software. If needed, reset the keyboard using *[RESET ALL]*.
Continuous tone	Toggle the sustain pedal polarity (if possible). Try disconnecting the sustain pedal. Make sure that the sustain pedal is not pressed when switching on. Check the MIDI filter settings on the tone generator or in the software. Reset the keyboard with *[RESET ALL]* or *[ALL NOTES OFF]* .
Wrong pitch	Reset the transposed or octaved keyboard. Reset the active MIDI pitch.

The troubleshooting information does not claim to be complete.

13 Protecting the environment

Disposal of the packaging material

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

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

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

Disposal of your old device

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

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

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