iCON Pro Audio

iKEYBOARD S

25/37/49/61/88-note velocity-sensitive piano-style keys USB MIDI controller keyboard with 24bit/192KHz audio interface build in

iKeyboard 3S

iKeyboard 4S

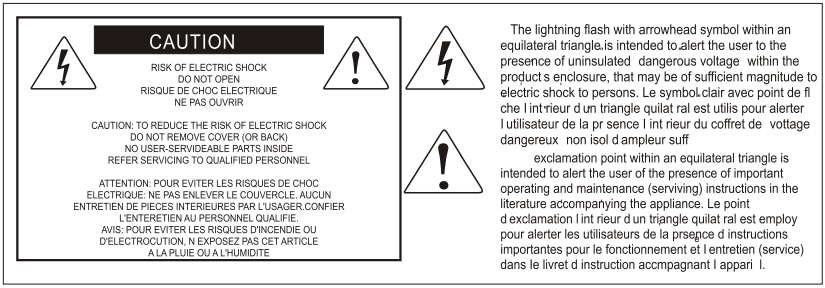
iKeyboard 5S

iKeyboard 6S

iKeyboard 8S

User manual

DER GRÜNE PUNKT CE FC CN1630



Important Safety Instructions

1. Read this manual thoroughly before using this unit.
2. Keep this manual for future reference.
3. Take notice of and comply with all warnings included in the user's manual or indicated on the appliance.
4. Follow all instructions included in this manual.
5. Do not expose this unit to rain or moisture. Avoid having water or other liquids spilled on this unit.
6. When cleaning the cabinet or other parts of this appliance, use only a dry or slightly damp soft cloth.
7. Do not block any ventilation openings or interfere with the proper ventilation of this unit. Install in accordance with the manufacturer's instructions.
8. Do not use or store near any heat sources such as radiators, heat registers, stoves, or other heat-producing appliances.
9. Do not interfere with the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. These are designated for your safety. If the provided plug does not fit into your outlet, consult an electrician.
10. Protect the power cord from being walked on or otherwise damaged by items placed on or against them. Particular attention should be given to the plugs, receptacles, and the point where the cord exits the appliance.
11. To avoid the risk of electrical shock, do not touch any exposed wiring while the unit is in operation.
12. Only use attachments/accessories specified by the manufacturer.
13. Unplug this unit and all connected electrical equipment during lightning storms or when left unused a long period of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the appliance has been damaged in any way or fails to operate normally.

WARNING: To reduce the risk of fire or electric shock, do not expose this unit to rain or moisture

Contents

Introduction

Thank you for purchasing the ICON iKeyboard 3S / iKeyboard 4S / iKeyboard 5S / iKeyboard 6S / iKeyboard 8S USB MIDI controller. We sincerely trust this product will provide years of satisfactory service, but if anything is not to your complete satisfaction, we will endeavor to make things right.

In these pages, you'll find a detailed description of the features of the iKeyboard 3S / iKeyboard 4S / iKeyboard 5S / iKeyboard 6S / iKeyboard 8S, as well as a guided tour through its front and side panels, step-by-step instructions for its setup and use, and full specifications.

You'll also find a warranty card enclosed---please don't forget to fill it out and mail it so that you can receive online technical support at: www.iconproaudio.com. And so we can send you updated information about these and other ICON products in the future. As with most electronic devices, we strongly recommend you retain the original packaging. In the unlikely event the product must be returned for servicing, the original packaging (or reasonable equivalent) is required.

With proper care and adequate air circulation, your iKeyboard 3S / iKeyboard 4S / iKeyboard 5S / iKeyboard 6S / iKeyboard 8S will operate without any trouble for many years. We recommend that you record your serial number in the space provided below for future reference.

Please write your serial number here for future reference:

Purchased at:

Date of purchase:

What's in the package?

- iKeyboard 3S / iKeyboard 4S / iKeyboard 5S / iKeyboard 6S / iKeyboard 8S -25/37/49/61/88-note velocity-sensitive piano-style keys USB MIDI controller keyboard x 1
- CD x 1

  App software – iMap (Mac & Windows)

  User manual & QSG

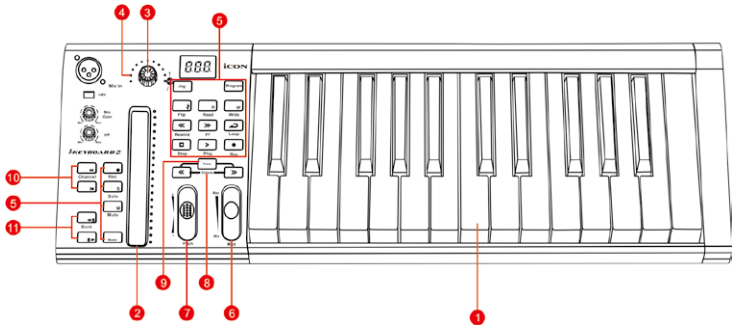
  DAW software – Samplitude Pro X2 Silver ICON edition
- Quick Start Guide x 1
- USB 2.0 cable x 1

Features

- Powerful controller is equipped and easy setup with Mackie Control and HUI protocol
- 24-Bit 96/192KHz 2-In/2-Out USB Recording Interface
- 2x2 analog I/O full duplex recording and playback
- 1 mic input with individual gain control
- 2 analog inputs and 2 analog outputs on 1/4” TRS jacks
- Backlit LED touch fader reacts in real-time with DAW. Synchronize automatically with different channel value when switching between channels
- Dual function encoder knob (Enter & rotate)
- 11-segment LED surrounding the encoder to indicate the rotating position
- Velocity-sensitive piano style keyboard
- Modulation and Pitch jog-wheel
- 3-segment LED screen
- 18 assignable LED backlit buttons
- Illuminated channel buttons including Rec-enable, Solo and Mute
- 6 illuminated transport buttons including Play, Stop, Rec, Rewind, Fast forward and Loop
- Single Transpose button use combine with keyswitch to shift pitch effectively.
- Octave up/down buttons
- Multi velocity curves available for selection (Key and Pads)
- Midi output jack
- 1 headphone output with assignable source and individual volume control
- Expression & sustain pedal TRS connectors
- Flexible channel routing via the software control panel
- Supports DirectSound, WDM and ASIO2.0
- Full duplex, simultaneous record/playback

- Mackie control build-in for Cubase, Nuendo, Samplitude, Logic Pro, Bitwig, Reasons, Reaper, Studio One and Ableton Live
- Mackie HUI protocol build-in for Pro Tool
- Driver build-in for Cubase, Nuendo, Bitwig and Reasons for plug and play
- iMap™ software included for easy mapping of MIDI functions
- Firmware upgrade available simply via USB connection and iMap software
- Compatible with Mac OS (Intel-Mac) and Windows XP, Vista (32-bit/64-bit), Windows 7 (32-bit/64-bit), Windows 10 (32-bit/64-bit) & Windows 8 (32-bit/64-bit)
- USB 2.0 high speed connectivity
- Robust metal casing with Kensington lock port

Front Panel Layout



Note: *Functions operate slightly differenently between DAWs. Please refer to your DAW manual for each function. The following description is based on the functions that operate in Apple Logic.*

Keyboard Controls

1. 25/37/49/61/88-note key switches

25/37/49/61/88-note velocity-sensitive piano-action key switches.

2. Backlit LED touch fader to control DAW's Channel/Master faders

The touch fader could be used to adjust the parameter of different channels. Press the two "Track or Bank" shifting buttons to shift between channels. Also, by pressing the "Master" button, the fader will change to control the parameters of the master channel.

3. Dual function encoders

The dual functioned encoder acting as a push-button and a rotary control. When an encoder is pressed, it may be used to change modes of operation or to change what appears in the display above the channel strips. When an encoder is rotated, depending on its assigned function, it can be used to adjust a channel's pan, send level, or plug-in parameters.

4. Encoder LED

The 11-LED surrounding the encoder lights up to indicate the relative position of the rotation without having to look at your computer.

5. Control buttons

Recording channel control buttons section

REC button - Activate and deactivate the recording state of the associated channel. The switch will light red when the channel is armed.

SOLO button - Turn On and Off the solo state of the associated channel. The switch will light green when the channel solo state is on and other channels will be muted. You could solo multiple channel by pressing SOLO buttons on additional channels.

MUTE button - Activate and deactivate the mute state of the associated channel. The switch will light blue when the channel is muted.
Master button - Switch the touch fader to control the DAW master fader.

Transport control buttons section

PLAY button - Activate the play function of the DAW.
STOP button - Activate the stop function of the DAW.
REC button - Activate the record function of the DAW.
REWIND button - Activate the rewind function of the DAW.
FAST FORWARD button - Activate the fast forward function of the DAW.
LOOP button - Activate the loop function of the DAW.

Automation section

READ button - Press the READ button to activate the read function of the current audio track.
WRITE button - Press the WRITE button to activate the write function of the current audio track.

Other control buttons

Jog button - Activate to use the encoder as a jog wheel.
The jog wheel is used for various purposes specific to the DAW application, including shuttle and scrubbing functions.
Program button - Use together with the encoder to change the sound bank of your soft-synth.
*(**Tip:** Please refer to Appendix A for Mackie Control and HUI protocol functions.)*

6. Modulation jogwheel

Rotate to adjust the modulation effect.

7. Pitch jogwheel

Rotate to adjust the pitch bend. It returns to default, “0” when released.

8. Octave buttons

Raise or lower the pitches played on your keyboard.

9. Transpose button

Raise or lower the pitches (by less than an octave) played on your keyboard.

*(**Tip:** While pressing and holding the “Transpose” button, press a keyswitch within an octave range from the original c1 position) to change the c1 to that particular switch.)*
***Note:** Only the first zone could be changing the pitch if several zones are set.*

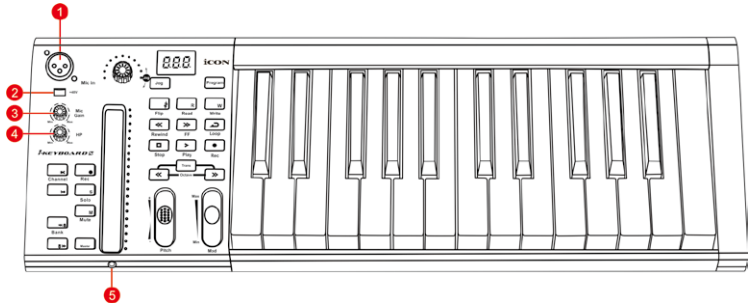
10. Channel </> buttons

Track <	Shift “one” channel up for all faders (except the master channel).
Track >	Shift “one” channel down for all faders (except the master channel).

11. Bank </> buttons

Bank <	Shift “eight” channels up for all faders (except the master channel).
Bank >	Shift “eight” channels down for all faders (except the master channel).

Audio recording interface



1. Mic input

Unbalanced mic level input. This connector will accept a standard 3-pin XLR plug.

2. 48V phantom power switch

Press to supply +48V phantom power to the associated XLR input. This phantom power circuit is suitable for most condenser microphones.

3. Input gain level control

This potentiometer controls the input level of the analog microphone input.

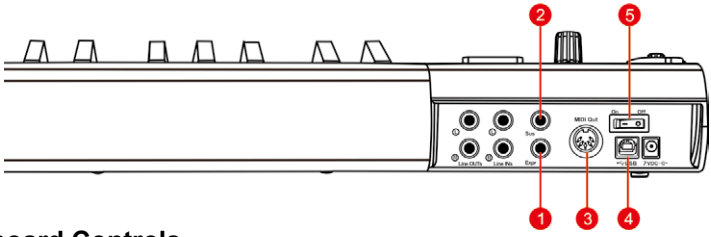
4. Headphone level control

This potentiometer controls the output level of the headphone output.

5. Headphone output

This output jack accepts a standard 1/4″ stereo TRS headphone connector.

Rear panel layout



Keyboard Controls

1. Expression Pedal Input

A standard expression pedal can be connected via this 1/4” input.

2. Sustain Pedal Input

This 1/4” jack can be used to connect a momentary footswitch, like a piano's sustain pedal. (ICON SPD-01)

3. Midi Out Port

Use the MIDI Out terminal to connect an external synthesizer or sound module.

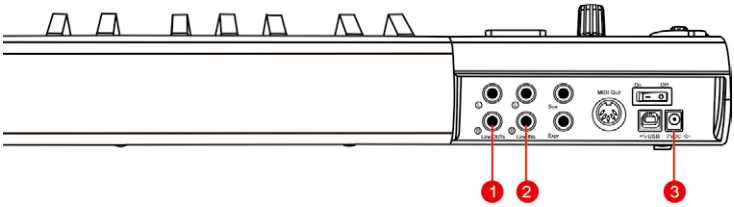
4. USB port

Functions as a MIDI port to your notebook (or computer) and compatible software.

5. Power switch

Power switch for your iKeyboard S.

Audio recording interface



1. Line outputs 1/2

These are unbalanced analog outputs on standard 1/4″ TS connectors at +6dBU line level.

2. Line inputs 1/2

These are unbalanced analog inputs on standard 1/4″ TS connectors at –10dB line level.

3. 7VDC/1A power adaptor

Connect the provided power adaptor here.

Note: iKeyboard S is not able to work without the provided power adaptor connected. The USB bus power is not able to provide sufficient power supply for iKeyboard S.

Getting Started

1. **Install iKeyboard S audio driver (WDM & ASIO) to your Mac or PC by following the below installation steps:**

   Note: *Please do not connect your iKeyboard S to your computer at this state.*

Mac driver installation

iKeyboard S is plug and play for its audio driver on Mac and no audio driver installation is needed.

Windows driver installation

Please follow the step-by-step procedures below to install your ikeyboard S series USB recording interface and its driver.

(1) Turn on your computer

*(**Note:** Do not connect the iKeyboard S digital audio interface to your computer yet.)*

(2) Insert the Driver CD into your CD-Rom

After you have inserted the provided Driver CD into your CD-Rom, an Installation screen should appear as shown in Diagram 1, then click "Windows Driver" for the driver installation".

Note: *If the Installation screen does not appear automatically. Go to the CD folder and double click "Setup"*

Diagram 1

(3) Installation Wizard appears

Choose "Next" when you see the Welcome Screen shown in Diagram 2.

Diagram 2

(4) License Agreement

Check mark the “I accept the terms in the License Agreement” and click “Next”.

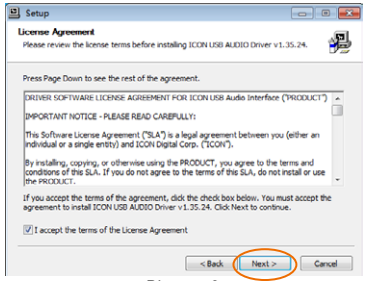


Diagram 3

(5) Confirm driver installation

A confirmation on the driver installation screen will appear, click “Next”.

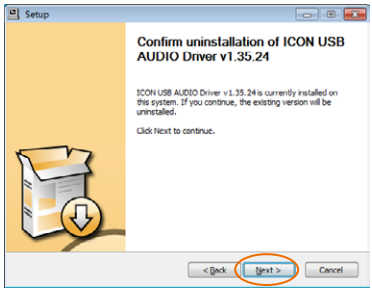


Diagram 4

(6) Driver setup

Choose the location of the driver and click "Next" as shown in Diagram 5.

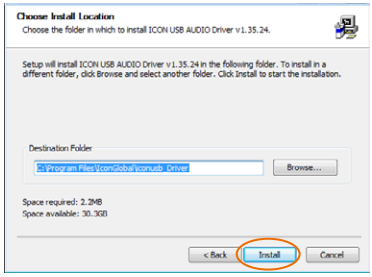


Diagram 5

(7) Installation start

The installation process has started. The process may take some time depending on your computer performance; please be patient and wait for the process to finish.

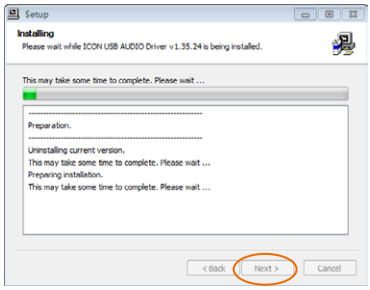


Diagram 6

(8) Software installation window

A window as shown in Diagram 7 should appear. Choose "Install this driver software anyway".

Note: *Although this message appears, the iKeyboards S driver is fully tested and supports Windows XP, Vista, Windows 7 & Windows 8.*

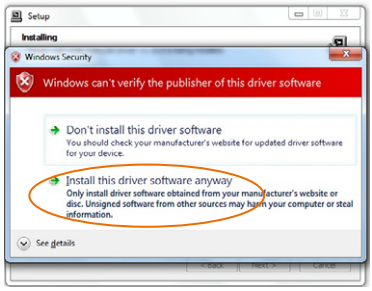


Diagram 7

(9) Setup completed

A window as shown in Diagram 8 should appear. Choose "Next".

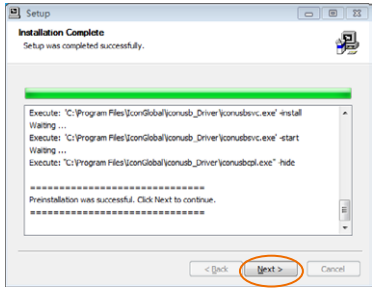


Diagram 8

2. *Connecting your iKeyboard S controller*

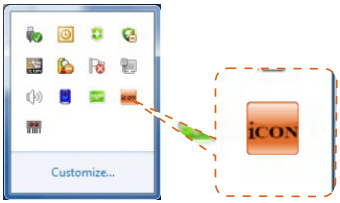
Connect the ikeyboard S to your Mac/PC via the USB port.
Choose a USB port on your Mac/PC and insert the wide (flat) end of the USB cable.
Connect the cable's small jack end to the iKeyboard S. Your Mac/PC should automatically "see" the new hardware and notify you that it is ready to use.

3. *Make the audio setting for your iKeyboard S audio recording interface*

Windows

3.1 Launch the software control panel

You may click the iKeyboard S logo on the system tray to launch the software control panel.



Software control panel

3.2 Sample rate settings

Select your desired sampling rate from 44.1 kHz to 192 kHz on the pull down window shown in Diagram 9. Click "Apply" after the selection has been made to set the value.

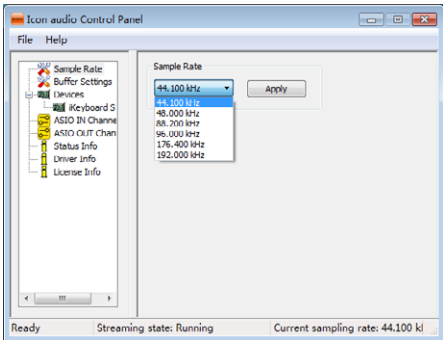
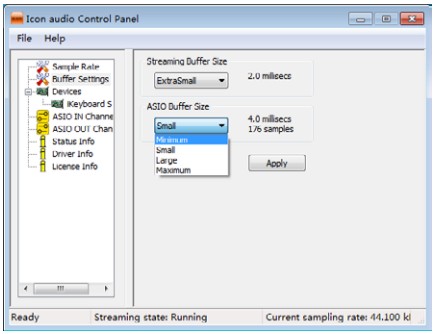


Diagram 9

3.3 Buffer Size settings

You may select the buffer size for "Streaming" and "ASIO". Click "Apply" after you have made the selections.

*(**Note:** If a clicking sound occurs, you should change to a larger buffer size for the settings. If the largest buffer size has been selected and there is still a clicking sound, it means your computer performance is not able to handle the task. (It is not caused by the iKeyboard S digital audio interface.)*



Device settings

Shows the serial number & product ID of your iKeyboard S device. If it doesn't show, it means your device is not properly installed. Please go through the “Driver Installation” process again (Page 11).

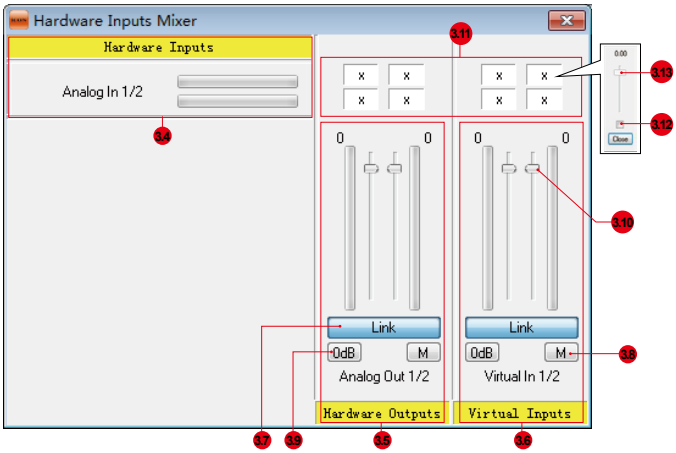
Monitor Mixer

Click this button to launch the "Monitor Mixer" (Page 15).

Playback Mixer

Click this button to launch the "Playback Mixer" (Page 16).

Monitor Mixer



3.4 Hardware inputs level metering

Ch 1,2 input level metering

Shows the input level for the hardware input channel.

3.5 Hardware outputs level metering

Ch 1,2 output level metering

Shows the output level for the hardware output channel.

3.6 Virtual inputs level metering

Virtual1,2 input level metering

Shows the input level for the virtual input channel.

3.7 Link switch

Switch to adjust both channel levels simultaneously.

3.8 Mute switch

Switch to mute the corresponding channel.

3.9 “0dB” switch

Switch to instantly adjust the corresponding channel to “0dB” level.

3.10 Gain control fader

Slide to adjust the gain level for the corresponding channel.

3.11 Inputs & Outputs Matrix switches

Switch to turn On/Off the corresponding hardware input channel route to the corresponding hardware output channel. The matrix is very useful and makes your inputs and outputs very flexible. You may route any of your input(s) to any output(s).

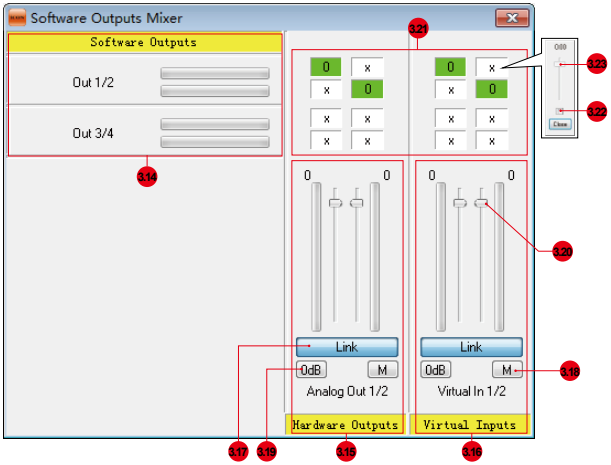
3.12 Inputs & Outputs Matrix Mixer

"Check" the box to activate the mixer.

3.13 Inputs & Outputs Matrix Mixer Gain Control

Adjust the gain for the corresponding hardware channel. After finishing the adjustment, click "Close" to close the window.

Playback Mixer



3.14 Software outputs level metering

Ch 1,2 output level metering

Shows the input level for the software input channel.

3.15 Hardware outputs level metering

Ch 1,2 output level metering

Shows the output level for the hardware output channel.

3.16 Virtual inputs level metering

Virtual1,2 input level metering

Shows the input level for the virtual input channel.

3.17 Link switch

Switch to adjust both channel levels simultaneously.

3.18 Mute switch

Switch to mute the corresponding channel.

3.19 “0dB” switch

Switch to instantly adjust the corresponding channel to “0dB” level.

3.20 Gain control fader

Slide to adjust the gain level for the corresponding channel.

3.21 Inputs & Outputs Matrix switches

Switch to turn On/Off the corresponding hardware input channel route to the corresponding hardware output channel. The matrix is very useful and makes your inputs and outputs very flexible. You may route any of your input(s) to any output(s).

3.22 Inputs & Outputs Matrix Mixer

"Check" the box to activate the mixer.

3.23 Inputs & Outputs Matrix Mixer Gain Control

Adjust the gain for the corresponding hardware channel. After finishing the adjustment, click "Close" to close the window.

4 Installing iMap™ Software to your Mac/PC

Installing iMap™ Software for MAC OSX

Please follow the procedures below step-by-step to install your iMap™ software to Mac OSX.

① Turn on your MAC

② Insert the Utility CD in your CD-Rom

After you have inserted the CD into your CD-Rom, an installation CD icon should appear in desktop; click the icon to start the install wizard.

Diagram 10

③ Setup Wizard appear

Setup wizard appears, please click "Continue"

Diagram 11

④ Choose Install Location

Select a destination to install iMap™ software to Mac OS X, then click "Continue".

Diagram 12

⑤ Select shortcut

If you want to change install location, please click "Change Install Location" button and select another location or just click "Install" button to continue.

Diagram 13

⑥ Input Administrator information

To install iMap™ software, you need to input administrator user information, please input the name and password of administrator then click "Install" to continue.

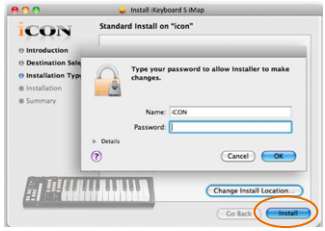


Diagram 14

⑦ Installation finished

Click "Close" to complete the iMap™ software installation.

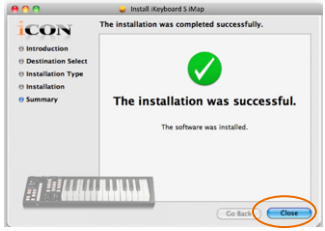


Diagram 15

Installing iMap™ Software for Windows

Please follow the procedures below step-by-step to install your iMap™ software.

① Turn on your PC

② Insert the Utility CD in your CD-Rom

After you have inserted the CD into your CD-Rom, an installation screen should appear as shown in diagram 16; click “Install”.

*(**Note:** if the installation screen not appear automatically go to the CD folder and double click on “Setup”)*

Diagram 16

③ Setup Wizard appear

Setup wizard appears, please click “Next”.

Diagram 17

④ Choose Install Location

Choose your preferred install location for iMap™ or use the default location and click “Next”.

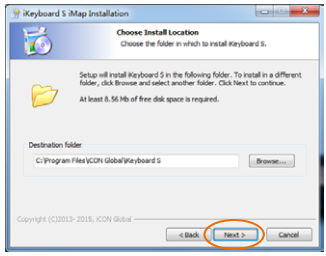


Diagram 18

⑤ Select shortcut

Select the start menu folder in which you would like to create the iMap™ shortcut. Then click “Next”.

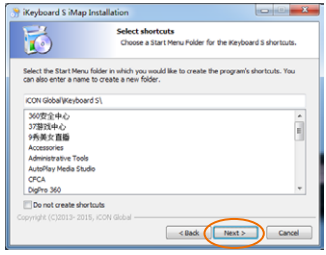


Diagram 19

⑥ Create a shortcut on your desktop

Please untick the box if you do not want to place a shortcut icon on your desktop for iMap™, otherwise click “Next”.

Diagram 20

⑦ iMap™ started to install

The iMap™ installation has now started, wait for it to finish. Then click “Finish”.

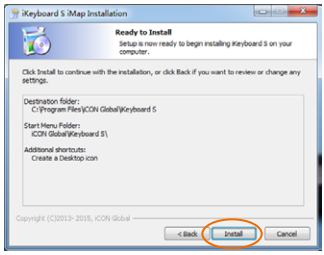


Diagram 21

⑧ Installation finished

Click “Finish” to complete the iMap™ software installation.

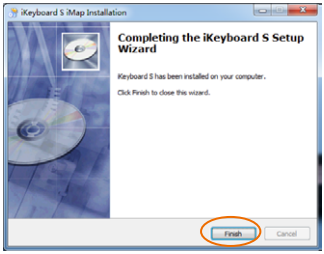


Diagram 22

5. Mode select & assign the MIDI messages to iKeyboard S with iMap software

Select Mackie Control or HUI mode from the pull down menu for pre-mapped MIDI mapping.

Select User Defined mode for self MIDI assignment. Refer to page.37 for “Assign the MIDI messages with “iMap™” software.

Tip: Make sure you have selected the correct DAW mode in the pull down menu.

6. Setup your DAW

(For Cubase™, Nuendo™, Bitwig™ & Reason™)

Activate the ICON iKeyboard 3S / iKeyboard 4S / iKeyboard 5S / iKeyboard 6S / iKeyboard 8S controller in your DAW or MIDI software using “MIDI Setup” or “MIDI Devices”.

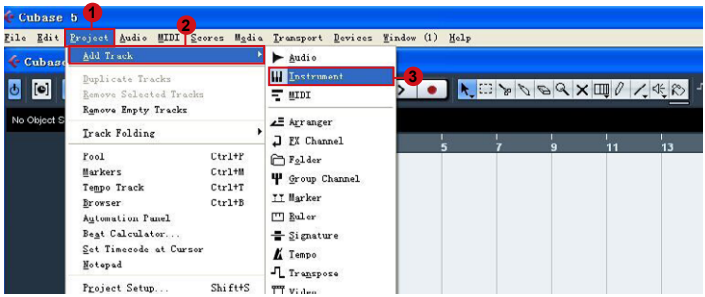
(For Logic™, Samplitude™, Ableton Live & Reaper , choose Mackie Control at the “Device List”.)

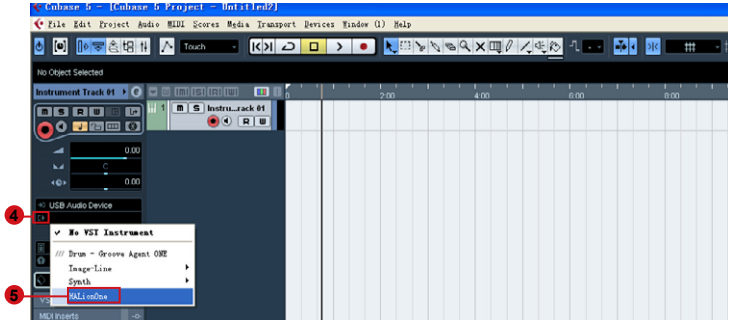
(For Pro Tools™, choose HUI at the “Device List”.)

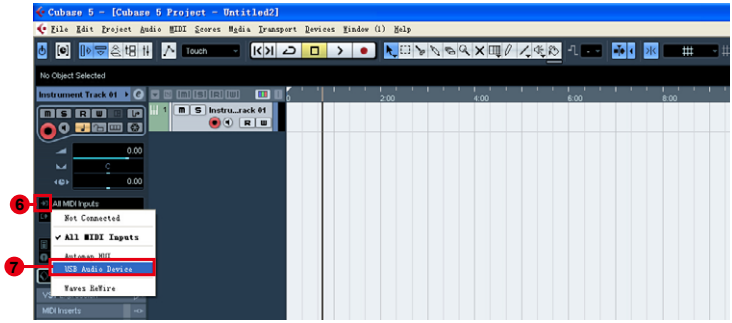
(Note: Every application does this a little different, so refer to your software user manual for the settings.)

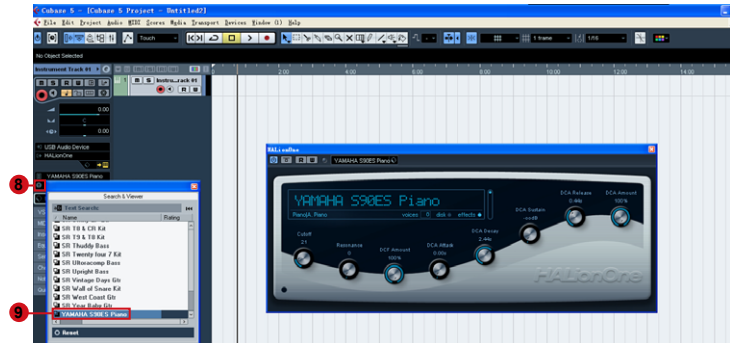
(Tip: Please refer to Appendix A for Mackie Control and HUI protocol functions.)

Cubase (ICON·DRIVER)

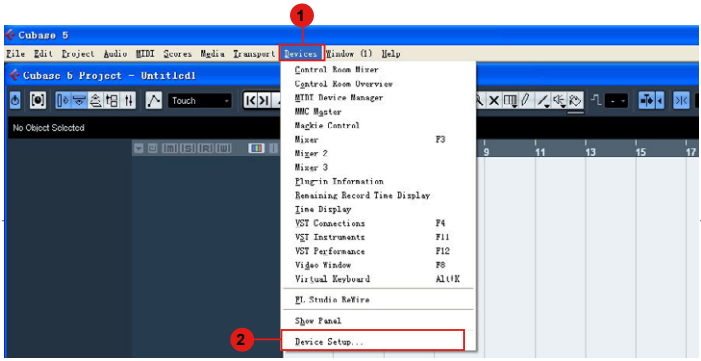


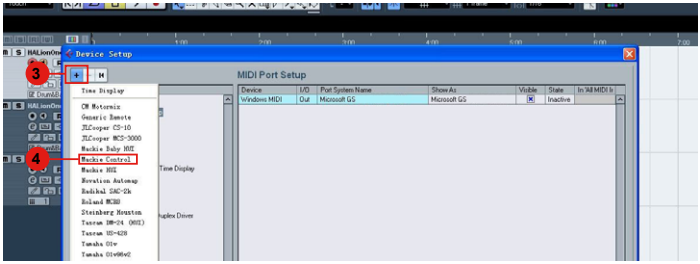


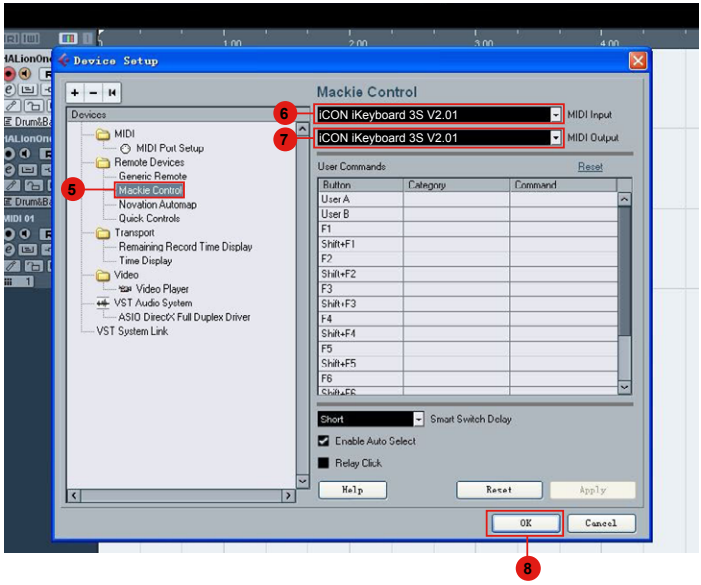




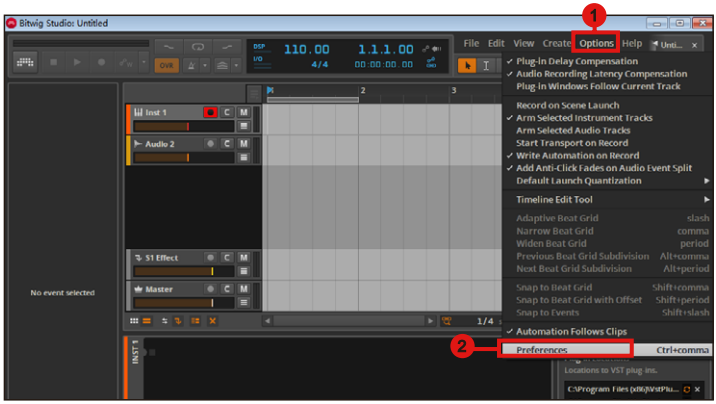
Cubase (Mackie Control)

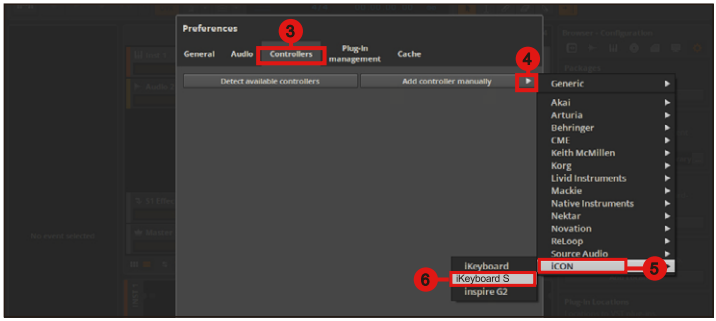


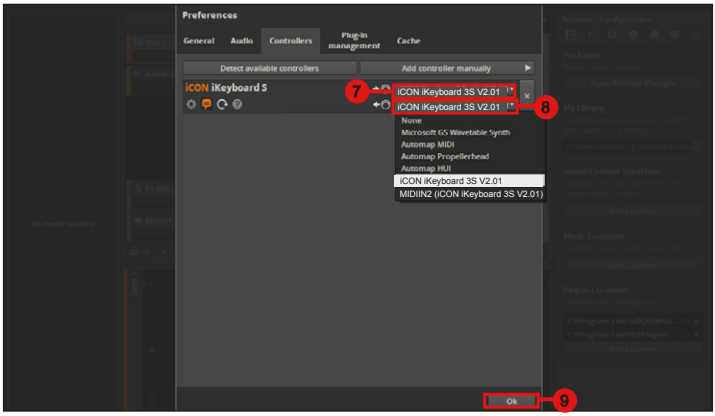




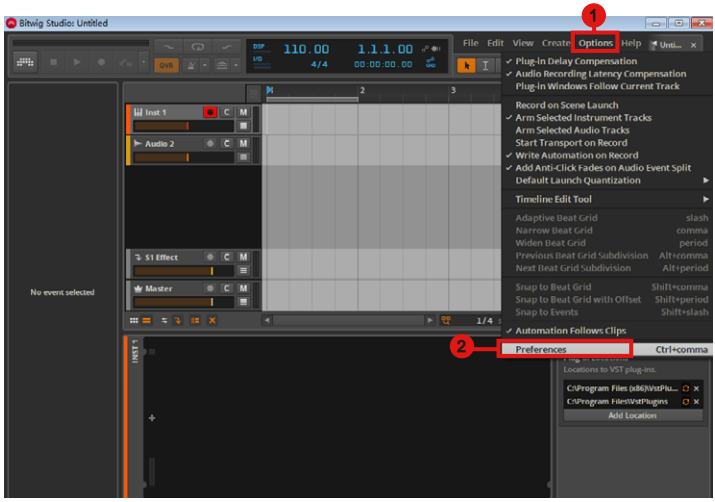
Bitwig (ICON·DRIVER)

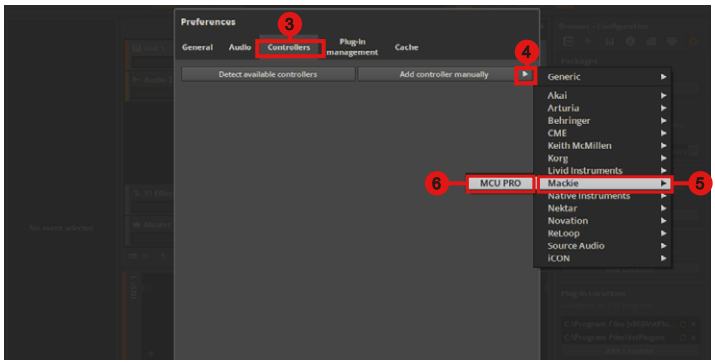


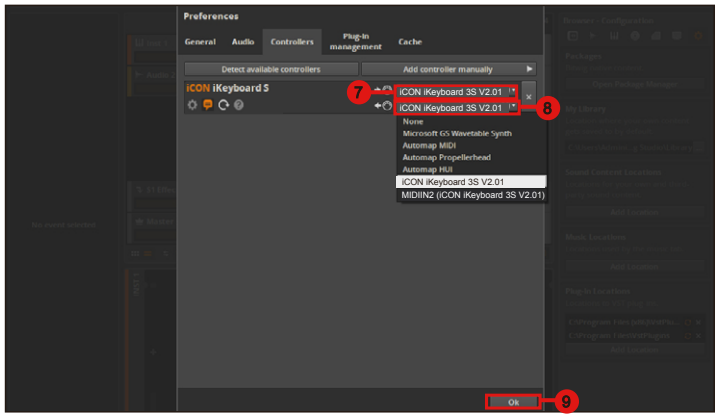




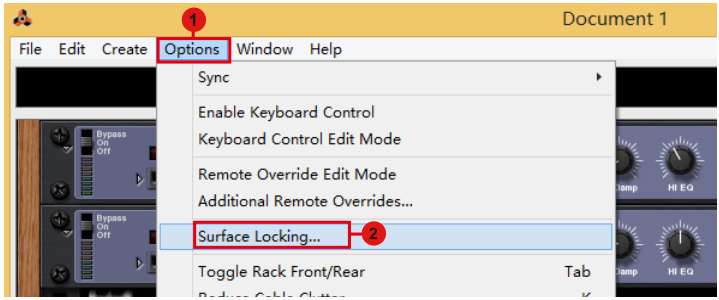
Bitwig (Mackie Control)

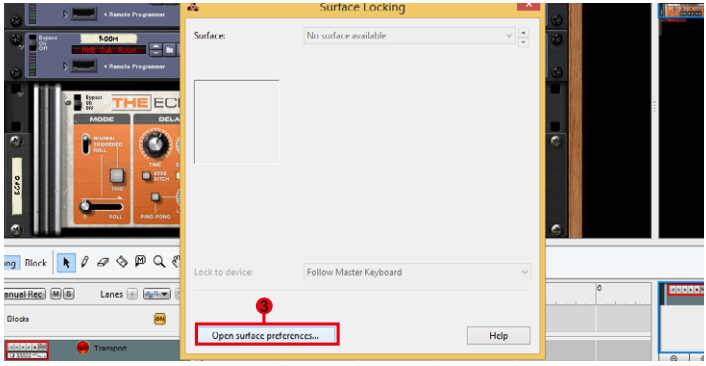


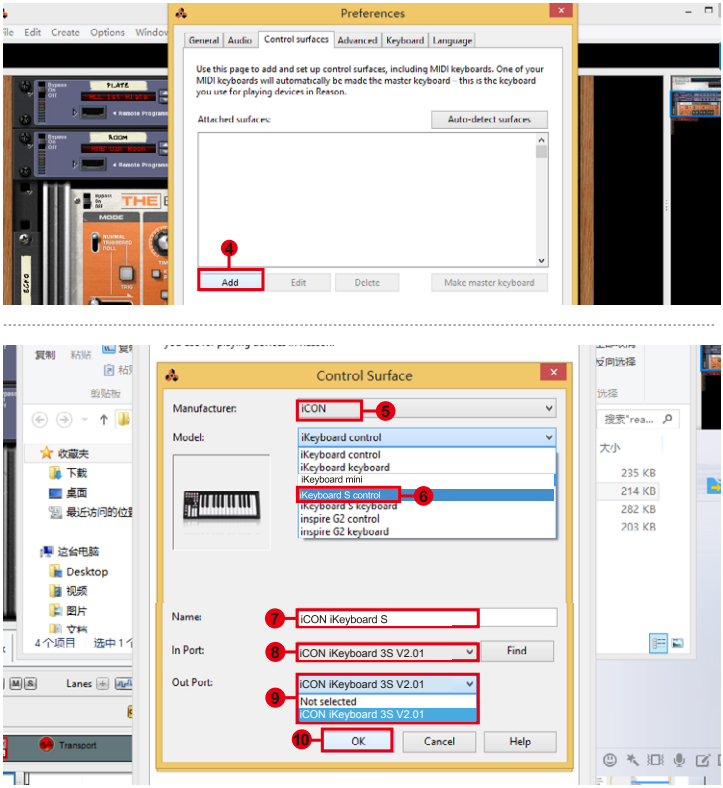




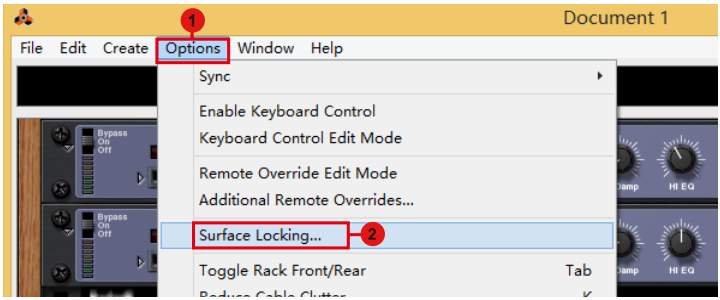
Reason (ICON·DRIVER)

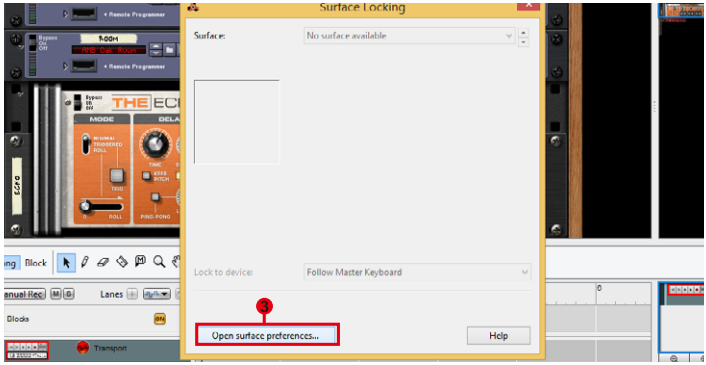


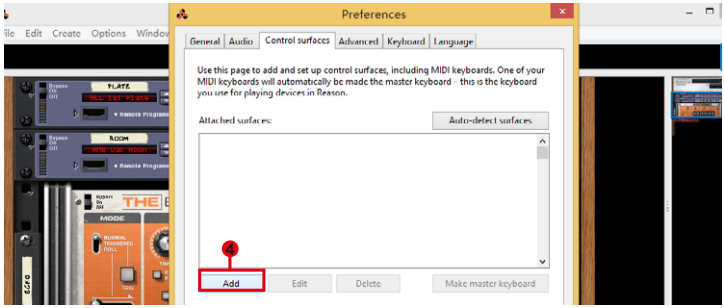


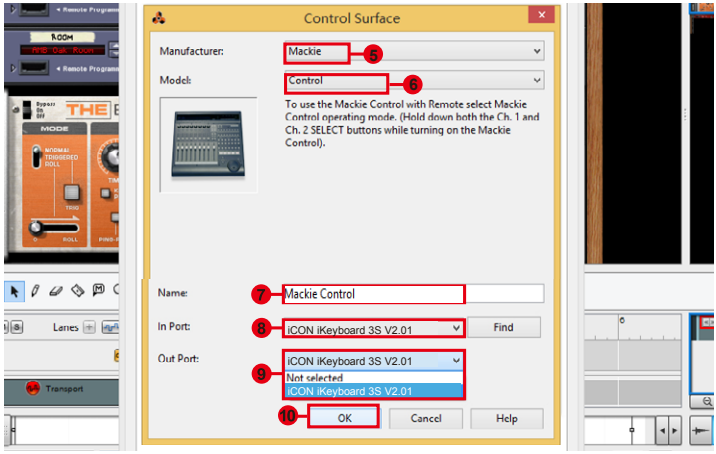


Reason (Mackie Control)

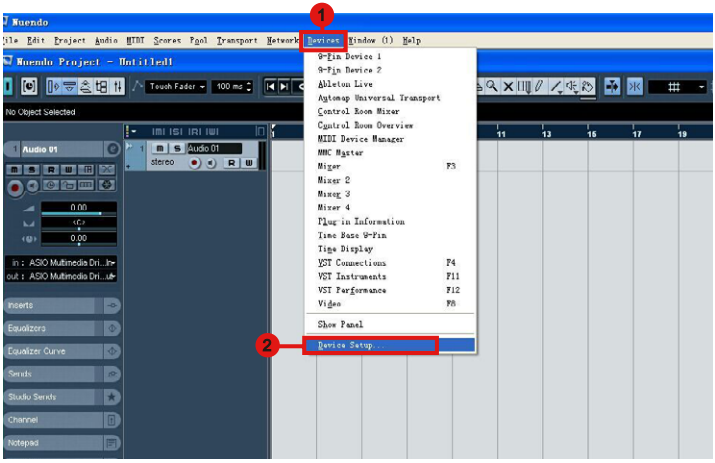


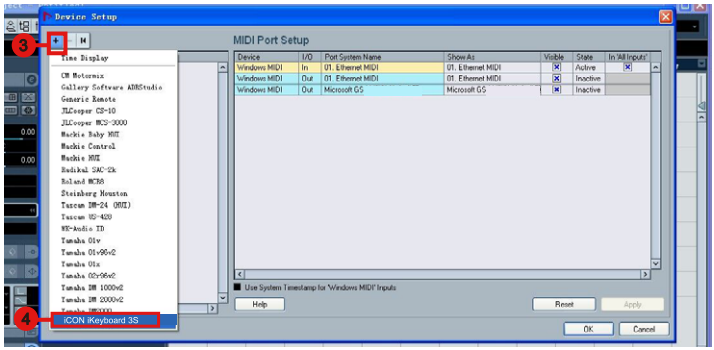

Surface Locking
Surface:
No surface available
Lock to device:
Follow Master Keyboard
3
Open surface preferences...
Help

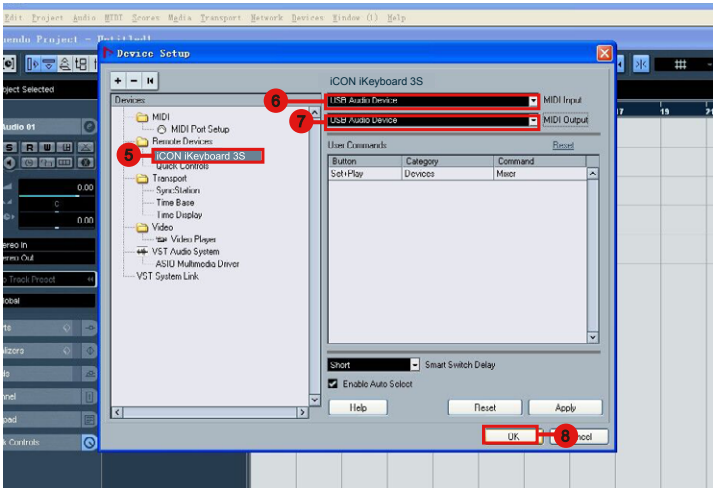

Preferences
General
Audio
Control surfaces
Advanced
Keyboard
Language
Use this page to add and set up control surfaces, including MIDI keyboards. One of your MIDI keyboards will automatically be made the master keyboard - this is the keyboard you use for playing devices in Reason.
Attached surfaces:
Auto-detect surfaces
4
Add
Edit
Delete
Make master keyboard


Control Surface
Manufacturer:
Mackie
5
Model:
Control
6
To use the Mackie Control with Remote select Mackie Control operating mode. (Hold down both the Ch. 1 and Ch. 2 SELECT buttons while turning on the Mackie Control).
Name:
7
Mackie Control
In Port:
8
iCON iKeyboard 3S V2.01
Find
Out Port:
iCON iKeyboard 3S V2.01
9
Not selected
iCON iKeyboard 3S V2.01
10
OK
Cancel
Help

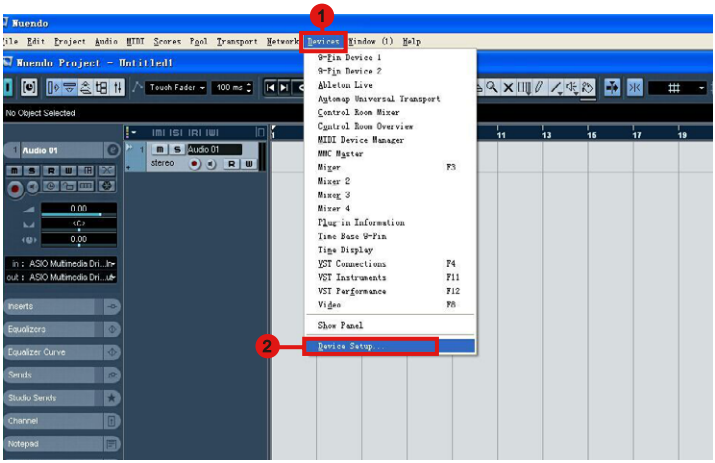
Nuendo (iCON·DRIVER)

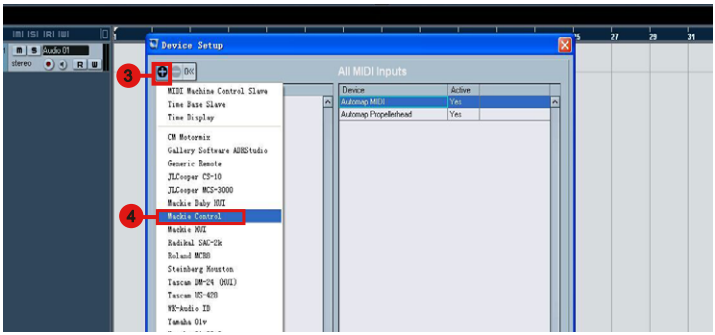


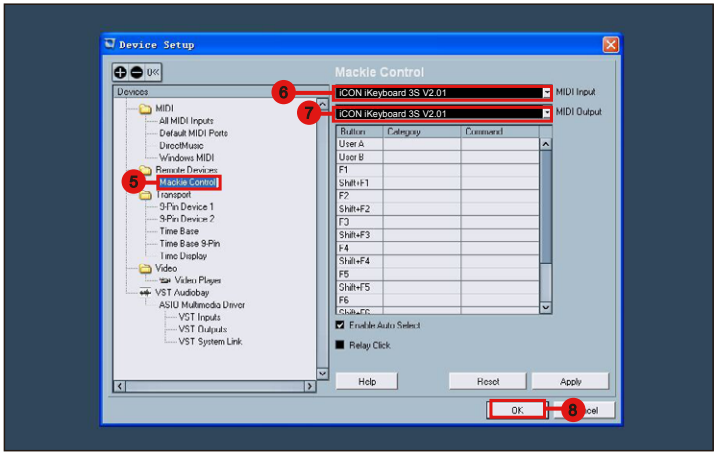




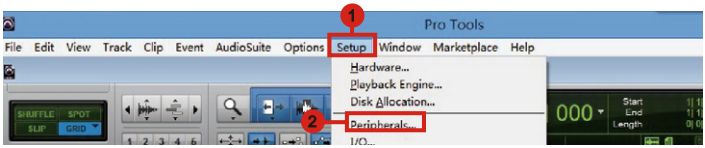
Nuendo (Mackie Control)

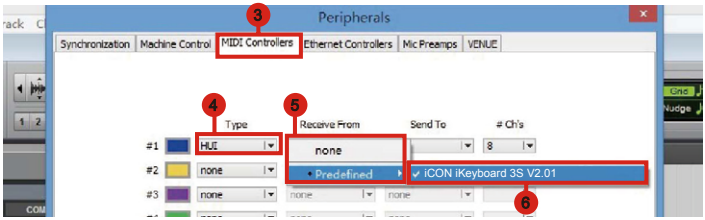


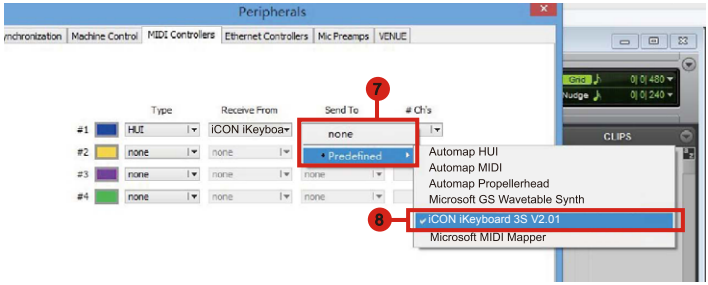


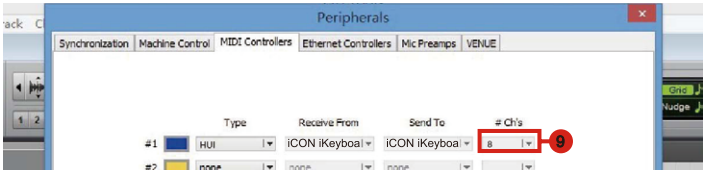


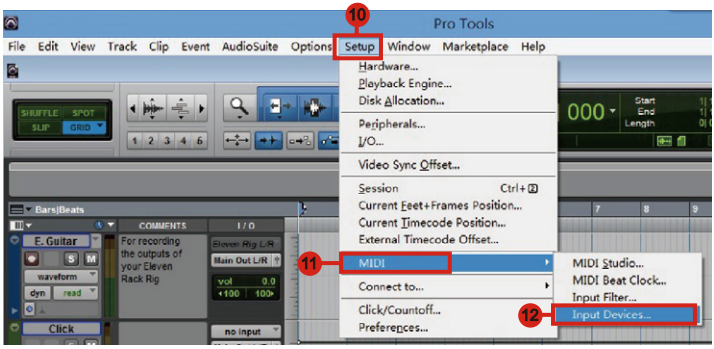
Pro Tools

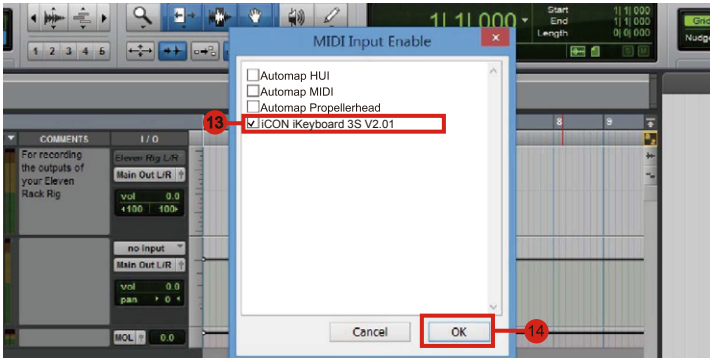

1
Pro Tools
File Edit View Track Clip Event AudioSuite Options Setup Window Marketplace Help
Hardware...
Playback Engine...
Disk Allocation...
2
Peripherals...
I/O...


3
Peripherals
Synchronization Machine Control MIDI Controllers Ethernet Controllers Mic Preamps VENUE
4
Type
5
Receive From
Send To
Ch's
#1 HUI
#2 none
#3 none
none
Predefined
iCON iKeyboard 3S V2.01
6

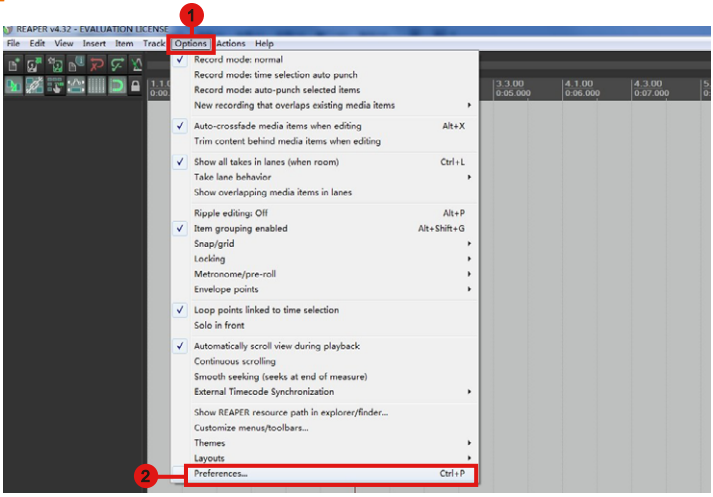

Peripherals
MIDI Controllers Ethernet Controllers Mic Preamps VENUE
Type
Receive From
Send To
Ch's
7
#1 HUI
#2 none
#3 none
#4 none
none
Predefined
Automap HUI
Automap MIDI
Automap Propellerhead
Microsoft GS Wavetable Synth
8
iCON iKeyboard 3S V2.01
Microsoft MIDI Mapper
CLIPS

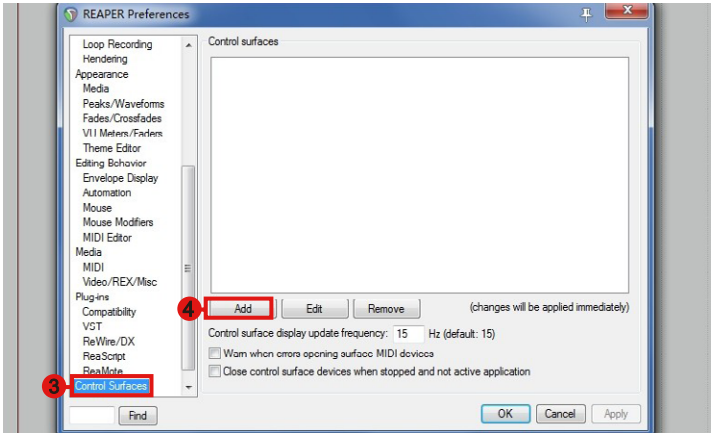

Peripherals
Synchronization Machine Control MIDI Controllers Ethernet Controllers Mic Preamps VENUE
Type
Receive From
Send To
Ch's
#1 HUI
iCON iKeyboa
iCON iKeyboa
8
9

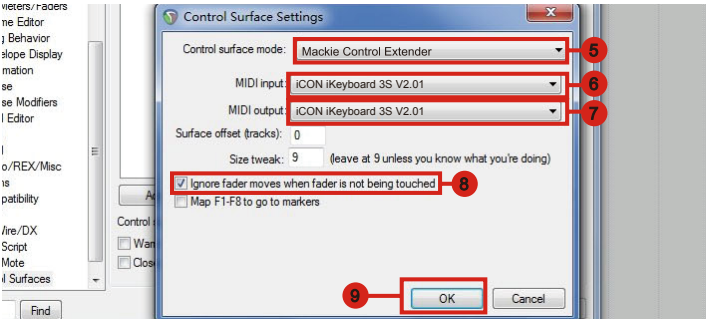

10
Pro Tools
File Edit View Track Clip Event AudioSuite Options Setup Window Marketplace Help
Hardware...
Playback Engine...
Disk Allocation...
Peripherals...
I/O...
Video Sync Offset...
Session Ctrl+
Current Feet+Frames Position...
Current Timecode Position...
External Timecode Offset...
11
MIDI
Connect to...
Click/Countoff...
Preferences...
MIDI Studio...
MIDI Beat Clock...
Input Filter...
12
Input Devices...
E. Guitar
Click
COMMENTS
I/O
no input


MIDI Input Enable
Automap HUI
Automap MIDI
Automap Propellerhead
iCON iKeyboard 3S V2.01
13
Cancel
OK
14

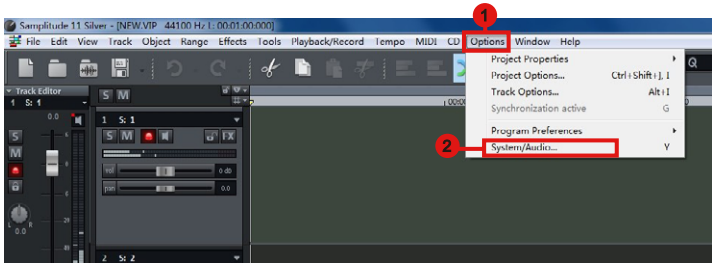
Reaper

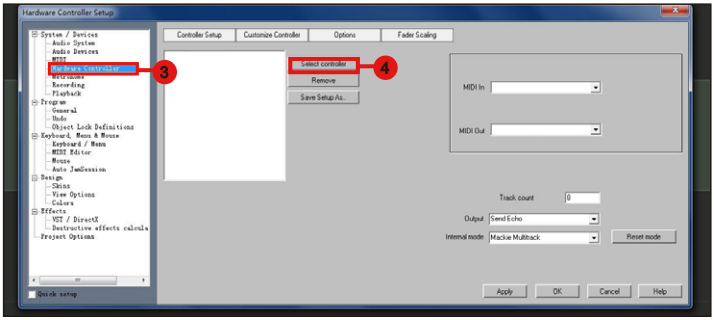

1
Options
Record mode: normal
Record mode: time selection auto punch
Record mode: auto-punch selected items
New recording that overlaps existing media items
Auto-crossfade media items when editing Alt+X
Trim content behind media items when editing
Show all takes in lanes (when room) Ctrl+L
Take lane behavior
Show overlapping media items in lanes
Ripple editing: Off Alt+P
Item grouping enabled Alt+Shift+G
Snap/grid
Locking
Metronome/pre-roll
Envelope points
Loop points linked to time selection
Solo in front
Automatically scroll view during playback
Continuous scrolling
Smooth seeking (seeks at end of measure)
External Timecode Synchronization
Show REAPER resource path in explorer/finder...
Customize menus/toolbars...
Themes
Layouts
2
Preferences... Ctrl+P

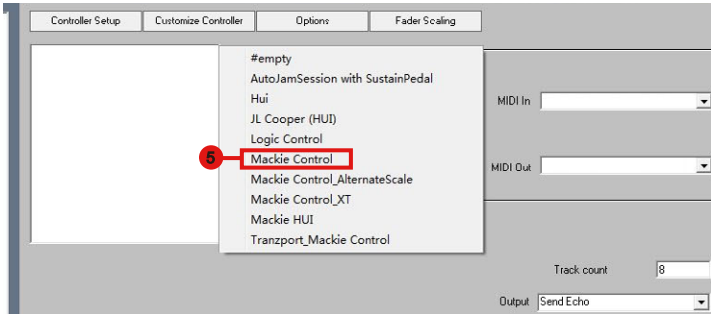

REAPER Preferences
Loop Recording
Rendering
Appearance
Media
Peaks/Waveforms
Fades/Crossfades
VU Meters/Faders
Theme Editor
Editing Behavior
Envelope Display
Automation
Mouse
Mouse Modifiers
MIDI Editor
Media
MIDI
Video/REX/Misc
Plug-ins
Compatibility
VST
ReWire/DX
ReaScript
ReaMote
3
Control Surfaces
Control surfaces
4
Add
Edit
Remove
(changes will be applied immediately)
Control surface display update frequency: 15 Hz (default: 15)
Warn when errors opening surface MIDI devices
Close control surface devices when stopped and not active application
Find
OK
Cancel
Apply

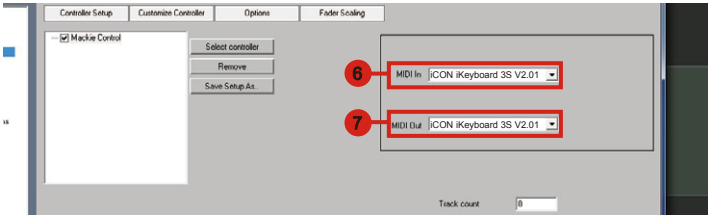

Control Surface Settings
Control surface mode:
Mackie Control Extender
MIDI input:
iCON iKeyboard 3S V2.01
MIDI output:
iCON iKeyboard 3S V2.01
Surface offset (tracks):
0
Size tweak:
9
(leave at 9 unless you know what you're doing)
Ignore fader moves when fader is not being touched
Map F1-F8 to go to markers
OK
Cancel
5
6
7
8
9
Find

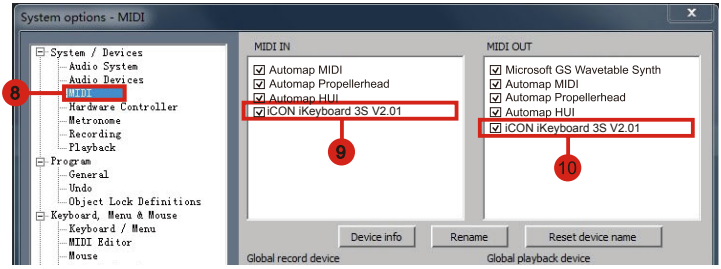
Samplitude


File Edit View Track Object Range Effects Tools Playback/Record Tempo MIDI CD Options Window Help
Project Properties
Project Options...
Track Options...
Synchronization active
Program Preferences
System/Audio...
1
2

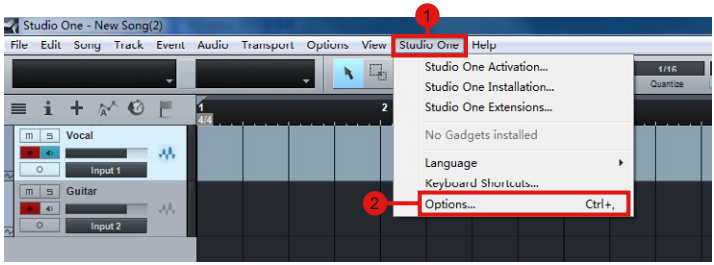

Hardware Controller Setup
Controller Setup
Customize Controller
Options
Fader Scaling
Select controller
Remove
Save Setup As...
MIDI In
MIDI Out
Track count
Output
Send Echo
Interval mode
Mackie Multiback
Reset mode
Apply
OK
Cancel
Help
3
4

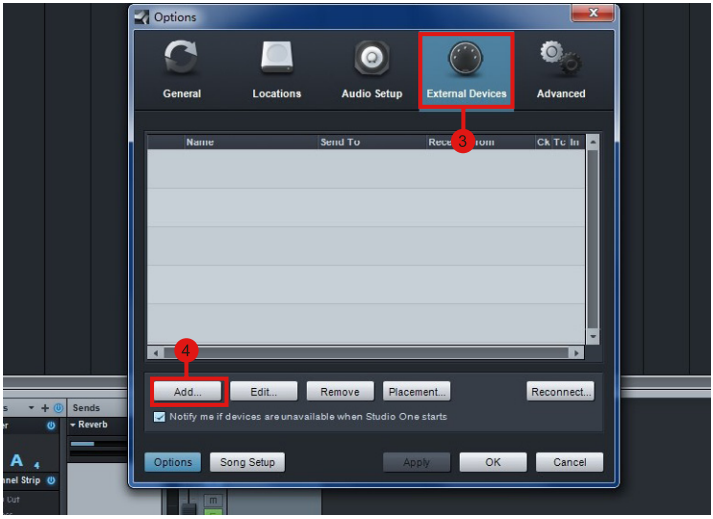

Controller Setup
Customize Controller
Options
Fader Scaling
#empty
AutoJamSession with SustainPedal
Hui
JL Cooper (HUI)
Logic Control
Mackie Control
Mackie Control_AlternateScale
Mackie Control_XT
Mackie HUI
Tranzport_Mackie Control
5
MIDI In
MIDI Out
Track count
8
Output
Send Echo

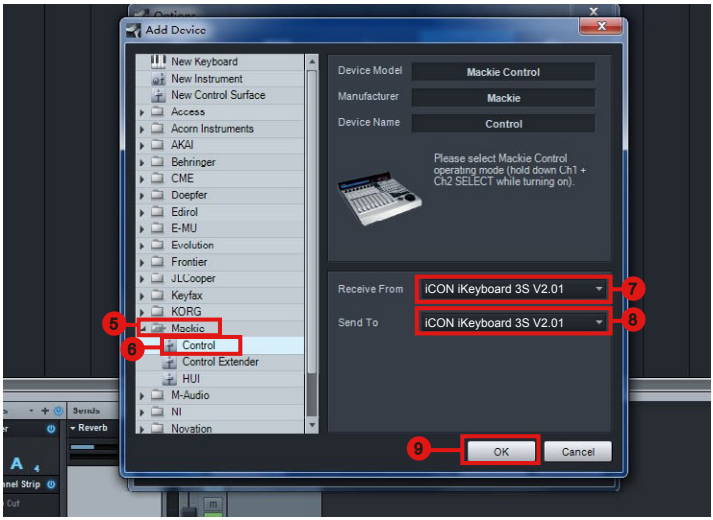

Controller Setup
Customize Controller
Options
Fader Scaling
Mackie Control
Select controller
Remove
Save Setup As...
6
MIDI In
iCON iKeyboard 3S V2.01
7
MIDI Out
iCON iKeyboard 3S V2.01
Track count


System options - MIDI
System / Devices
Audio System
Audio Devices
MIDI
Hardware Controller
Metronome
Recording
Playback
Program
General
Undo
Object Lock Definitions
Keyboard, Menu & Mouse
Keyboard / Menu
MIDI Editor
Mouse
8
MIDI IN
Automap MIDI
Automap Propellerhead
Automap HUI
iCON iKeyboard 3S V2.01
9
MIDI OUT
Microsoft GS Wavetable Synth
Automap MIDI
Automap Propellerhead
Automap HUI
iCON iKeyboard 3S V2.01
10
Device info
Rename
Reset device name
Global record device
Global playback device

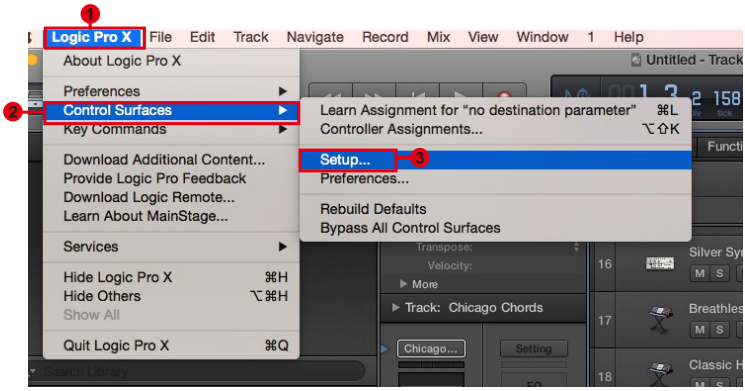
Studio One

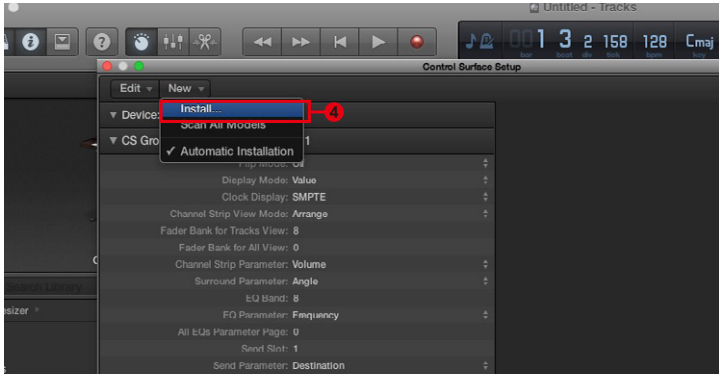

Studio One - New Song(2)
File
Edit
Song
Track
Event
Audio
Transport
Options
View
Studio One
Help
1
Studio One Activation...
Studio One Installation...
Studio One Extensions...
No Gadgets installed
Language
Keyboard Shortcuts...
2
Options...
Ctrl+,
Vocal
Input 1
Guitar
Input 2


Options
General
Locations
Audio Setup
External Devices
Advanced
3
Name
Send To
4
Add...
Edit...
Remove
Placement...
Reconnect...
Notify me if devices are unavailable when Studio One starts
Options
Song Setup
Apply
OK
Cancel
Sends
Reverb


Add Device
New Keyboard
New Instrument
New Control Surface
Access
Acorn Instruments
AKAI
Behringer
CME
Doepfer
Edirol
E-MU
Evolution
Frontier
JLCooper
Keyfax
KORG
Mackie
Control
Control Extender
HUI
M-Audio
NI
Novation
Device Model
Mackie Control
Manufacturer
Mackie
Device Name
Control
Please select Mackie Control operating mode (hold down Ch1 + Ch2 SELECT while turning on).
Receive From
iCON iKeyboard 3S V2.01
Send To
iCON iKeyboard 3S V2.01
OK
Cancel
5
6
7
8
9

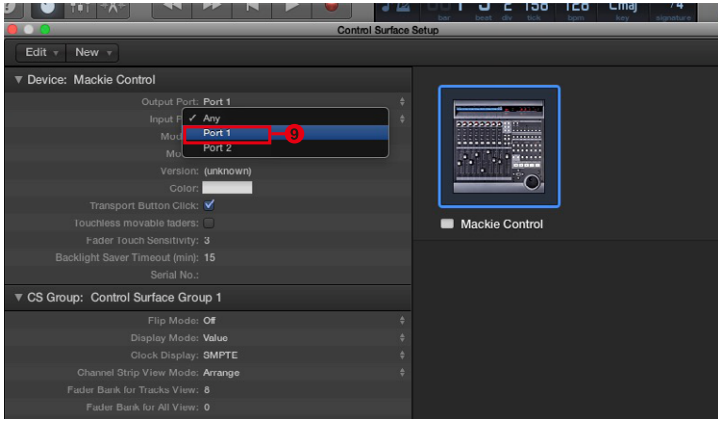
Logic Pro


1
Logic Pro X
File
Edit
Track
Navigate
Record
Mix
View
Window
1
Help
About Logic Pro X
Preferences
Control Surfaces
Key Commands
Download Additional Content...
Provide Logic Pro Feedback
Download Logic Remote...
Learn About MainStage...
Services
Hide Logic Pro X ⌘H
Hide Others ⌥⌘H
Show All
Quit Logic Pro X ⌘Q
Learn Assignment for "no destination parameter" ⌘L
Controller Assignments... ⌥⇧K
Setup...
Preferences...
Rebuild Defaults
Bypass All Control Surfaces
2
3
Untitled - Track
Transpose:
Velocity:
More
Track: Chicago Chords
Chicago...
Setting
Silver Sy
Breathles
Classic H

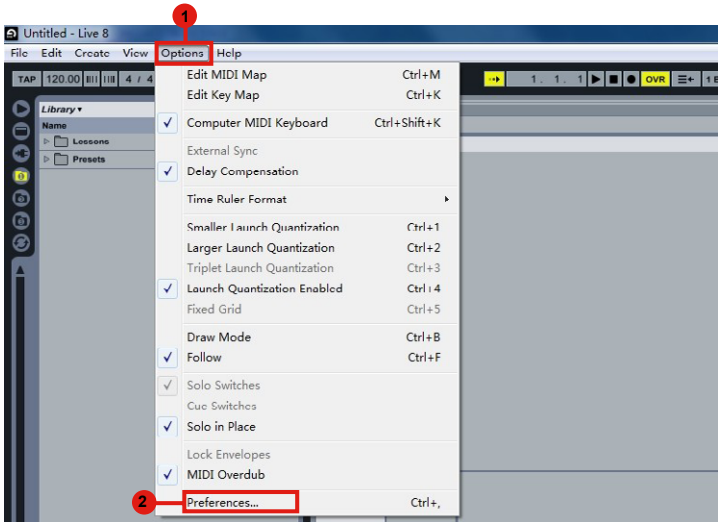

Untitled - Tracks
Control Surface Setup
Edit
New
Install...
Automatic Installation
4
Device
CS Gro
Display Mode: Value
Clock Display: SMPTE
Channel Strip View Mode: Arrange
Fader Bank for Tracks View: 8
Fader Bank for All View: 0
Channel Strip Parameter: Volume
Surround Parameter: Angle
EQ Band: 8
Send Slot: 1
Send Parameter: Destination

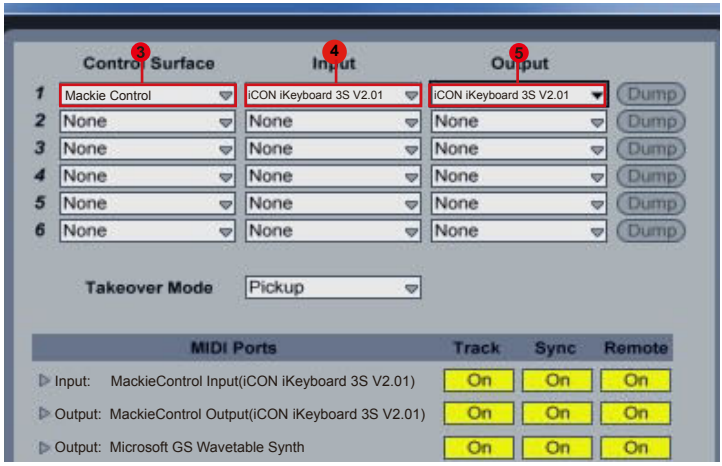

Display Mode: Value
Clock Display: SMPTE
Channel Strip View Mode: Arrange
Fader Bank for Tracks View: 8
Fader Bank for All View: 0
Channel Strip Parameter: Volume
Surround Parameter: Angle
EQ Band: 8
Install
5
Manufacturer
Model
Module
M-Audio
iControl
iControl
Mackie Designs
Baby HUI
HUI
Mackie Designs
HUI
HUI
Mackie Designs
HUI Channel Strips only
HUI
Mackie Designs
Logic Control
Logic Control
Mackie Designs
Logic Control XT
Logic Control
6
Mackie Designs
Mackie Control
Logic Control
Mackie Designs
Mackie Control C4
Logic Control
Mackie Designs
Mackie Control Extender
Logic Control
Radikal Technologies
SAC-2K
SAC-2K
Roland
SI-24
SI-24
Tascam
FE-8
FW-1884
Tascam
FW-1082
FW-1884
Tascam
FW-1884
FW-1884
Tascam
US-224
US-428
Add
Scan
7
RESONANCE
PULSE
PULSE RATE
ATTACK
DECAY


Control Surface Setup
New
vice: Mackie Control
All
Port 1
8
Port 2
Model: Mackie Control
Version: (unknown)
Color:
Transport Button Click:
Touchless movable faders:
Fader Touch Sensitivity: 3
Backlight Saver Timeout (min): 15
Serial No.:
Group: Control Surface Group 1
Flip Mode: Off
Display Mode: Value
Clock Display: SMPTE
Channel Strip View Mode: Arrange
Mackie Control


Control Surface Setup
Edit
New
Device: Mackie Control
Output Port: Port 1
Any
Port 1
9
Port 2
Version: (unknown)
Color:
Transport Button Click:
Touchless movable faders:
Fader Touch Sensitivity: 3
Backlight Saver Timeout (min): 15
Serial No.:
CS Group: Control Surface Group 1
Flip Mode: Off
Display Mode: Value
Clock Display: SMPTE
Channel Strip View Mode: Arrange
Fader Bank for Tracks View: 8
Fader Bank for All View: 0
Mackie Control

Ableton Live

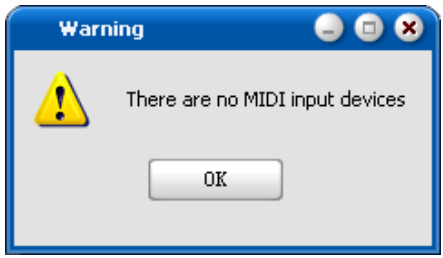




Assigning MIDI functions with iMap™

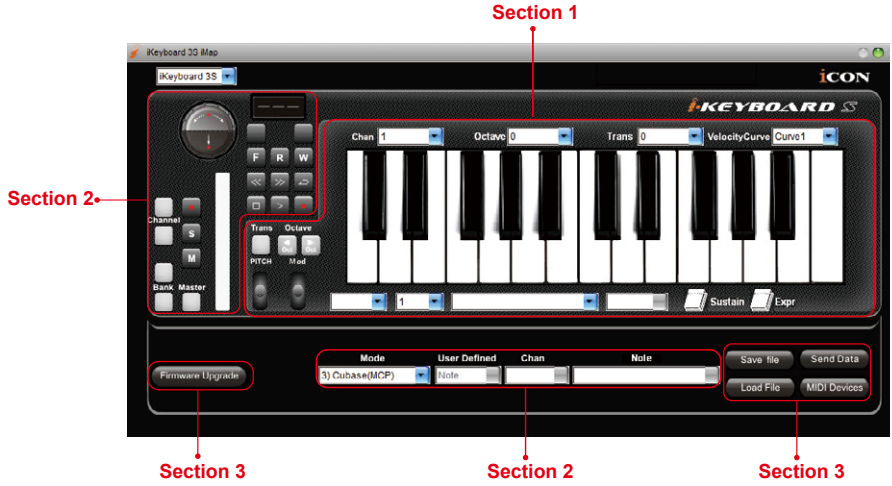
You can use iMap™ to easily assign the MIDI functions of your iKeyboard S.

Note: *If your iKeyboard S is not connected to your Mac/PC, the message "There are no MIDI input devices" will appear. Please connect iKeyboard S to your Mac/PC with the provided USB cable.*



iMap™ iKeyboard S software panel

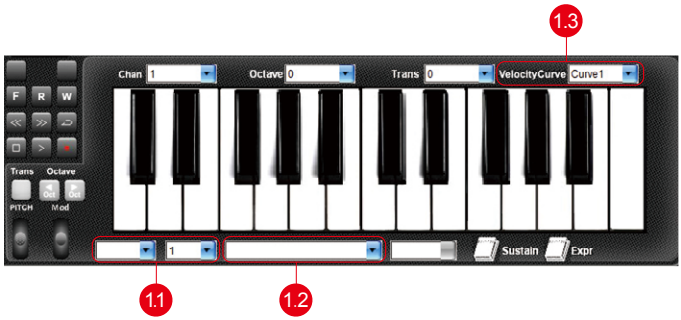
iKeyboard S's iMap is divided into three main sections as described below:



Section 1

1.0 Keyboard elements assignment

These elements include the key switches, velocity curve, modulation/pitch bend jog wheel, Sustain & Expression pedal, Transpose & Octave buttons. These elements are assigned by the top three drop down windows. To assign a control, select it by clicking it and assign a different midi message by the two drop down menus (MIDI Channel & CC).



1.1 MIDI Channel

Assign MIDI channel from 0-16.

1.2 CC valuel

Assign MIDI CC value from 0-127.

1.3 Velocity Curve

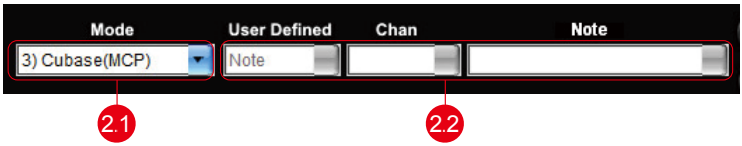
Select the available velocity curve of your keybed. For the difference velocity curve diagram, please refer to P.42.

Section 2

2.0 Control surface elements assignment

These elements include all the buttons, the knob and the touch pad. These elements are assigned by the lower four drop down menus and the “Toggle/Momentary” button.

Note: *iKeyboard S has built-in Mackie Control protocols & HUI for different DAW such as Cubase™, Samplitude™, Abelton Live™, Logic Pro™, Bitwig™, Reasons™, Reaper™, Studio One™ and ProTool™ By selecting the correct DAW and Mackie control (HUI) protocol, iKeyboard S has automatically mapped the major functions and work seamlessly with that DAW.*



2.1 Control Mode

Mackie Control:	Select “Mackie Control” for Mackie control protocol
HUI:	Select “HUI” for HUI control protocol
User Defined:	Set your own midi settings for all the controllers

*(**Tip:** Please refer to Appendix A for Mackie Control and HUI protocol functions.)*

*(**Note:** In “Mackie Control / HUI” mode, settings are fixed and not changeable.)*

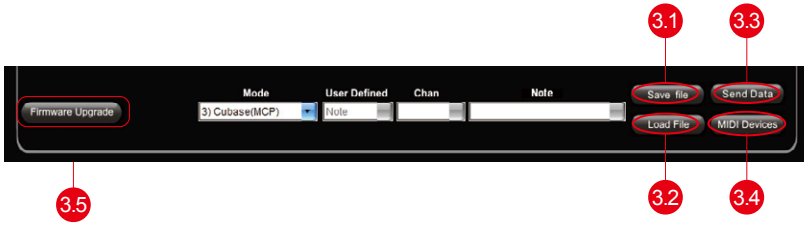
2.2 User defined mode (Advance user)

If you would like to assign your own midi mapping, select “User Defined” mode at the control mode drop down menu. To assign a control, select it by clicking it and assign a different midi message by the three drop down menus. The table below shows the different types of midi messages and their changeable parameters.

MIDI Message Type	Channel	Parameters
Note	0 to 16	-1(C) to 9(G)
CC	0 to 16	0 to 127
Program	0 to 16	0 to 127

Section 3

3.0 General setting to the keyboard



3.1 “Save file” button

Click this button to save your current settings for the iKeyboard S. The file is an “ikeyboard S” file.

3.2 “Load file” button

Click this button to load a previously saved “. ikeyboard S” setting file for your iKeyboard S.

3.3 “Send Data” button

Click this button to upload the iMap™ software settings to your iKeyboard S via USB connection.

*(**Note:**You must have connected your iKeyboard S to your Mac/PC, otherwise the settings upload will not be successful.)*

3.4 “MIDI Devices” button

Click this button, a MIDI device select window will appear as shown in diagram 23. Please select “ICON iKeyboard S” for the MIDI Out Devices.

Diagram 23

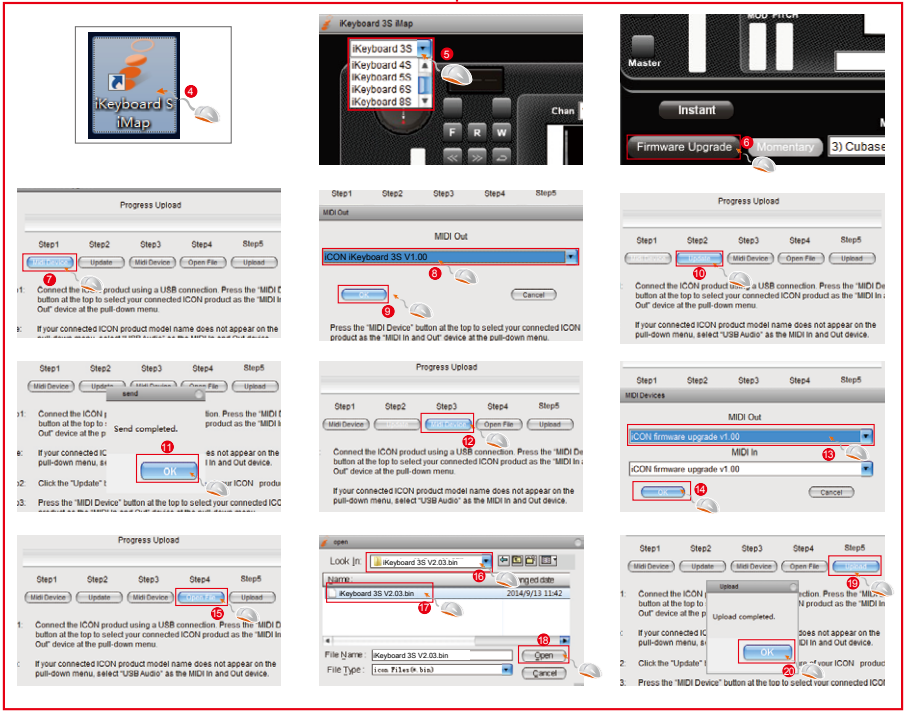
*(**Note:** Please make sure you have pressed this button every time you launched iMap, select your ICON product on the MIDI input-output Device pop-up menu to make sure the communication between iMap and your ICON product is created successfully.)*

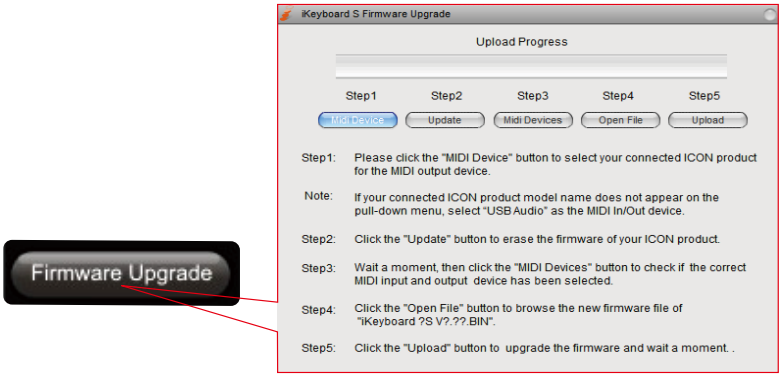
3.5 “Firmware Upgrade” button

Click this button to enter into the firmware upgrade window for iKeyboard S. Please refer to P.41 for the firmware upgrade procedure.

Firmware upgrade

iKeyboard S functional firmware upload procedure





Step 1: Connect the ICON product using a USB connection. Press the “MIDI Device” button at the top to select your connected ICON product as the “MIDI In and Out” device at the pull-down menu.

Note: *If your connected ICON product model name does not appear on the pull-down menu, select “USB Audio” as the MIDI In and Out device.*

Step 2: Click the “Update” button.

Step 3: Press the “MIDI Device” button at the top to select your connected ICON product as the “MIDI In and Out” device at the pull-down menu.

Step 4: Click the “Open File” button to browse the new firmware file.

Step 5: Click the “Download” button to upload the firmware.

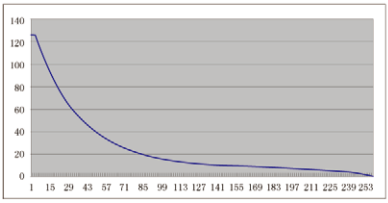
Warning: *The firmware upload process “MUST” be completed and not be interrupted during the file uploading, otherwise the firmware may not be rewritten again.*

Restore the factory default settings

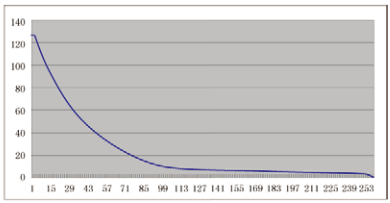
To restore your iKeyboard S settings to factory default, simply import the “Factory Default” setting file into your iKeyboard S with the original setting of the iMap software.

Velocity curve

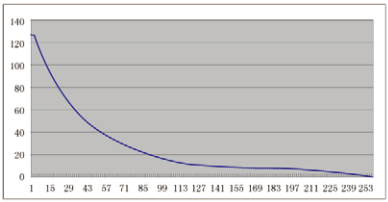
Curve 1



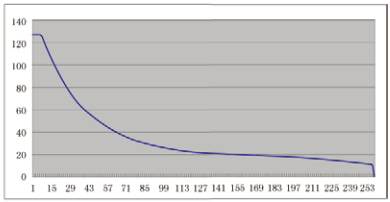
Curve 2



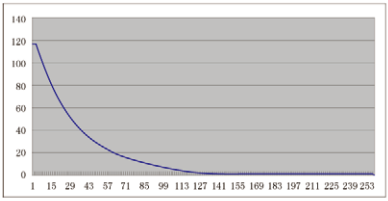
Curve 3



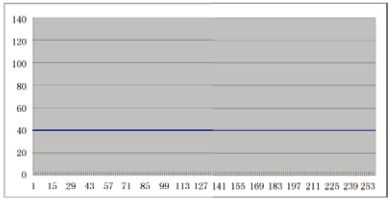
Curve 4



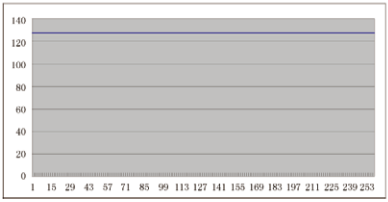
Curve 5



Curve 6



Curve 7



Appendix A

Mackie Control mode function table
(Nuendo/Cubase/Logic/Bitwig/Reaper/Samplitude/Reaper/Studio One/Live)

Controller	Function
Encoder	Adjust channel Pan parameter
Encoder with "Jog" button activated	Rotate: Scrolling the play-line forward & backward Enter: Add marker
TouchPad Fader	Adjust channel/Master volume
Button "Master"	Activate to use the touchpad fader as Master fader
Button "M"	Mute track
Button "S"	Solo track
Button "  " 1-8	Record track
Button "Channel <"	Shift one channel up
Button "Channel >"	Shift one channel down
Button "8 <<"	Shift eight channel up
Button "8 >>"	Shift eight channel down
Button "  "	Activate the stop function
Button "  "	Activate the play function
Button "  "	Activate the record function
Button "<<"	Activate the rewind function
Button ">>"	Activate the fast forward function
Button "  "	Activate the loop function
Button "Flip"	Swap the parameter settings of the faders and the rotary encoder knobs
Button "  "	Activate the read function of the DAW
Button "  "	Activate the write function of the DAW
Button "Program"	Activate to select different sound patches on your DAW

HUI mode function table
(ProTools)

Controller	Function
Encoder	Adjust channel Pan parameter
Encoder with "Jog" button activated	Rotate: Scrolling the play-line forward & backward Enter: Add marker
TouchPad Fader	Adjust channel/Master volume
Button "Master"	Activate to use the touchpad fader as Master fader
Button "M"	Mute track
Button "S"	Solo track
Button "  " 1-8	Record track
Button "Channel <"	Shift one channel up
Button "Channel >"	Shift one channel down
Button "8 <<"	Shift eight channel up
Button "8 >>"	Shift eight channel down
Button "  "	Activate the stop function
Button "  "	Activate the play function
Button "  "	Activate the record function
Button "<<"	Activate the rewind function
Button ">>"	Activate the fast forward function
Button "  "	Activate the loop function
Button "Flip"	Swap the parameter settings of the faders and the rotary encoder knobs
Button "  "	Activate the read function of the DAW
Button "  "	Activate the write function of the DAW
Button "Program"	Activate to select different sound patches on your DAW

Minimum System Requirements

Important: The iKeyboard S digital audio interface is supported by Mac OS (Intel-Mac), Windows 7 (32-bit/64-bit), Windows 8 (32-bit/64-bit) and Windows 10 (32-bit/64-bit). The iKeyboard S digital audio interface is not supported by Windows 98, Windows Me, Windows XP or Windows Vista. On the Mac, the iKeyboard S digital audio interface is supported by Mac OSX version 10.5.5 or later (must be Intel-Mac). Earlier versions of Mac operating systems are not supported.

The following minimal configuration is recommended:

Processor:	Core Duo 2GHz or better
Chipset:	Intel, VIA*
USB 2.0 host:	Integrated high speed
USB 3.0 host:	In high speed mode

Specifications

Connector:

USB	USB connector (standard type)
Sustain & Expression	2x1/4” TS connectors
MIDI I/O	5-pin Din connector
Line in (L/R)	2x1/4” TS connectors
Line Out (L/R)	2x1/4” TS connectors
Mic in	XLR balanced connector
Headphone out	1/4” stereo connector

Power supply	7V/1A DC
Current consumption	500mA or less

Weight:

iKeyboard 3S	2.45kg	5.4(lb)
iKeyboard 4S	3.25kg	7.17(lb)
iKeyboard 5S	4.05kg	8.93(lb)
iKeyboard 6S	4.85kg	10.7(lb)
iKeyboard 8S	6.66kg	14.7(lb)

Dimensions:

iKeyboard 3S	530(L)x189(W)x77(H)mm
	21"(L)x7.44"(W)x3"(H)
iKeyboard 4S	695(L)x189(W)x77(H)mm
	27.4"(L)x7.44"(W)x3"(H)
iKeyboard 5S	860(L)x189(W)x77(H)mm
	33.9"(L)x7.44"(W)x3"(H)
iKeyboard 6S	1025(L)x189(W)x77(H)mm
	40.4"(L)x7.44"(W)x3"(H)
iKeyboard 8S	1403(L)x189(W)x77(H)mm
	55.24"(L)x7.44"(W)x3"(H)

Mic Input (at Minimum Gain):

Frequency Response	22Hz to 22kHz (+/-0.1dB
Dynamic Range	93dB, A-weighted
Signal-to-Noise Ratio	-93dB, A-weighted
THD+N	<0.0061% (-90dB)
Crosstalk	-87dB @ 1kHz
Input Impedance	Mic in: 1.8K Ohms, typical
Adjustable Gain	+34dB
Total Gain Range	+50dB

Line Inputs 1/2 (Unbanced):

Frequency Response	22Hz to 22kHz (+/-0.1dB
Dynamic Range	100dB, A-weighted
Signal-to-Noise Ratio	-100dB, A-weighted
THD+N	<0.0061% (-90dB)
Crosstalk	-100dB @ 1kHz
Nominal Input Level	Unbalanced: +4dBV, typical;
Maximum Input level	Unbalanced: +11dBV, typical;
Input Impedance	10K Ohms, typical

Line Outputs 1/2 (Unbanced):

Frequency Response	22Hz to 22kHz (+/-0.1dB
Dynamic Range	102dB, A-weighted
Signal-to-Noise Ratio	-102dB, A-weighted
THD+N	<0.003% (-90 dB)
Crosstalk	-100dB @ 1kHz
Nominal Output Level	Unbalanced: +4dBV, typical;
Maximum Output Level	+11dBV, typical;
Output Impedance:	150 Ohm
Load Impedance	600 Ohm minimum

Headphone Output: (at Maximum Volume; Into 100 Ohm load):

Frequency Response	22Hz to 22kHz (+/-0.1dB
Power into Ohms	90 mW into 100 Ohms
THD+N	<0.06% (-66dB)
Signal-to-Noise Ratio	-90dB, A-weighted
Max Output Level into 100 Ohms	+2.0dBV, typical
Output Impedance	75 Ohm
Load Impedance	32 to 600 Ohms

Services

If your iKeyboard S needs servicing, follow these instructions.

Check our online help centre at **http://support.iconproaudio.com/hc/en-us**, for information, knowledge, and downloads such as
1. FAQ
2. Download
3. Learn More
4. Forum

Very often you will find solutions on these pages. If you don't find a solution, create a support ticket at our online ACS (Auto Customer Support) at the below link, and our technical support team will assist you as soon as we can.

To send defective products for service:

1. Ensure the problem is not related to operation error or external system devices.
2. Keep this owner's manual. We don't need it to repair the unit.
3. Pack the unit in its original packaging including end card and box. This is very important. If you have lost the packaging, please make sure you have packed the unit properly. ICON is not responsible for any damage that occurs due to non-factory packing.
4. Ship to the ICON tech support center or the local return authorization. See our service centres and distributor service points at the link below:

   If you are located in Honk Kong
   Send the product to:
   ASIA OFFICE:
   Unit F, 15/F., Fu Cheung Centre,
   No. 5-7 Wong Chuk Yueng Street, Fotan,
   Sha Tin, N.T., Hong Kong.

   If you are located in Europe
   Send the product to:
   Servicecenter-Siedler
   Am alten Bach 18
   41470 Neuss
   Germany
   Tel: +49 2137 7864212
   www.servicecenter-siedler.de
   www.facebook.com/ServiceCenterSiedler

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www.youtube.com/iconproaudi o