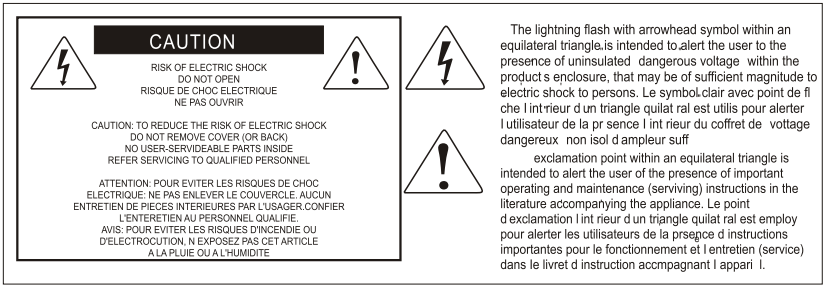
QCon Pro X

MIDI/Audio control surface with motorized faders for production



User manual

DER GRÜNE PUNKT CE FC N1630



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

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Introduction

Thank you for purchasing the ICON ProAudio Qcon Pro X digital audio Interface. 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 Qcon Pro X digital audio interface, as well as a guided tour through its front and rear panels, step-by-step instructions for their setup and use, and full specifications.

Please register the product on our website at the below link **www. iconproaudio. com/registration**:

Please follow the step by step procedures starting from input the device's serial number to your personal information etc. By registering your product online, you will entitle to several different services and after-sales supporting at our ACS help center by visting our website at **www.iconproaudio.com**. Also, all the registered products under your account will be listed on your personal product page where you could get update information such as firmware/driver upgrade, software bundle and user manual download etc for your device.

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 Qcon Pro X digital audio interface will operate without any trouble for many years. We recommend that you record your serial number in the space provided below for future reference.

What's in the package?

- Qcon Pro X USB-MIDI Controller x 1pc
- Quick Start Guide x 1
- USB2.0 Cable x 1
- AC adaptor x 1pc

Register your ICON ProAudio product to your personal account

1. Check serial number of your device

Please go to **http:// iconproaudio.com/registration** or scan the QR code below.

Input your device's serial number and the other information on the screen. Click "Submit".

A message will pop up showing your device information such as model name and its serial number - Click "Register this device to my account" or if you see any other message, please contact our after-sales service team

2. Log in to your personal account page for existing user or sign up for new user

Existing user: Please log into your personal user page by inputing your user name and password.

New user: Please click "Sign Up" and fill in all the information.

3. Download all useful materials

All your registered devices under your account will show on the page. Each product will be listed along with all its available files such as drivers, firmware, user manual in different languages and bundled software etc. for download. Please make sure you have download the necessary files such as driver before you begin device installation.

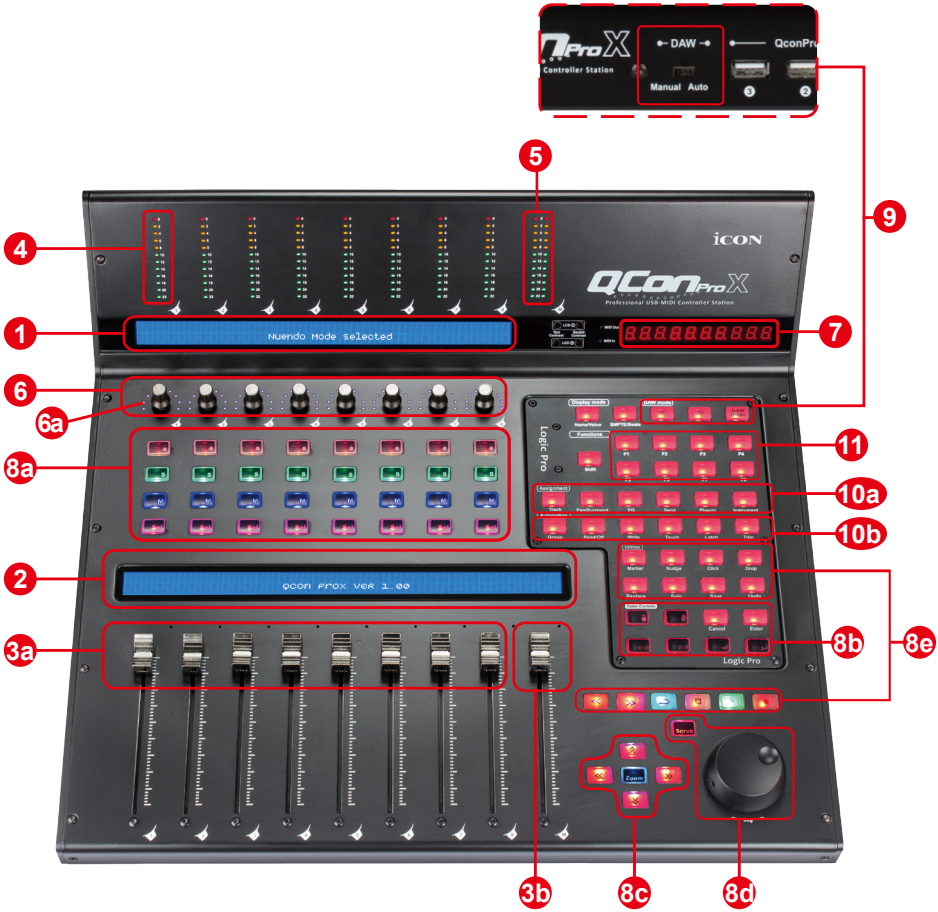
Features



- 8 touch-sensitive motorized channel faders with 10-bit resolution
- 1 touch-sensitive motorized fader for master channel with 10-bit resolution
- 12-segment LED level metering bridge equipped for channel (mono) and master channel (stereo) level metering (Angled and located at the top for easy reading)
- 8 x dual function encoder knobs (Enter & rotate)
- The multi-colour surround LED display will change colour according to the controlling parameter for easy control (Cubase only)
- 11-segment LED surrounding the encoders to indicate the rotating position.
- Large dual backlit LCD displays show channel name (lower LCD) and different control parameters (upper LCD) for each channel
- 10-segment LED display showing time location of your project in either SMPTE or BBT format.
- Jog wheel shuttle for fast search and control
- Illuminated buttons for each channel including Rec-enable, Solo, Mute, Select and Monitor
- 6 illuminated transport buttons including Play, Stop, Rec, Rewind, Fast forward and Loop
- Illuminated zoom key with 4 direction keys
- 9 illuminated assignable MIDI function buttons (Depended on DAW)
- Expandable to 32-channels control surface with 3units of Qcon Pro XS
- 3 x USB expansion ports are included
- Different expansion control units (modules) such as joystick, extra buttons, or knobs will be available (optional)
- User A & User B 1/4” TRS connectors for connecting with pedals
- Class-compliant with Windows XP, Vista (32-bit & 64-bit), Windows 7 (32-bit & 64-bit), Windows 8 (32-bit & 64-bit), Windows 10 (32-bit & 64-bit) and Mac OS X (IntelMac)

- USB 2.0 high speed connectivity
- Mackie control build-in for Cubase, Nuendo, Samplitude, Logic Pro, Reaper, Studio One, Bitwig, Reason and Ableton Live.
- Mackie HUI protocol build-in for Pro Tools
- Hardware switch for DAW auto-detect mode or DAW manual-select mode
- Optional DAW aluminium panels are available including Cubase/Nuendo, Samplitude, Logic Pro, Reaper, Studio One, Bitwig, Reason, Ableton Live, and Pro Tools to trigger corresponding DAW settings in DAW auto-detect mode
- Different DAW PVC overlay are included - Cubase/Nuendo, Samplitude, Logic Pro, Reaper, Studio One, Bitwig, Reason, Ableton Live, and Pro Tools
- ICON “Quick-Setup” driver is available for Cubase, Nuendo, Reasons and Bitwig for instant plug & play
- iMap - Self midi mapping software is provided for user-defined mode (MIDI Learn)
- Firmware upgrade available simply via USB connection and iMap software.
- Superior build quality and robust metal casing with Kensington lock port
- 12V/2.5A power adapter included

Top Panel Layout



Note: Function operates slightly difference between DAWs. Please refer to your DAW manual for each function and overlap the provided labeling template according to your current using DAW. The following description is based on the functions that operate in Apple Logic Pro.

1. Upper LCD Display

The two-line backlit LCD display shows the parameter values as you adjust them and also provides feedback about channel selections, operating modes, and more.

2. Lower LCD Display

The two-line backlit LCD display shows the channel name.

3a. Channel faders

The eight 100mm motorized faders are generally used for controlling the track volume of your DAW. Depending on your DAW, you may use the “Flip” button to

switch the function of these faders to change other settings. They are all touch sensitive which allows you to override automation the moment you touch a fader. Also, they are motorized; they will automatically move to reflect the current level of the selected channels in your DAW application. Any automation recorded in a project will be reflected by the fader positions. Any parameter adjustments made with the fader will be displayed directly above on the LCD display (upper LCD).

3. Master fader

3b. This 100mm motorized fader operates the same as the other 8 faders. It controls your DAW software's master channel fader. Any parameter adjustments made with this fader will be displayed directly above on the LCD display (upper LCD).

Note: Except Pro Tools – Pro Tools software is designed in such a way that the fader next to your last channel fader always acts as the master channel fader.

4. Channel level metering (mono)

The 12-led showing the associated channel level.

5. Master channel metering (stereo)

The 12 x 2-LCD showing the master channel level.

6. Dual Function Encoders with Multi-Colour Surround LED

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.

6a. 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. On Cubase, the colour of the surround LED will change according to the controlling parameter.

7. Time display

This display shows the time location of your project in either SMPTE or BBT format.

8. Control buttons

8a) Recording channel control buttons section

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

SOLO buttons - 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 buttons - Activate and deactivate the mute state of the associated channel. The switch will light blue when the channel is muted.

SEL buttons - The SEL buttons activate the associated channels in the DAW software in order to perform a specific operation (for example, when adjusting EQ with the ASSIGNABLE ENCODERS, the SEL switch will be used to choose the channel you want to adjust). When a channel is selected, the associated SEL switch's red LED will light up.

8b) Motorized fader control buttons section

LOCK button -	Activate to lock all motorized faders.
FLIP button -	Press the FLIP button to swap the parameter settings of the motorized faders and the rotary encoder knobs.
UP button -	Shift “one” channel up for all faders (except the master channel).
DOWN button -	Shift “one” channel down for all faders (except the master channel).
BANK UP button -	Shift “eight” channels up for all faders (except the master channel).
BANK DOWN button -	Shift “eight” channels down for all faders (except the master channel).
Cancel button -	Activate DAW cancel function.
Enter button -	Activate DAW enter function.

8c) Zoom control buttons section

ZOOM button - The ZOOM button is typically used in conjunction with the ARROW buttons described below to zoom in and out within windows in the DAW application.

UP button - The UP button is used to navigate (up movement) through the Graphical User Interface (GUI) of the DAW application. Or zoom in vertically when used in conjunction with Zoom function.

DOWN button - The DOWN button is used to navigate (down movement) through the Graphical User Interface (GUI) of the DAW application. Or zoom out vertically when used in conjunction with Zoom function.

LEFT button - The LEFT button is used to navigate (left movement) through the Graphical User Interface (GUI) of the DAW application. Or zoom in horizontally when used in conjunction with Zoom function.

RIGHT button - The RIGHT button is used to navigate (right movement) through the Graphical User Interface (GUI) of the DAW application. Or zoom out horizontally when used in conjunction with Zoom function.

8d) Jog wheel section

Jog wheel - The jog wheel is used for various purposes specific to the DAW application, including shuttle and scrubbing functions.

Scrub button - The SCRUB button is typically used in conjunction with the jog wheel to scrub selected audio tracks for editing and auditioning purposes.

8e) 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.

Marker button - Toggle small Marker mode.

Nudge - Toggle small Nudge mode.

Click - Toggle playback or record metronome click.

Drop - Toggle Drop.

Replace - Toggle Replace.

Solo - Toggle track solo (of selected track).

Save - Activate DAW save function.

Undo - Activate DAW undo function.

9. DAW Selector section

There is an “auto-detect/manual select” switch located on the back of QconPro X.

Switch to Auto (Auto-Detect mode)
QconPro X will detect which DAW aluminium panel is installed automatically and trigger the settings for that DAW. For example, if the Logic Pro™ aluminium panel is installed on QconPro X, it will automatically load the Logic Pro settings.
(***Tip:*** Optional DAW panels are available for different DAW’s including: Nuendo/Cubase, Samplitude™, Ableton Live™, Logic Pro™, Reaper™, Bitwig™, Studio One™, Reason™ and Pro Tools™.)

Switch to Manual (Manual-Select mode)
By selecting the correct DAW mode, QconPro X will automatically trigger the selected DAW settings and works seamlessly with that DAW.

<< / >> buttons - These arrow buttons are used to scroll through the DAW list. The name of the DAW will display on the LCD.

DAW button - Press to enter the DAW selection.

To change your Qcon Pro X DAW mode, turn off and on the power switch to enter the DAW selection mode. Select your desired DAW from the list with the “<<” / “>>” buttons.

*(**Tip:** DAW button could not be activated if a DAW software is running.)*

*(**Tip:** Qcon Pro X will memorise your last selected DAW mode and re-enter the same mode a few seconds after it has been switched on. (i.e. DAW mode selection is not needed if the last mode is being used.)*

*(**Note:** If “Auto mode” is switched on, <</>> & DAW buttons will be ineffective.)*

*(**Note:** We will update Qcon ProX firmware from time to time to support additional DAW apart from the current existing list. Please check our official website to download and upgrade your Qcon ProX firmware).*

10. Sub-control buttons

This section on control buttons varies depending on which DAW is enabled. Please refer to the text on the PVC overlay or the installed DAW aluminium panel. The explanation below is based on Logic Pro.

10a) Assignment section

TRACK button - Activate the track parameters of the software.

PAN/EQ/Send/Plug-in/Instrument buttons - These buttons are used to activate the corresponding effect function of the DAW. They are typically used in conjunction with the rotary encoder knobs. Press the button, its light will turn on, and then rotate the rotary encoder knob to adjust the value, which will display on the LCD directly above.

10b) Automation section

GROUP - Press to enter “Group” edit mode.

READ/Off 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.

TOUCH button - Press to set selected track’s automation to Touch.

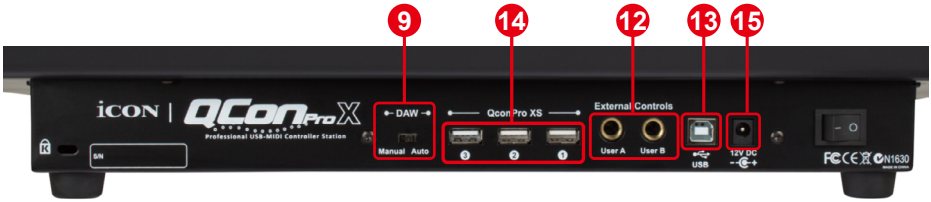
LATCH - Press to set selected track’s automation to Latch.

TRIM - Currently unassigned.

11. User-defined control buttons

This section of control buttons is user-defined in Mackie control mode (HUI mode). You may set their parameters according to your personal needs. PVC labeling mask is included for noting the set parameters.

Rear Panel Layout



12. User A / User B 1/4” TRS connectors

These 1/4” TRS connectors are able to connect to foot pedals to activate your selected functions. To set their parameters, select USER A and USER B parameters at Mackie control mode.

13. USB port

Connect your Qcon Pro X to your Mac/PC via this USB port.

14. 3 x Extension ports

Connect your extension unit such as QconProXS to these ports.

9. Auto/Manual switch

Switch to select trigger DAW mode automatically or manually. For detail, please refer to P.13.

15. 12V/2.5A power adaptor

Connect the provided power adaptor here.
*(**Note:** Qcon ProX is not able to work without the provided power adaptor connected. The USB bus power is not able to provide sufficient power supply for Qcon ProX.)*

Getting Started
Connecting Your QconPro X Controller

1. Connect the QconPro X to your Mac/PC via the USB port

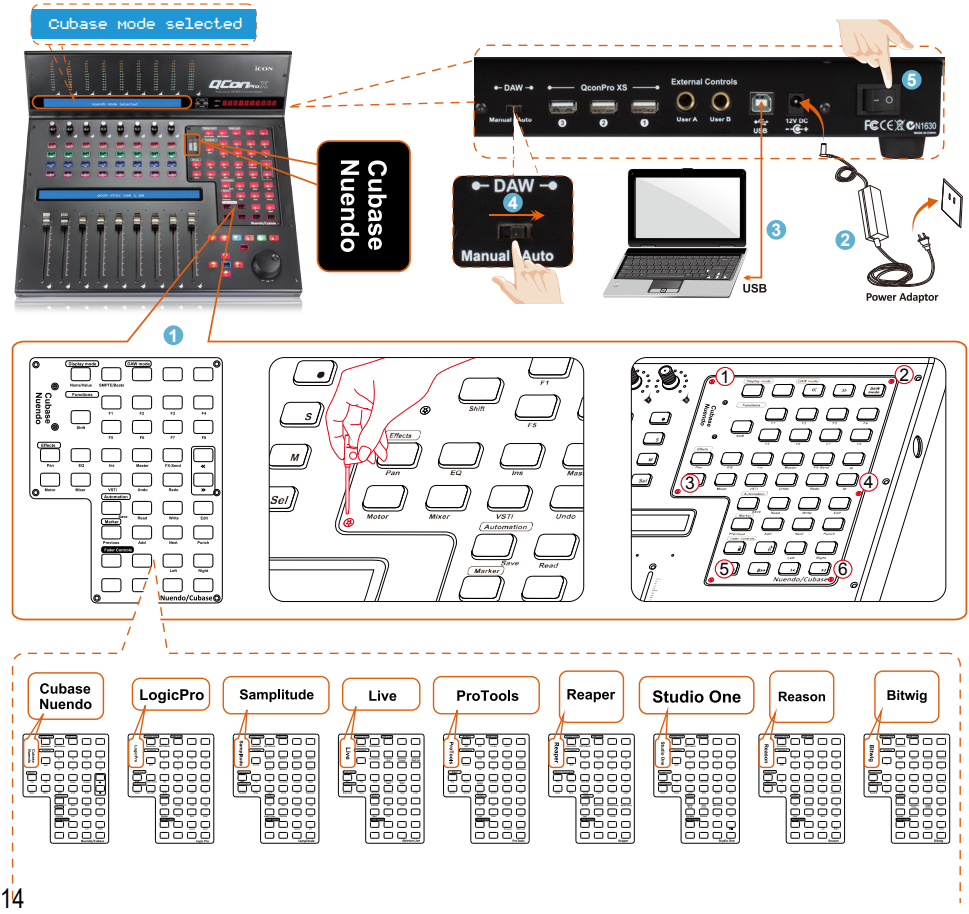
Choose a USB port on your Mac/PC and insert the wide (flat) end of the USB cable. Connect the cable's other end to the QconPro X. Your Mac/PC should automatically "detect" the new hardware and notify you that it is ready to use.

2. Select the DAW at QconPro X.

To select DAW mode, you may use automatic or manual select mode. There is an "Auto/Manual" switch located on the back of the QconPro X. Switch to "Auto" for automatic mode and "Manual" if you want to select DAW manually according to the following steps:

2.1 For Auto mode

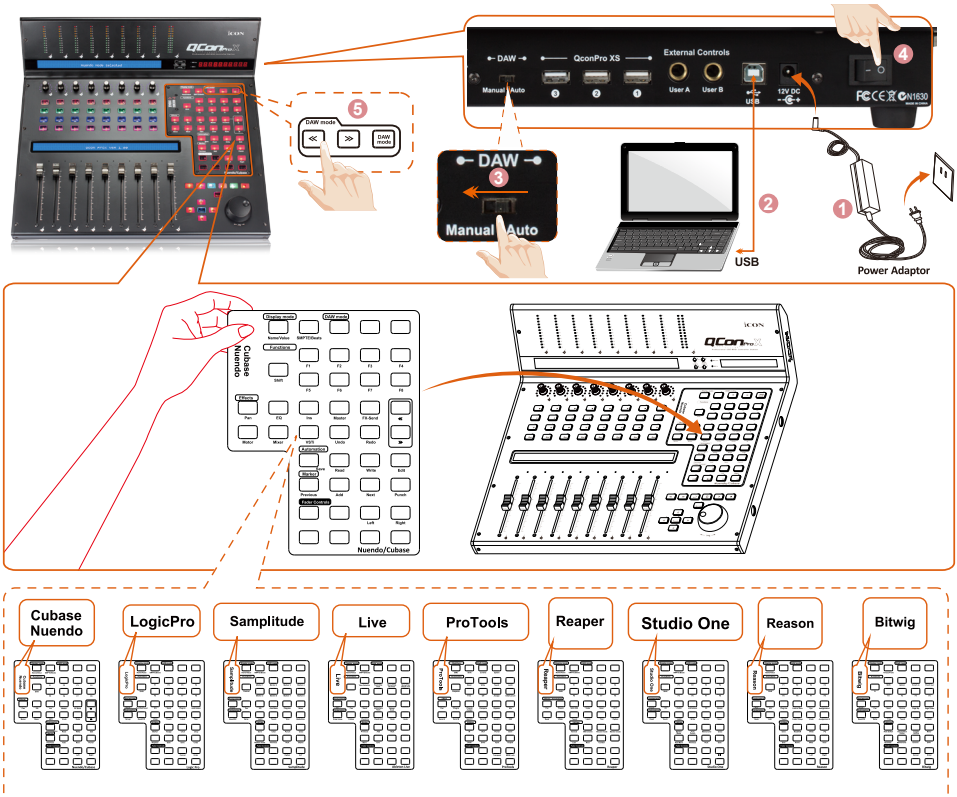
If you have switched QconPro X to "Auto" mode. Once you turn on the power switch, QconPro X will trigger the DAW setting according to your installed DAW aluminium panel. You do not need to select anything.



2.2 For Manual mode

If you have switched QconPro X to “Manual” mode. Once you turn on the power switch, the LCD will display a message asking you to select DAW mode. Press <</>> to scroll through the DAW list and press “DAW” to confirm the selection.

Tip: *QconPro X will memorise your last selected DAW mode and re-enter the same mode a few seconds after it has been switched on. (i.e. DAW mode selection is not needed if the last mode is being used.)*



3. Setup your DAW

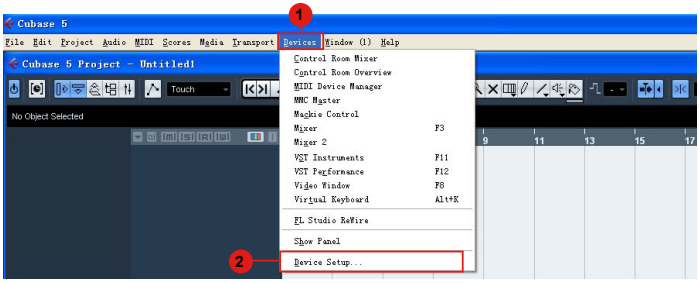
The QconPro X has built-in Mackie Control and HUI protocol, which will save you considerable trouble in setting up the device at your DAW. Simply add the “Mackie Control” or “HUI” device under the “MIDI Controller” on your software. After the Mackie Control or HUI device has been added, select QconPro X controller as your MIDI input and output device in your DAW.

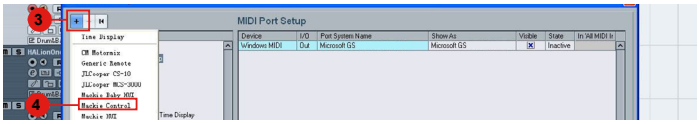
For the software below, please use Mackie Control
Nuendo/Cubase™, Logic Pro™, Samplitude™, Bitwig™, Reason™, Reaper™, Studio One™ and Ableton Live™.

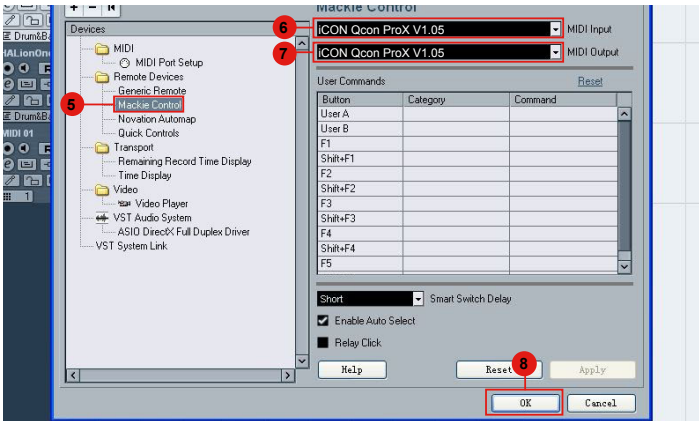
or the software below, please use HUI
Pro Tools™.

*(**Tip:** You may also refer to our website at **www.iconproaudio.com**, where you’ll find set up illustrations for different DAW’s in each controller (QconPro X) product page’s “Setup demo” section.*
For DAW’s not on our setup demo list, please refer to your software user manual for hardware setup.)

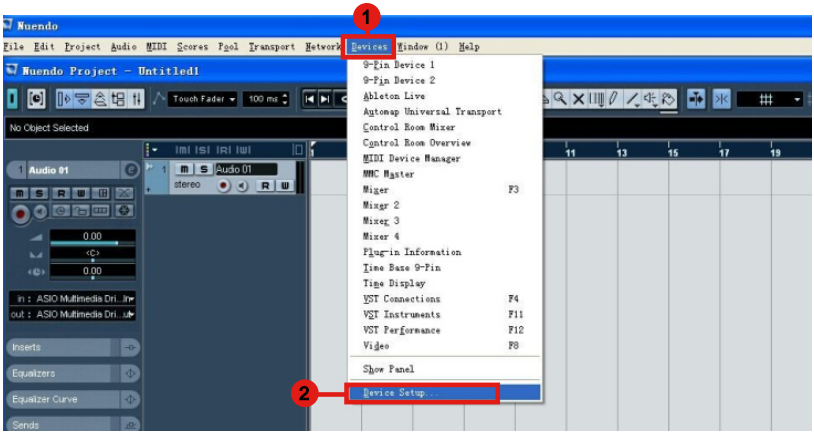
Cubase

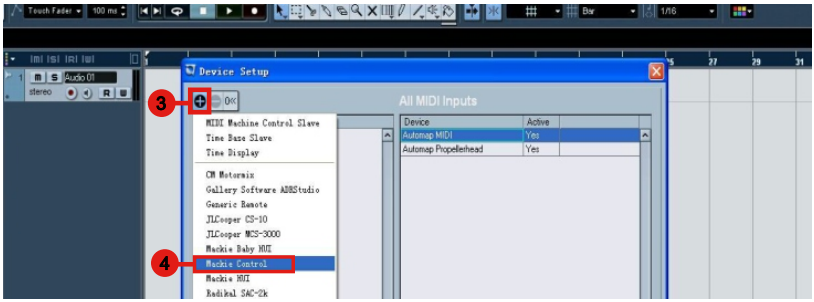


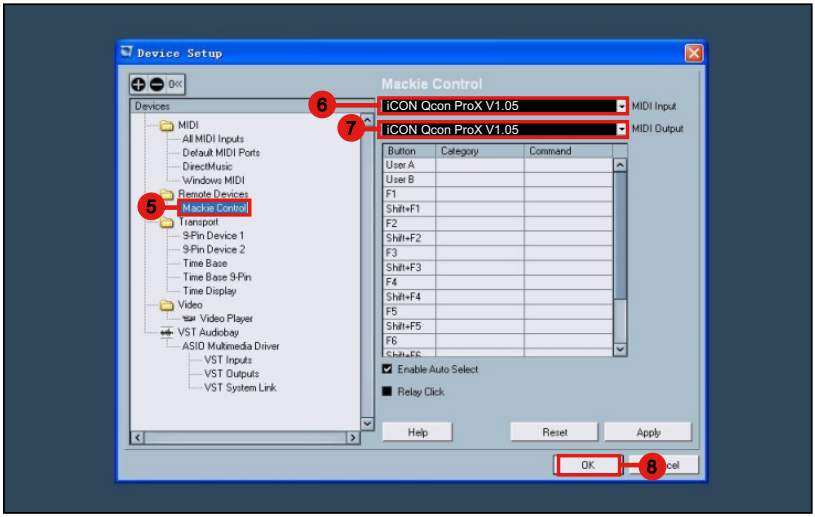




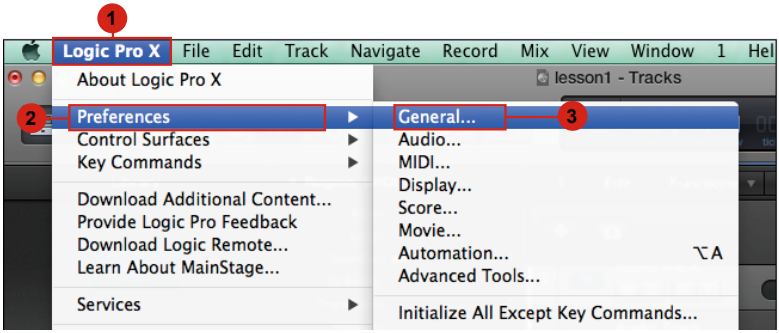
Nuendo

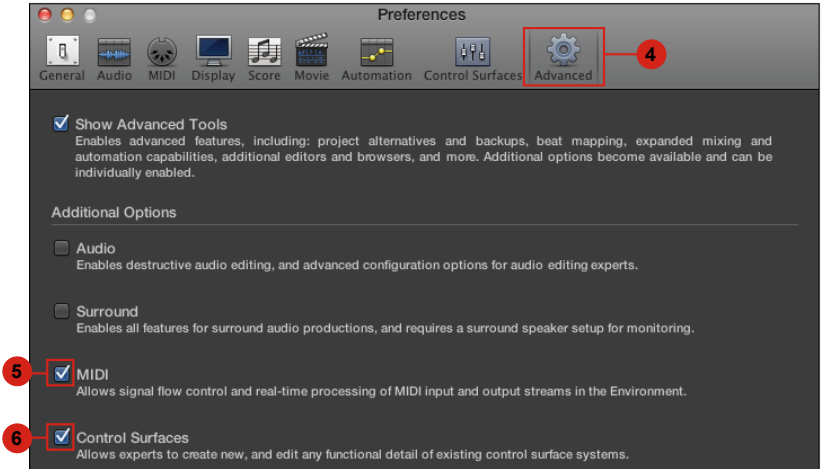

1
Nuendo
File Edit Project Audio MIDI Scores Pool Transport Network Devices Window (1) Help
Nuendo Project - Untitled1
No Object Selected
9-Pin Device 1
9-Pin Device 2
Ableton Live
Automap Universal Transport
Control Room Mixer
Control Room Overview
MIDI Device Manager
MMC Master
Mixer F3
Mixer 2
Mixer 3
Mixer 4
Plug-in Information
Time Base 9-Pin
Time Display
VST Connections F4
VST Instruments F11
VST Performance F12
Video F8
Show Panel
Device Setup...
2

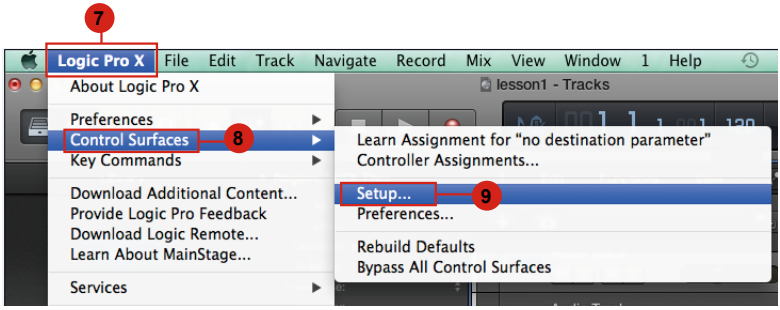

Device Setup
3
All MIDI Inputs
Device
Active
Automap MIDI
Automap Propellerhead
MIDI Machine Control Slave
Time Base Slave
Time Display
CM Motormix
Gallery Software ADSStudio
Generic Remote
JLCooper CS-10
JLCooper MCS-3000
Mackie Baby MUI
Mackie Control
Mackie MUI
Radikal SAC-2k
4

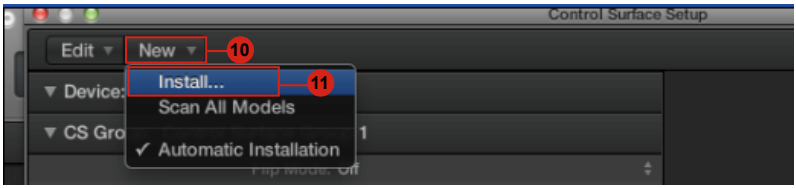

Device Setup
Mackie Control
Devices
6
iCON Qcon ProX V1.05
MIDI Input
7
iCON Qcon ProX V1.05
MIDI Output
MIDI
All MIDI Inputs
Default MIDI Ports
DirectMusic
Windows MIDI
Remote Devices
5
Mackie Control
Transport
9-Pin Device 1
9-Pin Device 2
Time Base
Time Base 9-Pin
Time Display
Video
Video Player
VST Audiobay
ASIO Multimedia Driver
VST Inputs
VST Outputs
VST System Link
Button
Category
Command
User A
User B
F1
Shift+F1
F2
Shift+F2
F3
Shift+F3
F4
Shift+F4
F5
Shift+F5
F6
Enable Auto Select
Relay Click
Help
Reset
Apply
OK
8

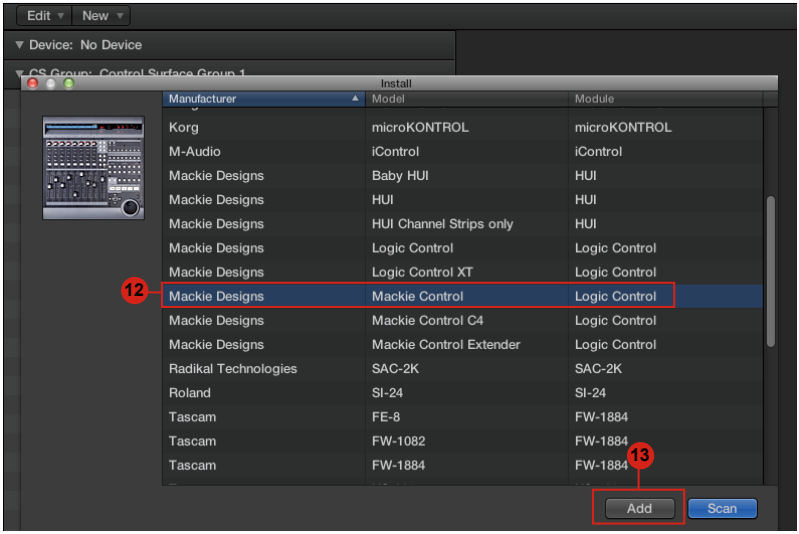
Logic Pro


1
Logic Pro X
File
Edit
Track
Navigate
Record
Mix
View
Window
1
Hel
About Logic Pro X
lesson1 - Tracks
2
Preferences
Control Surfaces
Key Commands
Download Additional Content...
Provide Logic Pro Feedback
Download Logic Remote...
Learn About MainStage...
Services
General...
3
Audio...
MIDI...
Display...
Score...
Movie...
Automation...
⌥A
Advanced Tools...
Initialize All Except Key Commands...


Preferences
General
Audio
MIDI
Display
Score
Movie
Automation
Control Surfaces
Advanced
4
Show Advanced Tools
Enables advanced features, including: project alternatives and backups, beat mapping, expanded mixing and automation capabilities, additional editors and browsers, and more. Additional options become available and can be individually enabled.
Additional Options
Audio
Enables destructive audio editing, and advanced configuration options for audio editing experts.
Surround
Enables all features for surround audio productions, and requires a surround speaker setup for monitoring.
5
MIDI
Allows signal flow control and real-time processing of MIDI input and output streams in the Environment.
6
Control Surfaces
Allows experts to create new, and edit any functional detail of existing control surface systems.

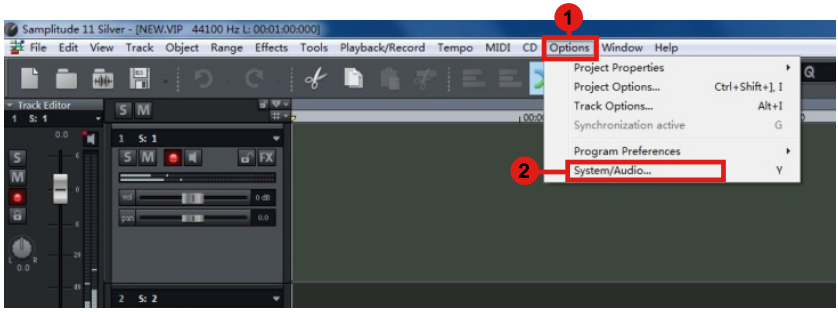

7
Logic Pro X
File
Edit
Track
Navigate
Record
Mix
View
Window
1
Help
About Logic Pro X
lesson1 - Tracks
Preferences
Control Surfaces
8
Key Commands
Download Additional Content...
Provide Logic Pro Feedback
Download Logic Remote...
Learn About MainStage...
Services
Learn Assignment for "no destination parameter"
Controller Assignments...
Setup...
9
Preferences...
Rebuild Defaults
Bypass All Control Surfaces

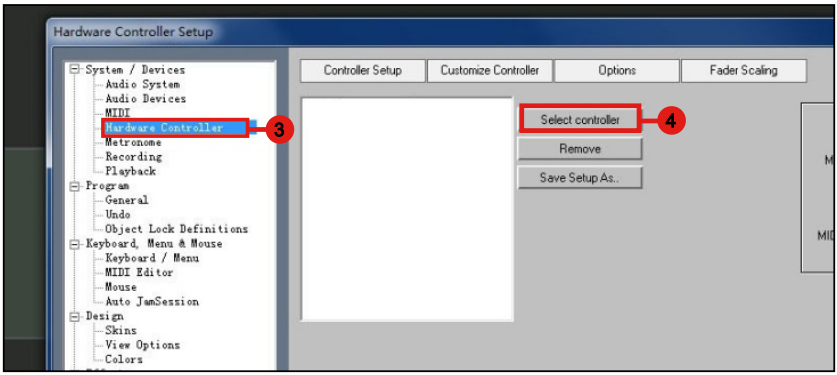

Control Surface Setup
Edit
New
10
Install...
11
Scan All Models
Automatic Installation
Device:
CS Gro

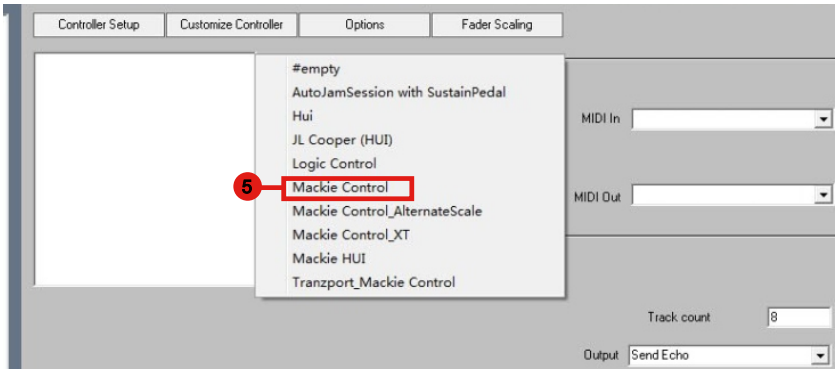

Edit
New
Device: No Device
Install
Manufacturer
Model
Module
Korg
microKONTROL
microKONTROL
M-Audio
iControl
iControl
Mackie Designs
Baby HUI
HUI
Mackie Designs
HUI
HUI
Mackie Designs
HUI Channel Strips only
HUI
Mackie Designs
Logic Control
Logic Control
Mackie Designs
Logic Control XT
Logic Control
12
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
13
Add
Scan

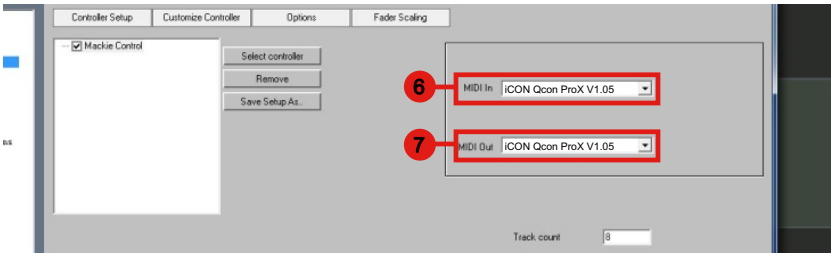

Control Surface Setup
Edit
New
Device: Mackie Control
14
Output Port: iCON Qcon ProX V1.05
15
Input Port: iCON Qcon ProX V1.05
Module: Logic Control
Model: Mackie Control
Version: (unknown)
Color:
Transport Button Click:
Touchless movable faders:
Fader Touch Sensitivity: 3
Backlight Saver Timeout (min): 15
Mackie Control

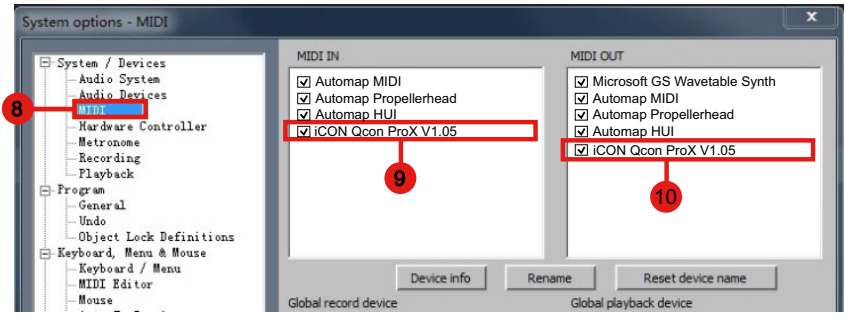
Samplitude


1
Samplitude 11 Silver - [NEW.VIP 44100 Hz L: 00:01:00:000]
File Edit View Track Object Range Effects Tools Playback/Record Tempo MIDI CD Options Window Help
Project Properties
Project Options... Ctrl+Shift+], I
Track Options... Alt+I
Synchronization active G
Program Preferences
2
System/Audio... Y
Track Editor

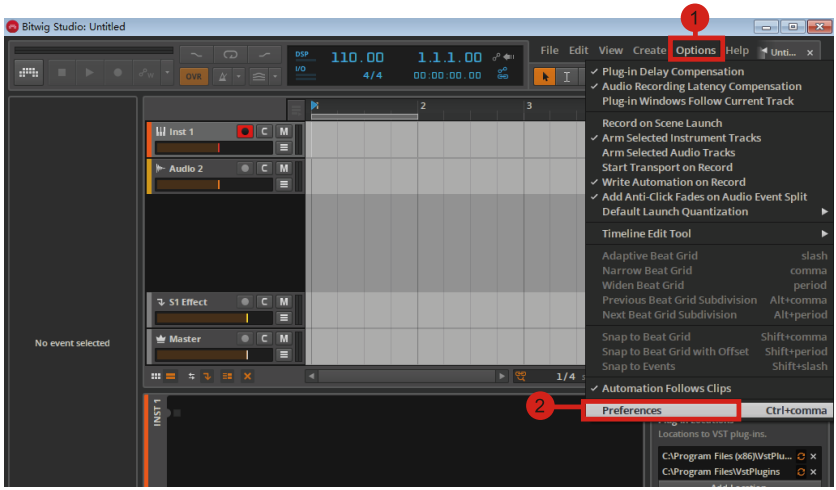

Hardware Controller Setup
System / Devices
Audio System
Audio Devices
MIDI
Hardware Controller
Metronome
Recording
Playback
Program
General
Undo
Object Lock Definitions
Keyboard, Menu & Mouse
Keyboard / Menu
MIDI Editor
Mouse
Auto JamSession
Design
Skins
View Options
Colors
Controller Setup
Customize Controller
Options
Fader Scaling
Select controller
Remove
Save Setup As..
3
4

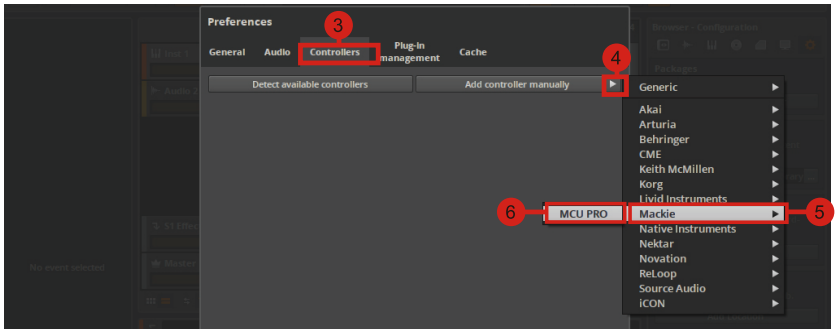

Controller Setup
Customize Controller
Options
Fader Scaling
#empty
AutoJamSession with SustainPedal
Hui
JL Cooper (HUI)
Logic Control
Mackie Control
Mackie Control_AlternateScale
Mackie Control_XT
Mackie HUI
Tranzport_Mackie Control
5
MIDI In
MIDI Out
Track count
8
Output
Send Echo

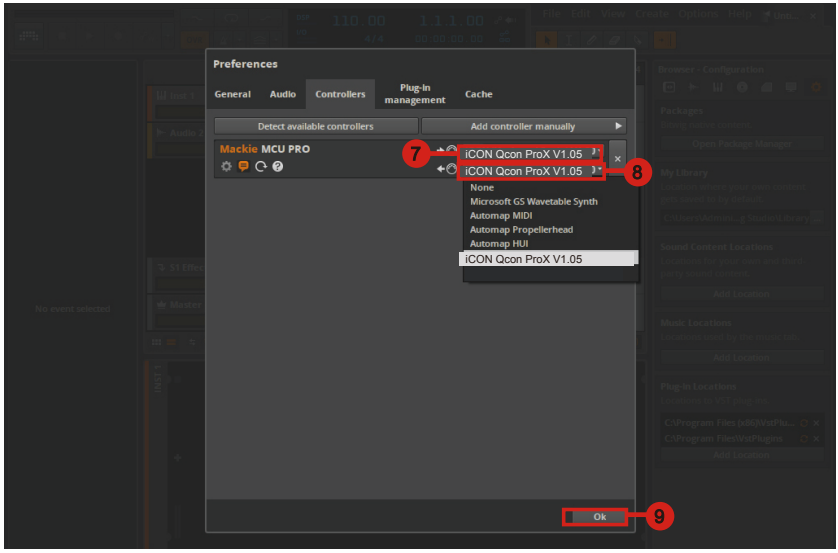

Controller Setup
Customize Controller
Options
Fader Scaling
Mackie Control
Select controller
Remove
Save Setup As..
6
MIDI In
iCON Qcon ProX V1.05
7
MIDI Out
iCON Qcon ProX V1.05
Track count
8


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 Qcon ProX V1.05
9
MIDI OUT
Microsoft GS Wavetable Synth
Automap MIDI
Automap Propellerhead
Automap HUI
iCON Qcon ProX V1.05
10
Device info
Rename
Reset device name
Global record device
Global playback device

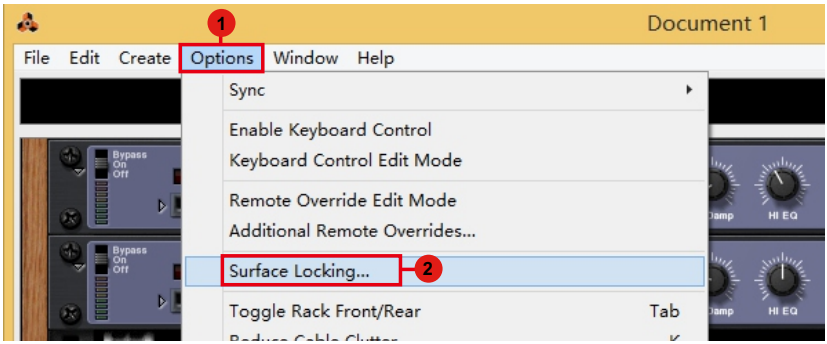
Bitwig

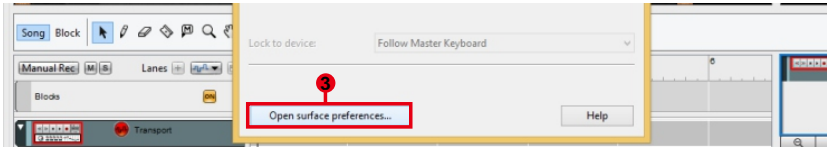

1
Options
2
Preferences
Ctrl+comma

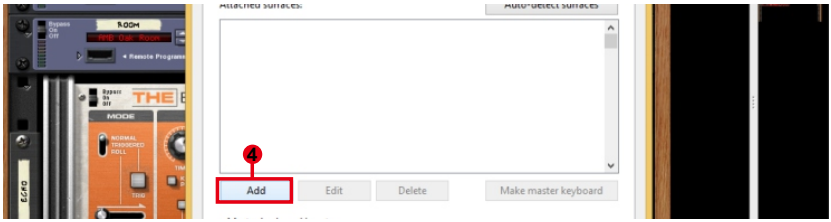

Preferences
3
General
Audio
Controllers
Plug-in management
Cache
4
Detect available controllers
Add controller manually
Generic
Akai
Arturia
Behringer
CME
Keith McMillen
Korg
Livid Instruments
Mackie
Native Instruments
Nektar
Novation
ReLoop
Source Audio
iCON
6
MCU PRO
5

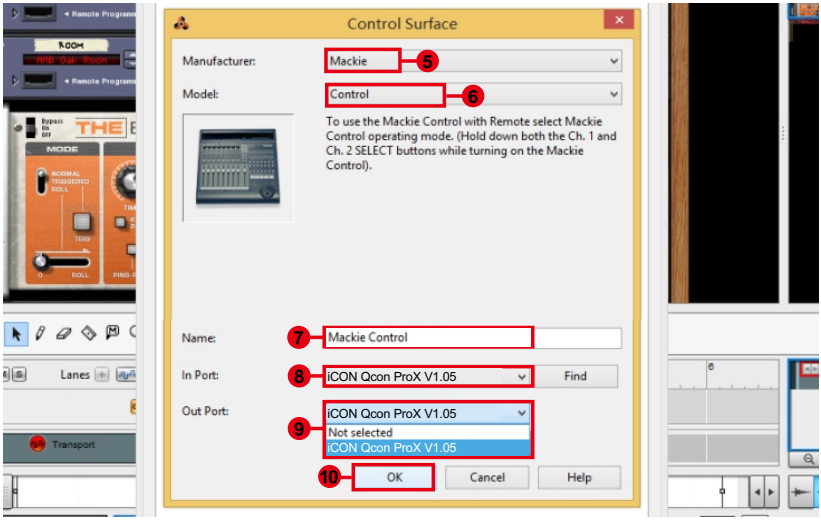

Preferences
General
Audio
Controllers
Plug-in management
Cache
Detect available controllers
Add controller manually
Mackie MCU PRO
7
iCON Qcon ProX V1.05
iCON Qcon ProX V1.05
8
None
Microsoft GS Wavetable Synth
Automap MIDI
Automap Propellerhead
Automap HUI
iCON Qcon ProX V1.05
Ok
9

Reason

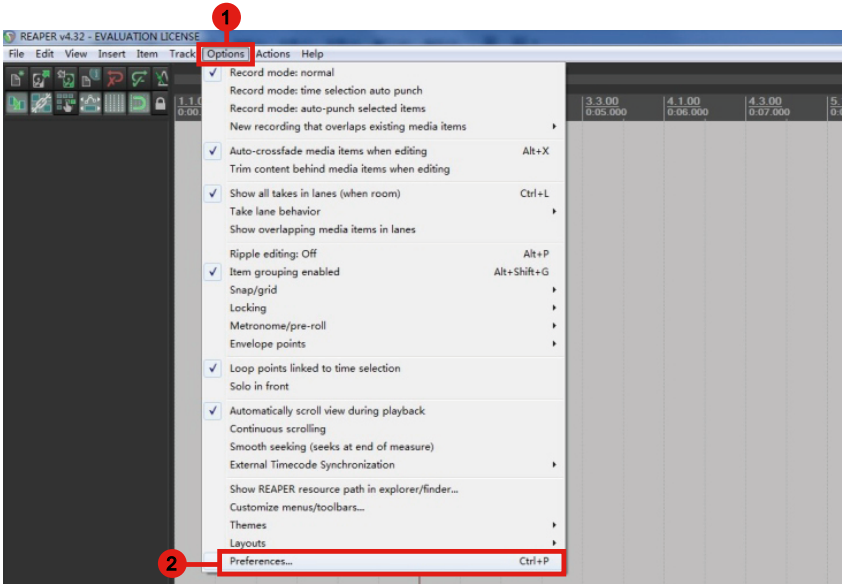

1
Document 1
File
Edit
Create
Options
Window
Help
Sync
Enable Keyboard Control
Keyboard Control Edit Mode
Remote Override Edit Mode
Additional Remote Overrides...
Surface Locking...
2
Toggle Rack Front/Rear
Tab

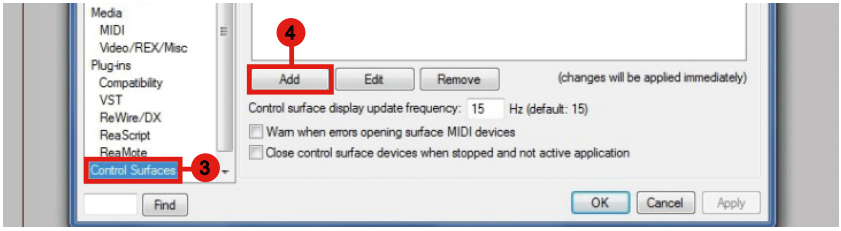

Song
Block
Manual Rec
Lanes
Blocks
Transport
Lock to device:
Follow Master Keyboard
3
Open surface preferences...
Help

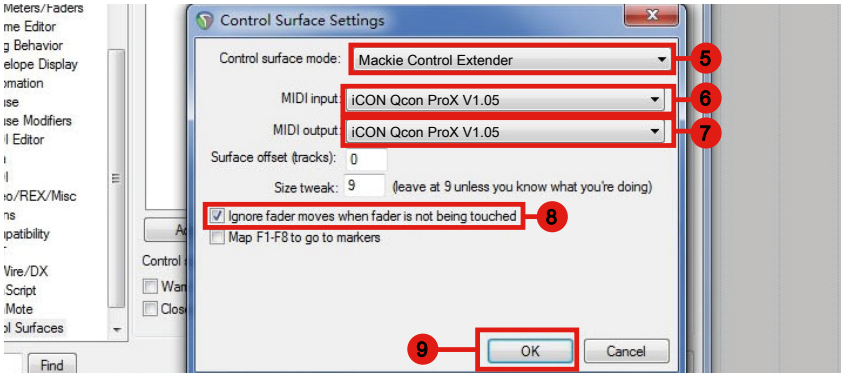

4
Add
Edit
Delete
Make master keyboard


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 Qcon ProX V1.05
Find
Out Port:
iCON Qcon ProX V1.05
9
Not selected
iCON Qcon ProX V1.05
10
OK
Cancel
Help

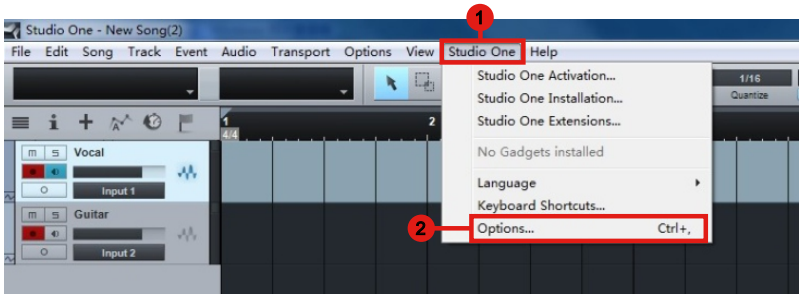
Reaper

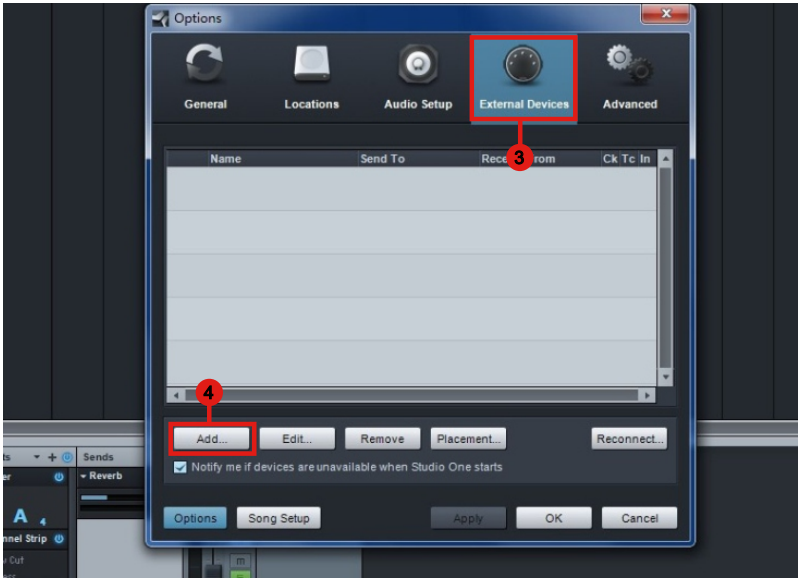

1
REAPER v4.32 - EVALUATION LICENSE
File Edit View Insert Item Track Options Actions Help
Record mode: normal
Record mode: time selection auto punch
Record mode: auto-punch selected items
New recording that overlaps existing media items
Auto-crossfade media items when editing Alt+X
Trim content behind 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

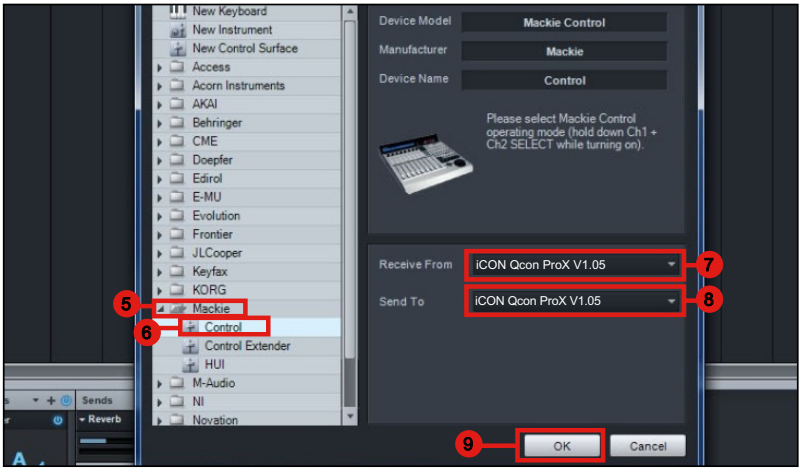

Media
MIDI
Video/REX/Misc
Plug-ins
Compatibility
VST
ReWire/DX
ReaScript
ReaMote
Control Surfaces
3
4
Add
Edit
Remove
(changes will be applied immediately)
Control surface display update frequency: 15 Hz (default: 15)
Warn when errors opening surface MIDI devices
Close control surface devices when stopped and not active application
Find
OK
Cancel
Apply


Control Surface Settings
Control surface mode: Mackie Control Extender
5
MIDI input: iCON Qcon ProX V1.05
6
MIDI output: iCON Qcon ProX V1.05
7
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
8
Map F1-F8 to go to markers
9
OK
Cancel
Find

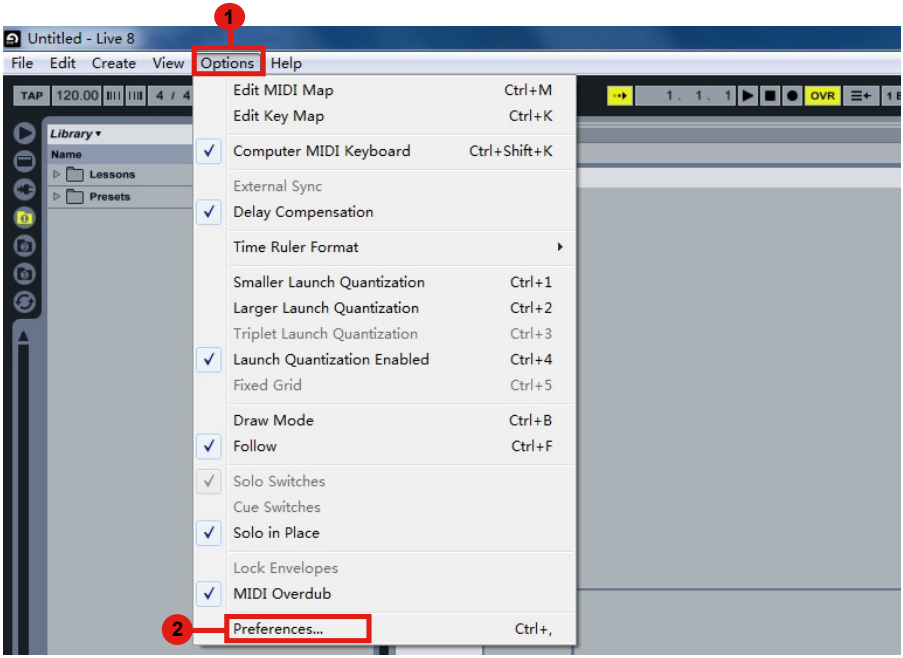
Studio One

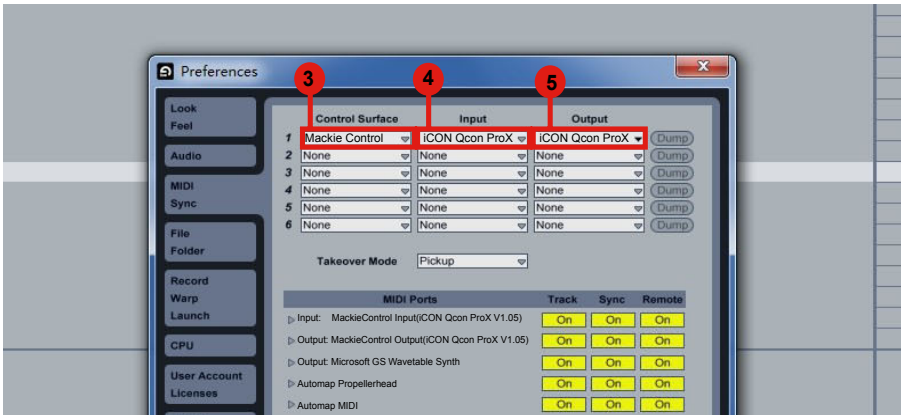

Studio One - New Song(2)
File Edit Song Track Event Audio Transport Options View Studio One Help
Studio One Activation...
Studio One Installation...
Studio One Extensions...
No Gadgets installed
Language
Keyboard Shortcuts...
Options... Ctrl+,
Vocal
Input 1
Guitar
Input 2
1
2


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

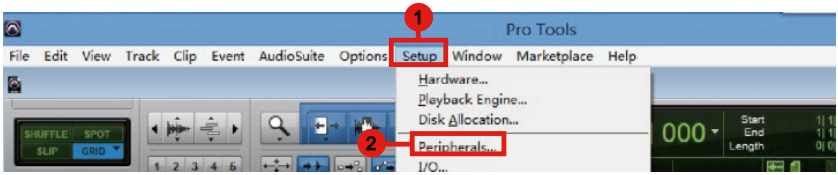

New Keyboard
New Instrument
New Control Surface
Access
Acorn Instruments
AKAI
Behringer
CME
Doepfer
Edirol
E-MU
Evolution
Frontier
JLCooper
Keyfax
KORG
Mackie
Control
Control Extender
HUI
M-Audio
NI
Novation
5
6
Device Model
Mackie Control
Manufacturer
Mackie
Device Name
Control
Please select Mackie Control operating mode (hold down Ch1 + Ch2 SELECT while turning on).
Receive From
iCON Qcon ProX V1.05
Send To
iCON Qcon ProX V1.05
7
8
9
OK
Cancel

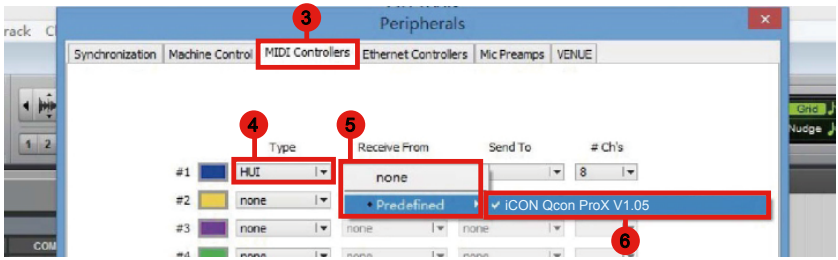
Ableton Live

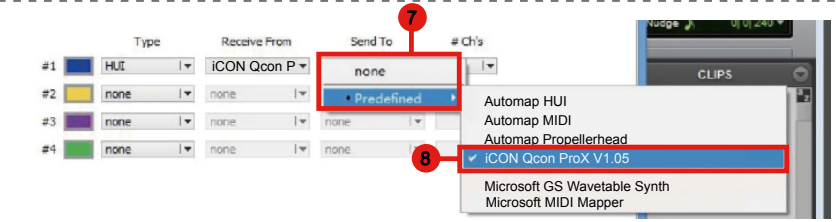




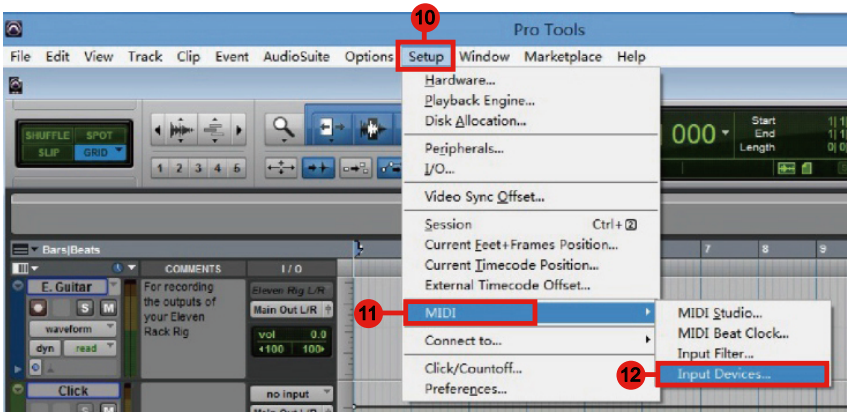
Pro Tools

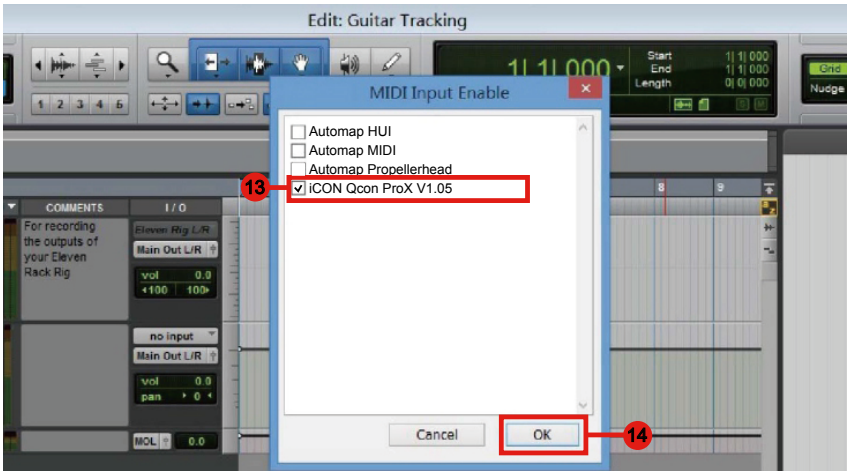

1
Pro Tools
File Edit View Track Clip Event AudioSuite Options Setup Window Marketplace Help
Hardware...
Playback Engine...
Disk Allocation...
2
Peripherals...
I/O...


3
Peripherals
Synchronization
Machine Control
MIDI Controllers
Ethernet Controllers
Mic Preamps
VENUE
4
Type
5
Receive From
Send To
Ch's
#1
HUI
none
8
#2
none
Predefined
iCON Qcon ProX V1.05
#3
none
6


7
Type
Receive From
Send To
Ch's
#1
HUI
iCON Qcon P
none
#2
none
Predefined
#3
none
#4
none
CLIPS
Automap HUI
Automap MIDI
Automap Propellerhead
8
iCON Qcon ProX V1.05
Microsoft GS Wavetable Synth
Microsoft MIDI Mapper


Peripherals
Synchronization
Machine Control
MIDI Controllers
Ethernet Controllers
Mic Preamps
VENUE
Type
Receive From
Send To
Ch's
#1
HUI
iCON Qcon P
iCON Qcon P
8
9
#2
none


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+2
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...
Bars|Beats
COMMENTS
I/O
E. Guitar
Click


Edit: Guitar Tracking
MIDI Input Enable
Automap HUI
Automap MIDI
Automap Propellerhead
iCON Qcon ProX V1.05
13
Cancel
OK
14
COMMENTS
I / O
For recording the outputs of your Eleven Rack Rig
Main Out L/R
no input
Start
End
Length
Nudge

Download the Mac iMap from your Personal User Page at www.iconproaudio.com

After you downloaded the file, please click it to start the installation process.

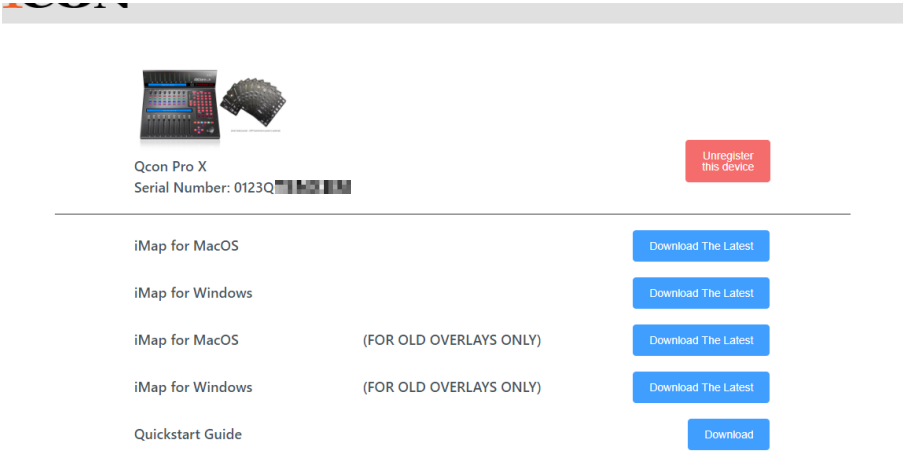


Diagram 1

1. iMap™ Software for Mac OS X

Please follow the procedures below step-by-step to launch your iMap™ software to Mac OS X.

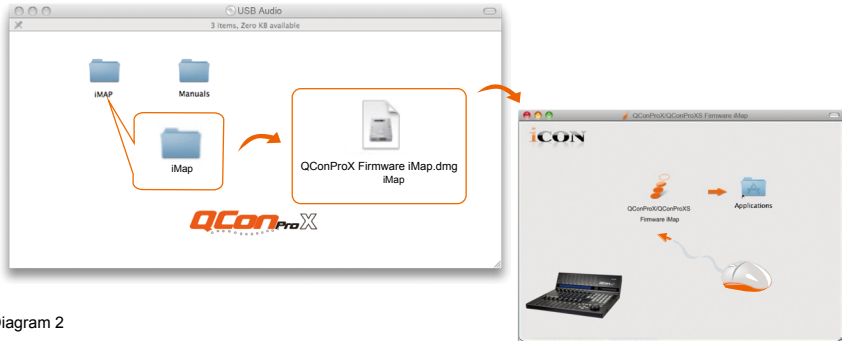


Diagram 2

Tip: *By "drag and drop" the "QconPro X" icon into the "Applications" folder, you could create a "iMap" shortcut on your Mac's desktop.*

Installing iMap™ Software for Windows

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

1. **Turn on your PC.**

2. **Download the Windows iMap from your Personal User Page at www.iconproaudio.com**
   After you downloaded the file, please click it to start the installation

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

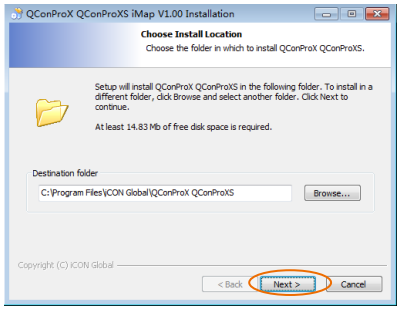


Diagram 3

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

5. **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”.

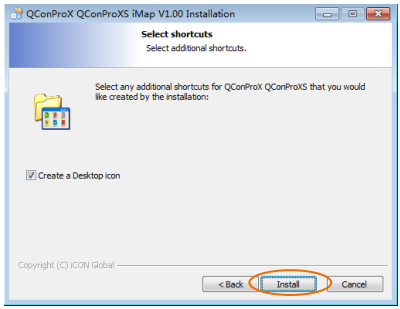


Diagram 4

Diagram 5

6. iMap™ started to install

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



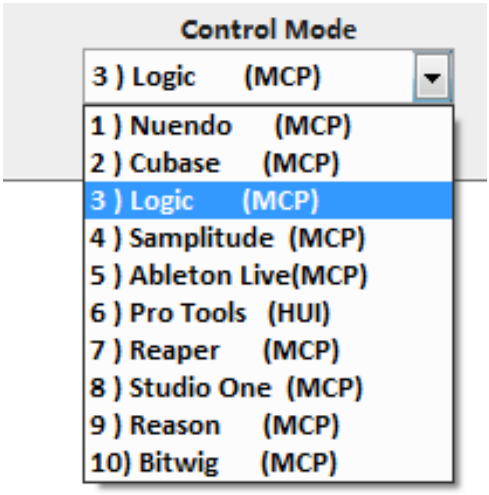
Diagram 5

7. Click the iMap logo on your desktop to launch the iMap software.



Diagram 6

Assigning DAW Mode (Mackie Control/HUI) or Defining MIDI Functions with iMap™

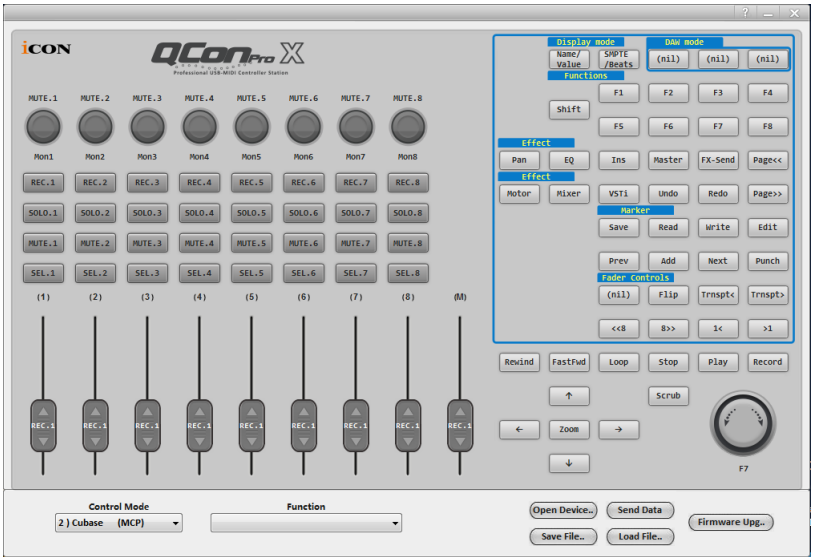


There are two different methods for setting up your QconPro X. In general, it is simpler and faster to set the device to pre-mapped DAW modes with Mackie Control/HUI protocol, depended on which DAW you use. The device has built-in DAW Mackie/HUI protocols as follows:

1. Nuendo (Mackie Control Protocol) – For Nuendo
2. Cubse (Mackie Control Protocol) – For Cubase
3. Logic (Mackie Control Protocol) – For Logic Pro X
4. Samplitude (Mackie Control Protocol) – For Samplitude Pro
5. Ableton Live (Mackie Control Protocol) – For Ableton Live
6. ProTools (HUI Control Protocol) – For Pro Tools
7. Reaper (Mackie Control Protocol) – For Reaper
8. Studio One (Mackie Control Protocol) – For Studio One
9. Reason (Mackie Control Protocol) – For Reason
10. Bitwig (Mackie Control Protocol) – For Bitwig

Or you can define each control element on your QconPro X with your own MIDI messages provided in iMap's function pull-down menu. However, unless you fully understand the MIDI structure of your DAW, this can be very troubling to set up. We strongly recommend that you use the pre-mapped DAW modes, as they are programmed according to the most popular user preferences, and are most likely to suit your needs.

Assigning DAW Mode (Mackie control/HUI) Using iMap™



iMap™ QconPro X software panel

Tip: *You may also use the hardware to select DAW instead of through iMap. Please refer to P.13-14 for instructions.*

To begin DAW mode setup, connect your QconPro X with iMap. Follow the steps below:

1. **Connect QconPro X to your Mac/PC**

2. **Launch iMap and click “Connect Device”**

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

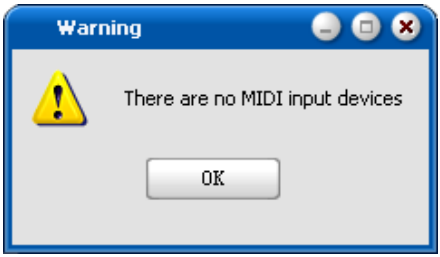
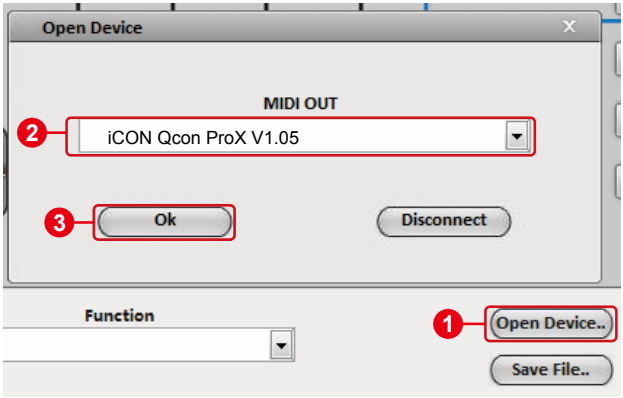
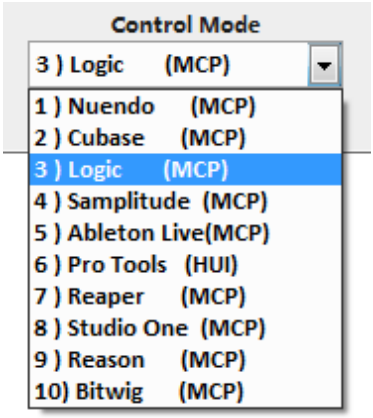


Diagram 7

3. **Select “QconPro X” from the pop-up menu as your MIDI out device.**



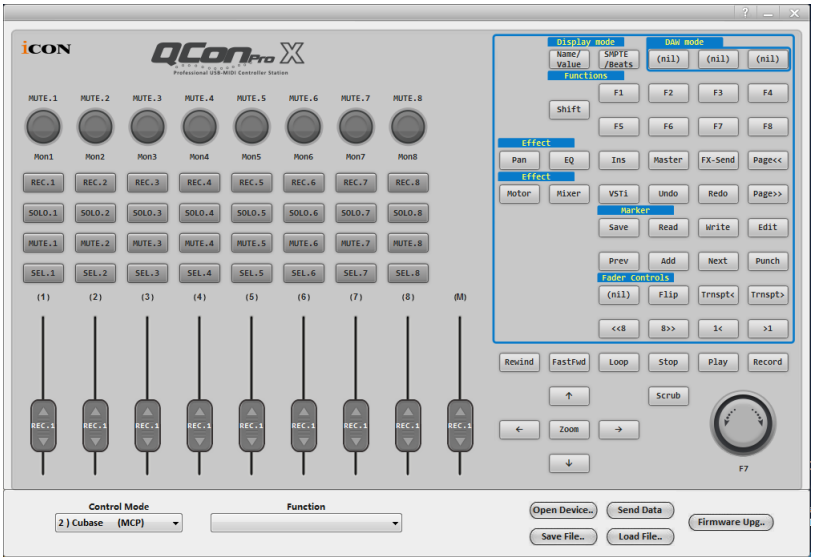
4. **According to your DAW, select the DAW Mackie/HUI protocol mode from the “Mode” pull-down menu. Different DAW modes are listed below:**
   1. Nuendo (Mackie Control Protocol) – For Nuendo
   2. Cubse (Mackie Control Protocol) – For Cubase
   3. Logic (Mackie Control Protocol) – For Logic Pro X
   4. Samplitude (Mackie Control Protocol) – For Samplitude Pro
   5. Ableton Live (Mackie Control Protocol) – For Ableton Live
   6. ProTools (HUI Control Protocol) – For Pro Tools
   7. Reaper (Mackie Control Protocol) – For Reaper
   8. Studio One (Mackie Control Protocol) – For Studio One
   9. Reason (Mackie Control Protocol) – For Reason
   10. Bitwig (Mackie Control Protocol) – For Bitwig



5. **After you have finished creating all settings, click “Send Data”.**

6. **Close iMap.**

Assigning MIDI Messages in User-Defined Mode Using iMap™



iMap™ QconPro X software panel

To begin the “User defines” mode setup, let make the connection of your QconPro X with iMap. Please follow the below steps:

1. **Connect QconPro X to your Mac/PC**

2. **Launch iMap and click “Connect Device”**
   Note: *If your QconPro X is not connected to your Mac/PC, the message “There are no MIDI input devices” will appear. Please connect QconPro X to your Mac/PC with the provided USB cable.*

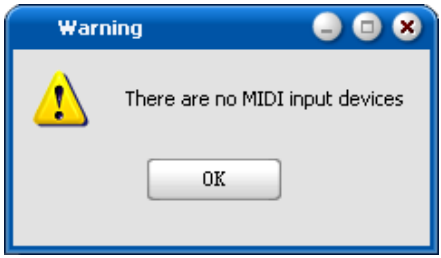
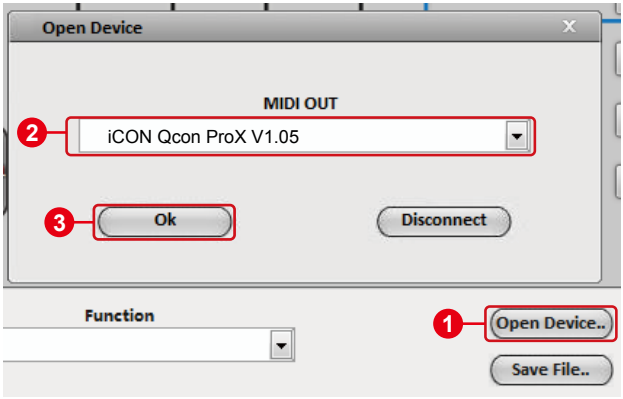
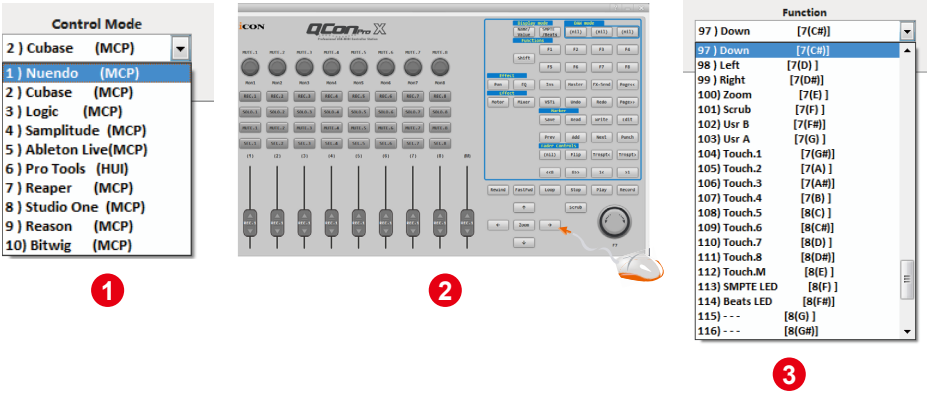


Diagram 8

3. **Select “QconPro X” from the pop-up menu as your MIDI out device.**



4. **① Select the DAW mode for your intended DAW. ② Then select the control elements such as buttons, knob (rotate/ enter), or faders that you would like to assign a new midi function. ③ After selecting a control element, select a function from the “Function” pull down menu. Please see below for each control element setting in User-Defined Mode.**

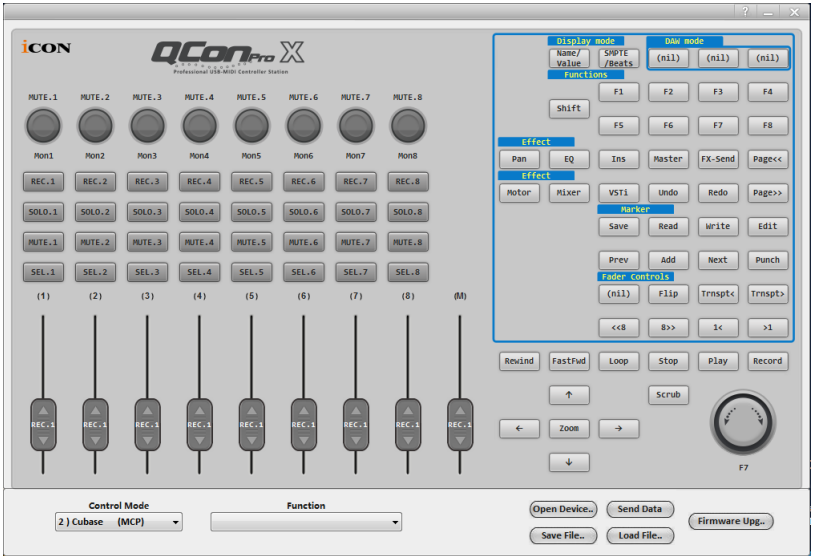


5. **After you have finished all setting, click “Send Date” button.**

6. **Close iMap.**

Control Element Setup in User-Defined Mode

iMap™ QconPro X software panel



There are controls including faders, knobs, buttons and jog wheel etc. on QconPro X that you could set your own MIDI messages. Four types of message including "Pitch", "Note" & "CC" value you may adjust depended on the control element. Please refer to the below table for different control available setting values.
Also, according to your using DAW, select the control protocol (MCP or HUI) in order to create the communication bridge between your QconPro X to the DAW. Please refer to below table for the suggested control protocol for different DAW.

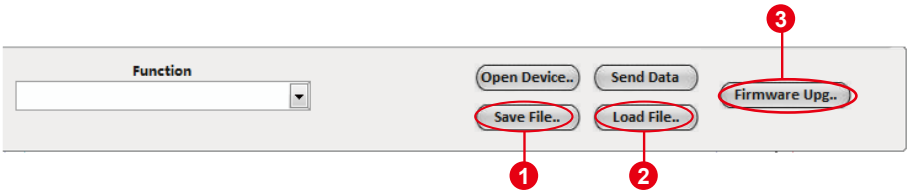
"Suggest protocol for different DAW"

Nuendo	MCP
Cubase	MCP
Logic Pro X	MCP
Samplitude Pro	MCP
Ableton Live	MCP
Pro Tools	HUI
Reaper	MCP
Studio One	MCP
Reason	MCP
Bitwig	MCP

“Control elements chart”

Control protocol	Control	Element	Avalaible MIDI message setting values		
			Message type	Channel	Message
MCP	Faders	Slide	Pitch	1-9	0-127
			CC		Bank MSB to Poly Mode On
		Touch sensitive	Note	-	C(-1) to G(9)
HUI		Slide	CC	-	0-9
		Touch sensitive	CC	-	0-100
MCP	Knobs	Rotate	CC	-	Bank MSB to Poly Mode On
		Enter	Note	-	C(-1) to G(9)
HUI		Rotate	CC	-	0-9
		Enter	CC	-	0-100
MCP	JogWheel	Rotate	CC	-	0-9
HUI		Rotate	CC	-	0-9
MCP	Buttons	All buttons except "Lock", "<<",">>","DAW"button	Note	-	C(-1) to G(9)
HUI		All buttons except "Read", "Write", "Touch", "Latch","Trim", "Off","Plug-in"	CC	-	0-100

Other Functions in iMap™



1. “Save file” button

Click this button to save your current settings for the QconPro X. The file is an “. QconPro X” file.

2. “Load file” button

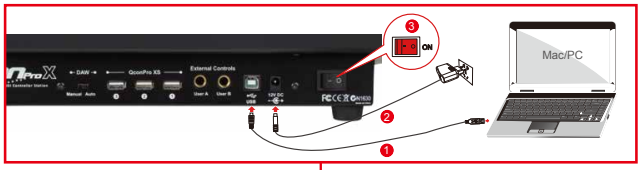
Click this button to load a previously saved “. QconPro X” setting file for your QconPro X.

3. “Firmware Upgrade” button

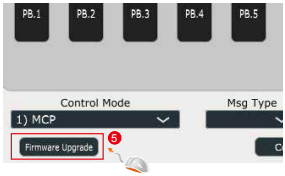
Click this button to enter into the firmware upgrade window for QconPro X. Please refer to P.38 for the firmware upgrade procedure.

Firmware upgrade

QconPro X functional firmware upload procedure







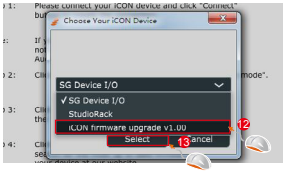




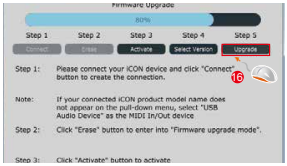


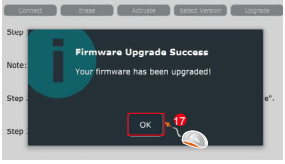


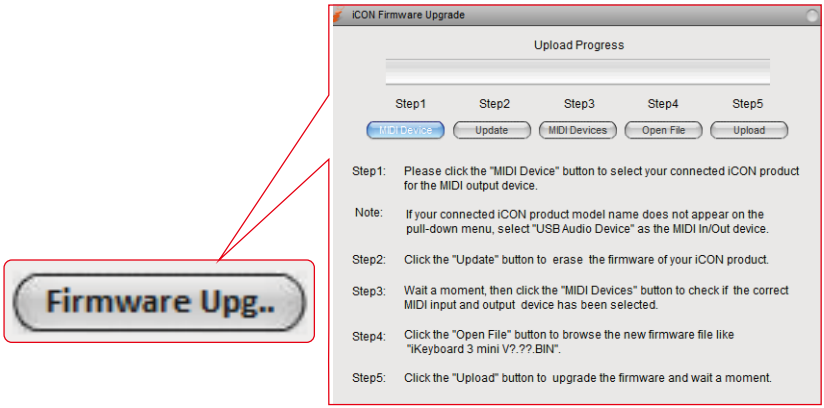












Connect QconPro X to your Mac/PC with the provided USB cable and launch iMap. Click “Firmware Upgrade” to launch the window and follow the steps below carefully to upgrade

Warning: *The firmware upload process “MUST” be completed and not be interrupted during the file upload process, otherwise the unit may not able to be restored, in which case your device may require service centre repair before it can be reactivated.*

Step 1: Please click the first "MIDI Device" button above to select QconPro X as the MIDI output device.

Note: *If QconPro X does not appear on the pull-down menu, select "USB Audio Device" as the MIDI In/Out device.*

Step 2: Click "Update" to erase the firmware. A pop-up message will show after the firmware has erased successfully.

Step 3: Please wait a few seconds to ensure the unit has completely rebooted, and then click the third button "MIDI Devices", to check if the correct MIDI input and output device has been selected.

Step 4: Click "Open File" to browse to the new firmware such as "QconPro X V1.00.BIN".

Step 5: Click "Upload" to upgrade the firmware, and wait until its completion.

Restore the factory default settings

To restore your QconPro X settings to factory default, simply launch iMap and import the original settings (i.e. without making any changes) to the device through the following steps.

1. Connect QconPro X with the provided USB cable and launch iMap software.

2. Click the “MIDI Device” button and select “QconPro X” as the MIDI input and output device.
   Note: *If QconPro X does not appear on the pull down menu, select USB audio as the MIDI I/O device.*

3. Click “Send Data” to upload the setting to your QconPro X.

4. Close iMap, and then turn the QconPro X power of off & on again.

Specifications

Connector:	To computer	USB connector (standard type)
	To extender	USB connector (B-Type)
Power supply:		12V/2.5A DC
Current consumption:		2A or less
Weight:		6kg (13.2lb)
Dimensions:		473(L) x 416(W) x 188(H)mm
		18.62”(L) x 16.38”(W) x 7.4”(H)

Services

If your QconPro X 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 Help Center at the link below, and our technical support team will assist you as soon as we can.
Navigate to **http://support.iconproaudio.com/hc/en-us** and then sign in to submit a ticket.
As soon as you have submitted an inquiry ticket, our support team will assist you to resolve the problem with your ICON ProAudio device as soon as possible.

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 centers and distributor service points at the link below:

   If you are located in US
   Send the product to:
   North America
   Mixware, LLC – U.S. Distributor
   11070 Fleetwood Street – Unit F.
   Sun Valley, CA 91352; USA
   Tel.: (818) 578 4030
   Contact: www.mixware.net/help

   If you are located in Europe
   Send the product to:
   Sound Service
   GmbHEuropean
   HeadquarterMoriz-Seeler-Straße
   3D-12489 Berlin
   Telephone: +49 (0)30 707 130-0
   Fax: +49 (0)30 707 130-189
   E-Mail: info@sound-service.eu

   If you are located in Hong 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.
   Tel: (852) 2398 2286
   Fax: (852) 2789 3947
   Email: info.asia@icon-global.com

5. For additional update information please visit our website at:
   www.iconproaudio.com

AppendixA

Control Surface Functionality Manual

Cubase

QCon Pro X, QCon Pro XS, QCon Pro G2, QCon EX G2 Platform M+, Platform B+, Platform D2, Platform X+, Platform Nano

Revision v0.71

This is a master manual. Specific device manuals can be built from this material

Congratulations on owning an Icon control surface! This manual documents the full range of potential functions when the device is installed in Cubase.

You can extensively controlCubase with an Icon QCon seriescontrol surface or Icon Platform modular control system using standard MackieControl protocol.Expansion bank units can be addedfor more hands-on controls:QCon expansion units for the QCon series and the Platform X+ channel bank expansion. Platform B+ button module is necessary toaccess all functions in this manual with Platform M+, and the D2 display highly recommended.Icon Metal Fader Caps and Icon Metal Knob Caps are available as an aesthetic and haptic upgrade for the best control experience.

The term Mackie Control is used to refer to the control protocol standardto be used withthe QCon and Platform series control surfaces, and is abbreviated as MCP.The terms , Cubase, and all Cubase-specificterminology belong to Steinberg and has no affiliation with Icon Pro Audio.

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Troubleshooting ..... -

Firmware Update ..... -

Fader Calibration ..... -

MCP MIDI Implementation Table..... -

Renamed Buttons ..... -

<<<<<Color Reference Key>>>>>

Control Surface Function

Control Surface Button

DAW Term

ButtonA + ButtonB =hold Button A and press Button B

Button A - Button B = press Button A and then press Button B

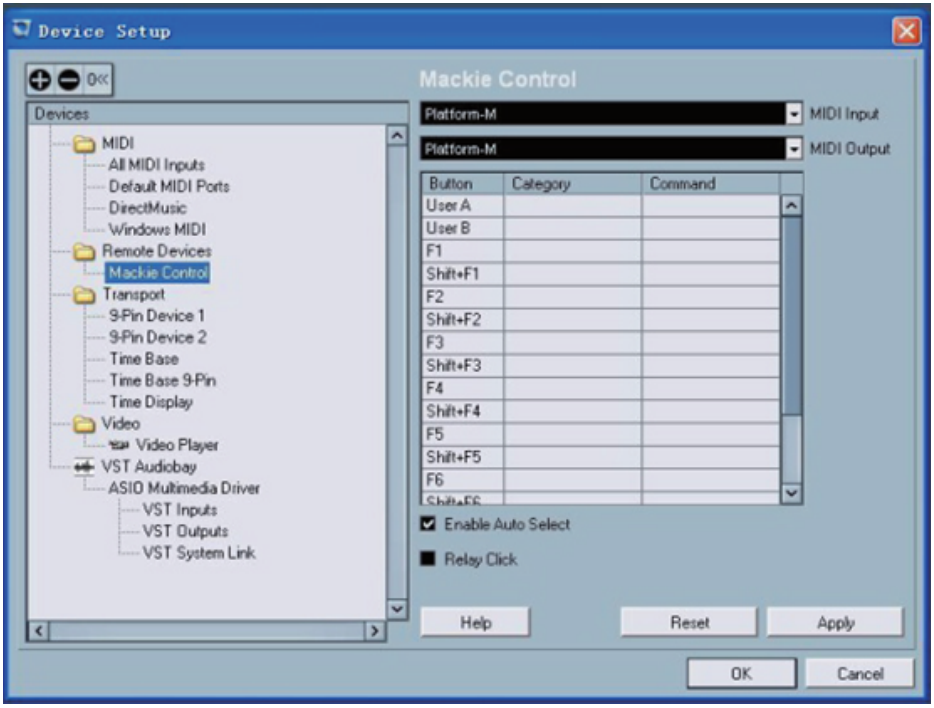
<<<<<<<<< Setup>>>>>>>>>

Before you can use your control surface, you will first need to configure it in Cubase. Once the setup is successful, by defaultCubase will remember your settings for future sessions without the need to reconfigure. For maximum stability, first boot the control surface and select the DAW Mode, then start your DAW software.

When your control surface is switched on, it will first prompt for a DAW Mode selection. Select the corresponding mode with the illuminated navigation buttons and confirm selection with the highlighted DAW mode button. On Platform M+, the small channel indicator will light to show the currently selected DAW Mode. If no action is taken after startup, the control surface will select the last used mode after a few seconds.

To configure your Icon control surface in Cubase, go to Devices ->Device Setup. Delete previous Mackie Control configurations, then go to “+”and select Mackie Control. Finally choose your device name for both the Output Port and Input Port, displayed on the right under“Mackie Control”.

Repeat this process for any expansion modules. The configuration of each device needs to happen corresponding to the physical position of the control surfaces from left to right. You can now use your Icon control surface for transport, mix, and extended control functions. Next up: An overview ofthe fundamental elements for controlling Cubase.



<<<<<<<<< Getting Started >>>>>>>>>

When first opening a blank project inCubase, we are looking at the ProjectWindow. Add channels to your project here, and you will see the motor faders jump into position. Each Icon control surface has one physical bank consisting of 8 channel strip controls. Each channel strip corresponds to controls for one channel in your DAW. The channel name appears on the display above each channel. Touch a fader and adjust the channel's volume. Change a channel's volume in Cubase and the corresponding motor fader will adjust itself. You can balance the volume of multiple faders on the control surface simultaneously – already a huge mixing advantage of using a control surface. Press the Bank up / down buttons to scroll through further channels in the project in fixed blocks of 8.The Channel up / down buttons stepthe currently selected channelone channel at a time.

The 9th fader on your control surface is the Master Faderand always commands the master level, which engages after the output stage of the project, so after any plugins used on the output sum.This is advantageous for several classic mixing techniques and effectively regulates your monitor volume.

The Encoder Knobs edit parameters according to the current Assignment Mode. Turn them to edit a parameter or change a selection.Each knob affects the channel on that channel strip, or in advanced encoder modes, allknobs affect the currently selected channel. Press the knob to reset to the default value, or confirm a selection depending on the Assignment Mode.







<<<<<<<<<Mix and Transport>>>>>>>>>

Jog Wheel:

Turn the Jog Wheel to quickly adjust the project cursor position on the grid, visible in the Project Windowin Cubase. Press Scrub to scrub audio with the Jog Wheel. (On Platform M+, scrub is activated by pressing down the jog wheel.)

Transport:

The Transport section is used to operate playback.

Play = Begin playback

Stop = Stop playback

Rec (transport) = Begin recording Audio and MIDI input

FastForward= Shuttle the project cursor forwards

Rewind =Shuttle the project cursor backwards

Stop - Stop = Project cursor jumps to previous play position

Shift + FastForward= Project cursor jumps to end of project

Shift + Rewind = Project cursor jumps to start of project

Left = Project cursor jumps to left locator

Right = Project cursor jumps to right locator

Cycle = Toggle playback loop (set between the left and right locators)

Shift + Left = Set left locator to project cursor

Shift + Right = Set right locator to project cursor

Channel Strip Buttons:

Rec (channel) = Arms the channel strip for recording

Solo = Engage Solo for one or multiple channels

Mute = Engage Mute for one or multiple channels

Select = Focuses and selects the channel, displays the fullchannel name on the LCD display

Solo Defeat = De-solo all channels *(default QCon Pro X and B+ only)*

Shift + Solo Defeat= Un-mute all channels *(default QCon Pro X and B+ only)*

Shift + ChannelUp/Down= Bank by 1 channel instead of 8

Shift + BankUp/Down= Toggle switch Band/Channel

Monitoring:

In Pan Assignment, press the Encoder Knobs to toggle channel monitoring. This activates input monitoring mixed with audio playback output from Cubase.

Fader Lock:

Press Lock Mix to disable touch sensitive changes to fader position. Automation remains active. This is useful to secure a finished mix.

Press Motorsto disable all motor fader movement. This is useful to silence the control surface. When motors are disabled, the faders are still touch-responsive and can edit the mix.

Listen Mode:

Shift + Project = activate Listen Mode:

Solo = Engage Listen for one or multiple channels

Shift + Project = deactivate Listenfor all channels

There are settings in Cubase for Listen in the Control Room, which is found underOutputs in the Connections Window.

<<<<<<<<<View>>>>>>>>>

Displays:

The LCD display showschannel names and parameters, plus navigation forAssignment Modes and settings. Press Name/Value to toggleparameter values on the LCDdisplay.

Thedigitaltime displayshows the current project cursor position, either in bars and beats or in SMPTE time code format. Press SMPTE/Beatstotoggle the time display format.

Zoom &Cursor Arrows:

The Cursor Arrows (left, right, up, down)share the functions of the computer keyboard arrow keys. In Assignment Modes they change theEncoder Knob parameter selection and scroll through pages of parameters when editing plug-ins.

In the Project Window, the up/down Cursor Arrows select the previous/next channel.

In the Mixer Window, the left/right Cursor Arrows select the previous/next channel.

Press Zoom to activate zoom controls. When the Zoom button is illuminated, press the Cursor Arrows to adjust the view zoom in various Cubase windows.(On Platform M+, Zoom is managed by toggling the Zoom buttons and turning the jog wheel.)

Channel Bank Options:

Bank up/down = Scroll through channels in the project in fixed blocks of 8

Channel up/down = Step the current bank by onechannel

If expansion units are connected, bank left/right still scrolls by fixed blocks of 8 channels.

<<<<<<<<< Automation >>>>>>>>>>

Ease creating and managing automation is a highlight of using a control surface with motor faders. Press the Automation buttons to change the automation behavior of the selected channel. PressShift+ Write and then Playand begin to mix on the knobs and faders in real time with automation.

Read = Set to Read, the channel will respond to existing automation in real time. Any parameters with automation will jump to existing automated values during playback.

Write = All channel parameters record automation during playback

Shift+ Read orWrite = Apply automation mode to all channels

Remember that with Flip, the parameters assigned to the Encoder Knobs can be edited an automated with the faders.

<<<<<<<<< Encoder Knob Assignment>>>>>>>>>

Press one of the Assignment buttons to select the category of parameters currently assigned to the Encoder Knobs. Assignment modes apply controls to the currently selected channel – with a few exceptions.Use Channelup/down to browse pages of options and parameters.Rotate the Encoder Knobs to adjust parameters or make a selection from a list.

Assignment Modes:

Pan = Activates Pan Assignment.Edit standard pan or front/rear panning.

Inserts = Activates Insert Assignment.Open plug-ins and access plug-in parameters.

EQ = Activates EQ Assignment.Opens and editsCubase EQonselected channel.

FX Aux = Activates FX Aux Assignment. Open and edit the Channel Strip Rack.

Instrument = Activates Instrument Assignment.Open and edit plug-in instruments.

SendPage Down = Activates FX Send Assignment.Setup and editFX sends.

Master FX = Activates Master FX Assignment.Setup and editFX sends.

Page Up, *Routing*= Activates Routing Assignment.Setup and editFX sends.

Fader Flip:

Press Flip to access the current Encoder Knob parameters on the touch sensitive motor faders. This is great for precise adjustments of multiple channels/parameters and managing automation.

<<<<< Pan >>>>>

Pan Assignment:(Pan)

Press Pan to adjust stereo panning with the Encoder Knobs on their respective channels. Press Page Up/Down to choose between Left/Right or Front/Rear panning.

Surround Assignment: (Shift+Pan)

Edit multiple surround parameters for the selected channel. Each Encoder Knob is set to a different function depending on the current channel Panner set in Cubase: Stereo Dual Panner, Stereo Combined Panner, Stereo Balanced Panner, or others.

Parameters:

L-R Standard, L-R Panner, Mode

<<<<<Inserts>>>>>

Insert Assignment Mode: (Plug-In)

Press Insertsto open and edit plug-ins on the selected channel. Assign plug-ins on Page 01, and edit on Page 02. PressChannel up/down to browse pages. Plug-In parameters appear on the LCD display and are assigned across the Encoder Knobs.

To quickly insert and edit a plug-in, press Insert, then turn Encoder Knob 3, press Channel down and then edit parameters on all Encoder Knobs.

Page 01

Insert Slot # Insert Bypass SelectPlug-In

Page02+

Insert parameters appear automatically assigned across the Encoder Knobs

<<<<< EQ >>>>>

EQ Assignment Mode: (EQ)

Press EQ to open (or add) theCubase EQ. EQ Assignment Modecan only edit a standard Cubase EQ. Press Flip to control EQwith the faders, and Channel up/down to browse parameters. Edit multiple EQ bands at once for the selected channel.Press a Freq knob to change to adjusting Q and press a Gain knob to toggle bypass.

Band 1 Frequency
Band 2 Frequency
Band 1 Gain
Band 2 Gain
Band 3 Frequency
Band 4 Frequency
Band 3 Gain
Band 4 Gain

Advanced EQ Assignment Mode: (Shift + EQ)

Band 1 Gain
Band 2 Gain
Band 1 Frequency
Band 2 Frequency
Band 3 Gain
Band 4 Gain
Band 3 Frequency
Band 4 Frequency

Band 1 Q-Factor
Band 2 Q-Factor
Band 1 Bypass
Band 2 Bypass
Band 3 Q-Factor
Band 4 Q-Factor
Band 3 Bypass
Band 4 Bypass

<<<<<FX Aux>>>>>

FX Aux Assignment Mode:

In FX Aux Assignment Mode, edit settings forChannel Strip Rack modules. Browse parameters with Channel up/down.

<<<<<Instrument>>>>>

Instrument Assignment Mode:

Press Instrument to open and edit instrument plug-ins on the selected channel. Assign plug-ins on Page 01, and edit on Page 02. PressChannel up/down to browse pages. Plug-In parameters appear on the LCD display and are assigned across the Encoder Knobs.

To quickly load and edit an instrument, press Instrument, then turn Encoder Knob 3, press Channel down and then edit parameters on all Encoder Knobs.

Page 01

Instrument Slot# Instrument Bypass Select Instrument

Page02+

Insert parameters appear automatically assigned across the Encoder Knobs

<<<<< Send >>>>>

FX Send Assignment Mode: (Page Up, *FX Send*)

Use the FX Send Assignment Mode to adjust send amount, bypass, toggle pre/post fader, and set FX channel insert effects.

To quickly create and edit an FX Send, press FX Send, then turn Encoder Knob 3, press Channel down and then edit parameters on all Encoder Knobs.

Page 01

FX Channel # Send Bypass Select Plug-In

Page02+

Insert parameters appear automatically assigned across the Encoder Knobs

Send Focus Mode: (Select a channel - Send - Page Down)

Edit the send parameters of 8 sends at once for the selected channel. Press Channel up/down to browse parameters:

Send Amount
Send Bypass
Send Pre/Post Fader
Send Bus Destination

Send Mixer Mode:(Send - Select a channel - Shift+ Page Down)

Edit advanced parameters with the Encoder Knobs on their respective channels. Repeatedly press Shift+ Page Down to toggle through FX Send 1-8. Each Encoder Knob is set to a different function. Browse parameters with Channel up/down:

Send Amount
Bypass
Pre/Post Fader
Send Panning
Bus Destination
Bypass All Sends

Cue Send Mode: (Shift+ Send)

Access settings for Cue sends with the Encoder Knobs on their respective channels. Press Shift+ Send to toggle through Cue Send 1-8. Browse parameters with Channel up/down:

Send Amount
Bypass
Pre/Post Fader
Send Panning
Bypass All Sends

Cue Send Mixer Mode: (Shift+ Send - Select a channel - Shift+ Page Down)

Edit advanced parameters for multiple channels. Repeatedly press Shift+ Page Down to toggle through FX Send 1-8. Each Encoder Knob is set to a different function. Browse parameters with Channel up/down:

Send Amount
Bypass
Pre/Post Fader
Send Panning
Bus Destination
Bypass All Sends

<<<<<Master FX>>>>>

Master FX Assignment Mode: (Master FX)

Use the Master FX Assignment Mode to edit and adjust effectsloaded in the master insert slots. To quickly create and edit an FX Send, press Send, then turn Encoder Knob 3, press Channel down and then edit parameters on all Encoder Knobs.

Page 01
Master FX Slot # FX Bypass Select Plug-In

Page02+

Insert parameters appear automatically assigned across the Encoder Knobs

<<<<<Routing>>>>>

Routing Assignment Mode: (Page Down, *Routing*)

Edit routing parameters with the Encoder Knobs on their respective channels. Browse parameters with Channel up/down:

Output Bus
Monitor

Input Bus
Input Gain
Input Phase

Direct Routing Assignment Mode: (Shift+ Page Up) *(Nuendo only, not Cubase)*

Edit routing parameters with the Encoder Knobs on their respective channels.Channel up/down to select direct routing slots 1 to 8. Activate a direct routing slot by turning the corresponding Encoder Knob. Enable Summing Mode on parameter page 09/09 (reached with the Channel down button)

<<<<<Utilities>>>>>

Project Utilities:

Left= XYZXYZXYZ
Right= XYZXYZXYZ
Shift+ Left= XYZXYZXYZ
Shift+ Right= XYZXYZXYZ

Undo = Cubase Undo function
Redo= Cubase Redo function
Shift+ Undo = Open Undo History

Save = Save Cubase project
Shift+ Save = Save As: Save project with a new name
Revert= ?????

Marker:
XYZXYZXYZ

Add = XYZXYZXYZ
Prev= XYZXYZXYZ
Next = XYZXYZXYZ
Shift + Add = XYZXYZXYZ
Shift + Prev = XYZXYZXYZ
Shift + Next = XYZXYZXYZ

Punch:

Punch is recording which overwrites existing audio or MIDI within a set punch area.Tap Punch to XYZXYZXYZXYZXYZXYZ. This is a key workflow tool because of the time saved by combining channeling and major edits. Without punch, subsequent takes must be individually edited into the final channels. Using Punchkeeps a production moving forward, which boosts creativity and productivity.

Function Buttons:

The Function buttons, labeled F1 through F8, are to be assigned custom user commands in Cubase -> Device Setup.

Recommended custom user commands:

F1 = Click On/Off
F2 = MagicA
F3 = MagicA
F4 = MagicA
F5 = MagicA
F6 = MagicA
F7 = MagicA
F8 = MagicA

Shift + F1 = MagicA
Shift + F2 = MagicA
Shift + F3 = MagicA
Shift + F4 = MagicA
Shift + F5 = MagicA
Shift + F6 = MagicA
Shift + F7 = MagicA
Shift + F8 = MagicA

Channel Visibility Modes: *(default Platform B+ only)*

Shift + Visibility Modes 1 to 8 view fixed preset channel types. Buttons 1 to 8 alone recall custom channel visibility configurations previously setup in the MixConsole.

Visibility Modes:
Shift + 1 = All Channels
Shift + 2 = Audio Channels
Shift + 3 = Groups
Shift + 4 = FX Channels
Shift + 5 = Instrument Channels
Shift + 6 = MIDI Channels
Shift + 7 = I/O Busses
Shift + 8 = All Channels

Example user visibility modes:

1 = Project channels 1-8
2 = Project channels 9-16
3 = Project channels 17-24
4 = Project channels 25-32
5 = Project channels 33-40
6 = Project channels 41-48
7 = Project channels 49-56
8= Project channels 57-64

External Controls:

On the units QCon Pro X, QCon Pro G2, and QCon Pro, connect a standard momentary foot switch to User A or User B, and then power on the Icon control surface.

User A = Toggle Play/Stop

<<<<<<<<< Troubleshooting >>>>>>>>>

Strange behavior in the DAW, unexpected functions, device not recognized, orfreezes:

Disconnect all MIDI-USB devices. In Cubase, delete all control surface configurations(including other MIDI devices) in Controller Assignments and Control Surface Setupand then close Cubase. For testing, connect directly to the computer without a USB hub or USB extension cable. Turn on the Icon control surface and select the MCP Cubase mode.

OSX – Go to Audio-MIDI-Setup, open MIDI Studio, and delete unused configurations and Icon devices. Restart the Icon control surface to automatically reconfigure.

Windows –Open the Device Manager in Windows, select the Icon Control Surface, and delete the device.Now restart the control surface to automaticallyreconfigure. If there remain issues related to the USB connection, a Windows update can repairsome issues.

Windows – If the device does not appear in the Windows Control Panel, you may need to uninstall MIDI devices - you will need a third party utility application to do this easily. Windows has limits on MIDI devices successfully installed in total, and MIDI devices remain installed when disconnected.

Finally, start Cubase and configure the control surface in Devices -> Device Setup. Press “+” and select Mackie Control. Select your device for both Output and Input Port, displayed under “Device: Mackie Control”

Faders are not motorized:

The power source is not connected. Verify the power source by disconnecting USB and turning the control surface on. If power is well connected, it will start up normally.

Faders makenoise or move improperly:

A fader calibration is needed. Please read the section on Fader Calibration below for details.

I want to control and automate certain parameters:

Access parameters via the Assignment Modes and use Automation Modesto begin creating live automation. Press Flipto control these parameters with the faders. UseMIDI Learnto additionally assign parameters or key commands to controls.

I want to change the behavior of a function:

Icon control surfaces with MCP offer deep and complex control options, just please remember that the control surface only sends/receives MIDI messages. The functionality happens in your DAW. The style and components of a function is fixed based on the DAW MCP implementation, and can’t be changed unless specifically otherwise stated. The behavior is different in every DAW and can change with DAW version updates.

I want to see customvalues on the display:

The messages and values on the display are generated from values sent by the DAW as return MIDI. Display readouts in return MIDI are controlled by the MCP implementation in your DAW, so they are not customizable unless specifically otherwise stated. The rate at which the screen updates certain parameters is controlled by the frequency of the corresponding MIDI messages in the DAW. These update rates have changed with various Cubase updates.

I want to adda custom function:

To alter and customize controls beyond standard MCP, please review the DAW developer support on customizing controller assignments in expert view. In Cubase, it is possible to assign Key Commands (instead of MCP functions) to MIDI Input generated from buttons on Icon control surfaces. In the typical style of MCP implementation, device-specific MIDI input used by the DAW for MCP is blocked from other uses.

I want to rescale the faders:

The fader volume curve, zero dB position and value range are preset in the DAW implementation of MCP, and can't be adjusted. There is variance between different DAWs.

I want to change the Jog Wheel resolution:

The behavior of the Jog Wheel is preset in the DAW implementation of MCP. There is variance between different DAWs. There may be some adjustment for this, at least by changing grid settings. Pressing Scrub enables fine movement with the Jog Wheel.

<<<<<<<<< Firmware Update>>>>>>>>>

To accommodate future changes to MCP implementation in new DAW versions plus expand on operational features, Icon provides Firmware updates for current production and legacy control surfaces.

Caution:

Please take extra care to follow the correct procedure when performing a firmware update. When performing a firmware upgrade, always connect directly to the computer without a USB Hub or extension, and only connect one device to the computer during update. Also quit all other software which can access MIDI input/output such as your DAW or utility programs.

Verify the power source is well connected to the control surface. You can check by starting the controller with no USB cable connected. If thedevice startup proceeds normally, external power appears to be ok.

To Update:

OSX – Install and open the device-specificiMap, use "Connect" to select your device, click Update and follow the directions on screen.(For an XS or EX unit, first switch iMap mode by clicking the QCon icon in iMap)

Windows / Legacy – Install and open the device-specific iMap, use "MIDI Devices" to select your device, click Update. Newer iMap releases automatically download the correct firmware online.

!After Firmware Update, reinstall the device in your DAW by deleting the previous device configuration and repeating the MCP device setup.

!Never attempt to "downgrade" firmware of an Icon control surface.

! Only use the iMap and Firmware versions specific for your hardware version. Also be sure to get the newest iMap on the Icon Pro Audio website.

! Never unpack a .bin firmware file

<<<<<<<<<Fader Calibration – QCon Series>>>>>>>>>

We recommend that every QCon owner performs a fader calibration. The best values vary according to the DAW of choice and preference. In the digital domain (in your DAW) valuescan move from 0 to 100 in an instant, but physical faders need to actually travel from point A to point B. Fader Calibration allows fine adjustment to the properties of how each motor fader responds when commanded to move.

Press and hold the Rec Button on channel two and start the device. Fader Calibration will display. Turn each Encoder Knob to fine tune the value for each channel. A higher value results in smoother, quieter response. A lower value results in faster movement speed. Each fader can be fine tuned individually. To adjust the master fader, use the channel select buttons 7 and 8. To save the new changes and exit, press Encoder Knob 8.

For Cubase 10, start with values set at 165, evaluate, then adjust individually to personal preference.

<<<<<<<<<Fader Calibration – Platform (v2.00 and up)>>>>>>>>>

We recommend that every Platform owner performs a fader calibration. The best adjustment varies according to the DAW of choice and preference. In the digital domain (in your DAW) valuescan move from 0 to 100 in an instant, but physical faders need to actually travel from point A to point B. Fader Calibration allows adjustment to the properties of how the motor faders respond when commanded to move.

Press and hold the Encoder Knob on channel one and start the device. Turn Encoder Knob 8 to adjust the total fader response. It is also possible to adjust a single fader by now holding down Rec on channel three while adjusting the encoder of each channel. A higher value results in smoother, quieter response. A lower value results in faster movement speed. To save the new changes and exit, press Encoder Knob 8.

I recommend starting with a slower movement, test in your DAW and evaluate, then adjust individually to personal preference.

Control Surface Functionality Manual

Logic Pro X

QCon Pro X, QCon Pro XS, QCon Pro G2, QCon EX G2 Platform M+, Platform B+, Platform D2, Platform X+, Platform Nano

Revision v1.13

This is a master manual. Specific device manuals can be built from this material.

Congratulations on owning an Icon control surface! This manual documents the full range of potential functions when the device is installed in Logic Pro X.

You can extensively control Logic Pro X with an Icon QCon seriescontrol surface or Icon Platform modular control system using standard MackieControl protocol. Expansion bank units can be addedfor more hands-on controls:QCon expansion units for the QCon series and the Platform X+ channel bank expansion. Platform B+ button module is necessary toaccess all functions in this manual with Platform M+, and the D2 display highly recommended.Icon Metal Fader Caps and Icon Metal Knob Caps are available as an aesthetic and haptic upgrade for the best control experience.

The term Mackie Control is used to refer to the control protocol standardto be used withthe QCon and Platform series control surfaces, and is abbreviated as MCP. Logic and its terminology belongs to Apple and has no affiliation with Icon Pro Audio

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<<<<<Color Reference Key>>>>>

Control Surface Function

Control Surface Button

DAW Term

ButtonA + ButtonB =hold Button A and press Button B

Button A - Button B = press Button A and then press Button B

<<<<<<<<< Setup>>>>>>>>>

Before you can use your control surface, you will first need to configure it in Logic Pro X.Once setup,Logic Pro X will remember your settings for future sessions without the need to reconfigure. For maximum stability, first boot the control surface and select the DAW Mode, then start your DAW software.

When the control surface is switched on, it will first prompt for a DAW Mode selection. Select the corresponding mode with the illuminated navigation buttons and confirm selection with the highlighted DAW mode button. On Platform M+, the small channel indicator will light to show the currently selected DAW Mode. If no buttons are pressed, the control surface will select the previously used mode after a few seconds.

In the latest device Firmware version (may require Firmware update):

1: MCP General **2: Logic Pro** 3: Pro Tools HUI 4: User Defined

In Logic Pro X, advanced configuration needs to be enabled. Open Logic Pro X -> Preferences -> General -> Advanced, select Show Advanced Tools, and verify that all additional options are checked. (Audio, Surround, MIDI, Score, Control Surface, Advanced Edit)

To configure your Icon control surface, go to Logic Pro X -> Control Surfaces -> Setup. Delete previous Mackie Control configurations, then go to New -> Install, select Mackie Control, and click Add. Finally choose your device name for both the Output Port and Input Port, displayed under “Device: Mackie Control”.

Repeat this process for any expansion modules, then click and drag the console graphics left/right to match the physical configuration of your control surface fader banks. You can now use your Icon control surface for transport, mix, and extended control functions. Next up: An overview ofthe fundamental elements for controlling Logic Pro X.



<<<<<<<<< Getting Started >>>>>>>>>

When first opening a blank project in Logic Pro X, we are looking at the Arrange Window. Add tracks to your project here, and you will see the motor faders jump into position. Each Icon control surface has one physical bank consisting of 8 channel strip controls. Each channel strip corresponds to controls for one track in your DAW. The track name appears on the display above each channel.Touch a fader and adjust the track's volume. Change a channel's volume in Logic Pro X and the corresponding motor fader will adjust itself. You can balance the volume of multiple faders on the control surface simultaneously – already a huge mixing advantage of using a control surface. Press the Bank up / down buttons to scroll through further channels in the project in fixed blocks of 8.The Channel up / down buttons stepthe focus of the current bankone channel at a time.

The 9th fader on your control surface is the Master Faderand always commands the master level, which engages after the output stage of the project, so after any plugins used on the output sum.This is advantageous for several classic mixing techniques and effectively regulates your monitor volume.

The Encoder Knobs edit parameters according to the current Assignment Mode. Turn them to edit a parameter or change a selection.Each knob affects the track on that channel strip, or in advanced encoder modes, allknobs affect the currently selected track. Press the knob to reset to the default value, or confirm a selection depending on the Assignment Mode.



<<<<<<<<<Mix and Transport>>>>>>>>>

Jog Wheel:

Turn the Jog Wheel to quickly adjust the playhead position on the grid, visible in the Arrange Window in Logic Pro X.

Scrub= Toggle Scrub: appliesto the Jog Wheel
Shift + Scrub = Toggle Shuttle: turn the Jog Wheel to adjust playback speed
Play - Scrub = Pause playback

There are options in Logic Pro X for scrubbing:
Preferences -> Audio -> Editing
To enable audio scrub in Logic Pro X, select “Scrubbing with audio…”
(On Platform M+, scrub is activated by pressing down the jog wheel.)

Transport:

The Transportsection is used to operate playback.

Play = Begin playback
Stop = Stop playback

Rec (transport) = Begin recording Audio and MIDI input
FastForward= Shuttle forward. Press again to increase forward speed
Rewind =Shuttle reverse. Press again to increase backward speed

Stop - Stop = Playhead jumps to beat 1 bar 1 or active cycle position
Play - Play = Playhead jumps back to the nearest bar or active cycle position
Shift +Play = Pause playback

Channel Strip Buttons:

Rec(channel) = Arms the channel strip for recording
Solo = Engage Solofor one or multiple tracks
Mute = Engage Mute for one or multiple tracks
Select = Focuses and selects the track, displays the full track name on the LCD display
Shift + Select = Set the channel volume fader to 0 dB
Option + Select =Add Slave Track: Extra track with shared channel strip – for tracking/editing
Shift + Option + Select = Createnew track (Uses track type of selected track)

Option + Rec (channel strip) = Arm/disarm all channel strips
Option + Solo (channel strip) =Toggle Solo Scenefor all channel strips:
(Press once to disable Solo, press again to restore all previously soloed tracks)
Option + Mute = DisableMute for all channel strips

Cycle:

The Cyclebuttontoggles the playback loop cycle on/off. Hold Cycleand turn the Jog Wheel to quickly define the cycle area. Hold Cycle and turn the Jog Wheel backwards to define a skip area.0

Cycle+ Rewind = Set cycle start to the playhead position
Cycle+ FastForward= Set cycle end to the playhead position

PressShift+Cycleto display the cycle edit menu. The Encoder Knobs adjust the cycle area:

Press Encoder Knob 2 = Set cycle area to selected regions in Arrange Window
Turn Encoder Knob 3 = Move the cycle area by bar
Press Encoder Knob 5 = Set cycle start to the playhead position
Turn Encoder Knob 5 = Move cycle start in bars
Turn Encoder Knob 6 = Move cycle start in beats
Press Encoder Knob 7 = Set cycle end to the playhead position
Turn Encoder Knob 7 = Move cycle end in bars
Turn Encoder Knob 8 = Move cycle end in beats

Fader Lock:

Press Lock Mix to disable touch sensitive changes to fader position. Automation remains active. This is useful to secure a finished mix.

Press Control + Flip to set all faders to zero and disable all motor fader movement. This is useful to silence the control surface. *(Platform B+ only)*

<<<<<<<<< Group>>>>>>>>>

Press Group to manage group membership. Press the channel Select buttons to add tracks to the selectedgroup. Illuminated Select buttons indicate group membership for the selected group. The up/down Cursor Arrows change the currently selected group.

The left/right Cursor Arrows browse the group parameters assigned to the Encoder Knobs. Toggle whether these parameters are linked to thegroup using the knobs:

Group Active, Editing (Selection), Automation, Volume, Pan, Mute, Solo, Input, Record Arm, Send 1-8, Color, Track Zoom, Hide, Phase-Locked Audio (Quantization), Track Alternatives

Hold Control to make mix changes bypassing group settings.*(default Platform B+ only)*

<<<<<<<<<View>>>>>>>>>

Displays:

The LCD display shows tracknames and parameters, plus navigation forAssignment Modes and settings. Press the Name/Value button to toggleparameter titleson the LCDdisplay.

Thedigitaltime displayshows the current playhead position, either in bars and beats or in SMPTE time code format. Press SMPTE/Beatstotoggle readoutformats on the time display.

Function Buttons:

The Function buttons, labeled F1 through F8, recall user defined Screensets1 through 8. To setup a useful example, press F1 and then open the Arrange Windowin Logic Pro X. Now press F2 and open the Mixer Window. Now you can switch between these views with F1 and F2.Window configurations plus the view options for each Screenset are saved with the Logic Pro X project. It is advisable to save useful Screensetsinto your template projects.

Recommended Screensets for a studio with two display monitors:
F1 = Primary display:Arrange Window, Secondary display: Mixer Window
F2 = Primary display:Mixer Window, Secondary display: Arrange Window
F3 = Primary display:Audio Editor Window, Secondary display: Arrange Window
F4 = Primary display:Score Editor, Secondary display: Arrange Window
F5= Primary display:Piano Roll, Secondary display: Arrange Window
F6= Primary display: Arrange Window, Secondary display: Piano Roll
F7= Primary display:Arrange Window (alternate settings), Secondary display: Mixer Window
F8= Primary display:Arrange Window, Secondary display: Tempo ListEditor

Open Windows:

Shift + F1 = Open Arrange Window
Shift + F2 = Open Mixer Window
Shift + F3 = Open Event Editor
Shift + F4 = Open Score Editor
Shift + F5 = Open Step Editor
Shift + F6 = Open Piano Roll

Shift + F7 = Open Transport Window
Shift + F8 = Open List Editors

Zoom &Cursor Arrows:

The Cursor Arrows (left, right, up, down) change selections or modify zoom in the ArrangeWindow. In Assignment Modes they change theEncoder Knob parameter selection and scroll through pages of parameters when editing plug-ins.

Press Zoom to activate zoom controls using the Cursor Arrows. Zoom controls only work in the Arrange Window. When the Zoom button is illuminated, press Option + Cursor Arrows to adjust individual track zoom.

In the Arrange Window, the up/down Cursor Arrows select the previous/next channel.
In the Mixer Window, the left/right Cursor Arrows select the previous/next channel.
(On Platform M+, Zoom is managed by toggling the Zoom buttons and turning the jog wheel.)

Channel Bank Options:

Bank up/down = Scroll through tracks in the project in fixed blocks of 8
Channel up/down = Step the current bank by onetrack
Option +Bank up/down = Scroll bank to first or last track
Option +Channel up/down = Scrollbank to first or last track

If expansion units are connected, bank left/right scroll by the total number of fader banks.

Global View:

While in the Mixer Window, press Global View. Now use the Function buttons to display channel strips in the project by category. Hold multiple Function buttons to display multiple types of channel strips. Press Global View to restore normal view.This is useful for mixing or editing large sessions, for example projects with complex signal routing or advanced MIDI setups.

F1 = Midi Tracks
F2 = Inputs
F3 = Audio Tracks
F4 = Instrument Plug-ins
F5 = Aux
F6 = Bus
F7 = Outputs

<<<<<<<<< Encoder Knob Assignment>>>>>>>>>

Press one of the Assignment buttons to select the category of parameters currently assigned to the Encoder Knobs. Use the Cursor Arrows left/right to select a parameter and up/down to navigate the channel strip position. When the Encoder Knobs make a selection from a list, such as plug-in or send destination, press the encoder to confirm the selection.

Assignment Modes:

Track = Activates Track Assignment, view and edit one selected parameter:
Volume, Pan, Format, Input, Output, Automation, Group, Custom (Automation Parameter)

Pan = Activates Pan Assignment, edit stereo pan, or surround panning parameters
Surround Channels: Angle, Diversity, LFE Level, Spread

EQ = Activates EQ Assignment, opens and editsLogic Channel EQonselected channel
Parameters: Frequency, Gain, Q-Factor, Band Bypass
Cursor Arrows up/down select EQ Band

Send = Activates Send Assignment, adjust bus send levels and routing parameters:
Send Destination, Send Level, Pre/Post, Bypass

Plug-in = Activates Plug-in Assignment, open plug-ins and access plug-in parameters

Instrument = Activates Instrument Assignment, open and control instrument plug-ins

Fader Flip:
Press Flip to access the current Encoder Knob parameters on the touch sensitive motor faders. This is great for precise adjustments of multiple channels/parameters and managing automation.
Press Shift+ Flipto swap encoder assignments with the fader assignments.

Cmd+ turnEncoder Knob=Fine parameter adjustment*(only high resolution parameters)*
Option + turn Encoder Knob= Toggle min, max, default value
Cmd+ Cursor Arrows left/right = Browse pages by single parameters
Option + Cursor Arrows = Skip to first/last selection

<<<<<<<<<Automation>>>>>>>>>>

Ease creating and managing automation is a highlight of using a control surface with motor faders. Press the Automation buttons to change the automation behavior of the selected channel. Press Play and begin to mix on the knobs and faders in real time with automation. Begin adopting automation into your workflow starting with Touch automation.

Option + Read Write, Touch, or Latch =Apply automation mode to all tracks

Main Automation Modes:

Read = Toggle between Read and Off:
Set to Read, the channel will respond to existing automation in real time. Any parameters with automation will jump to existing automated values during playback.
Set to Off, the channel will ignore all automation.

Write = All channel parameters record automation during playback. This overrides and replaces all automation. This is for tracking an unassisted mixdown performance.

Touch = The channel reads existing automation, plus writes automation for specific parameters adjusted during playback. This only creates automation while parameters are being edited.

Latch = Reads existing automation, plus writes automation for specific parameters adjusted during playback. This continues to write automation for any parameters which have been changed during

playback.

Trim Automation:

Trim = Toggle Trim behavior on a channel armed with Touch or Latch automation. When active, Trim allows automation to be modified instead of overwritten. Adjusting knobs and faders during playback will make a change relative to existing automation.

Touch + Trim = T-Touch: Adjust automation momentarily while parameters are being edited
Latch + Trim = T-Latch: Adjust automation continuously by changing a parameter

<<<<<<<<< Advanced Encoder Assignment Modes>>>>>>>>>

Every Assignment Modehas multiple modes of control. Theseare specialized control modes advantageous for specific tasks andproject styles.

<<<<<<<<< Track>>>>>>>>>

Track Assignment Shortcuts:

Hold Trackto display the shortcut menu. Here you can select which parameter will appear on the LCD displayand can be edited by the Encoder Knobs in Track Assignment Mode.

Encoder Knob 1 or F1= Volume
Encoder Knob 2 or F2= Pan
Encoder Knob 3 or F3= Input format(Mono, Stereo, L/R, Surround)
Encoder Knob 4 or F4= Input assignment
Encoder Knob 5 or F5= Output assignment
Encoder Knob 6 or F6= Automation mode
Encoder Knob 7 or F7= Custom(Select a channel automation parameter in Logic Pro X)
Encoder Knob 8 or F8= Activates Setup Focus Mode
Track + Group =Group Assignment

Track Focus Mode: (Track- Track)

Press Tracktwice. This allows you to edit multiple channel strip parameters for the selected channel. Parameters appear across the LCD display andeach Encoder Knobis set to a different function. Press a channel Select button to choose that track to edit.

Encoder Knob 1 = Volume
Encoder Knob 2 = Pan
Encoder Knob 3 = Software Instrument
Encoder Knob 4 = Edit Plug-In on slot 1. Press Shift + Mute 4 to toggle bypass.
Encoder Knob 5 = Edit Plug-In on slot 2. Press Shift + Mute 5 to toggle bypass.
Encoder Knob 6 = Level of Send 1. Press Shift + Mute 6 to toggle bypass.
Encoder Knob 7 = Level of Send 2. Press Shift + Mute 7 to toggle bypass.
Encoder Knob 8 = Level of Send 1. Press Shift + Mute 8 to toggle bypass.

Setup Focus Mode:(Track+F8)

Encoder Knob 1 = Channel strip format (Mono, Stereo, L/R, Surround)
Encoder Knob 2 = Spread parameter (Surround channels only)
Encoder Knob 3 = Channel strip input assignment
Encoder Knob 4 = Channel strip output assignment
Encoder Knob 5 = Automation mode
Encoder Knob 6 = Quick-edit group membership. ChooseGroup1 to 32 or Off

<<<<<<<<< Pan>>>>>>>>>

Pan Assignment Shortcuts:

Hold Pan to display the shortcut menu. Here you can select which parameter will appear on the LCD display and can be edited by the Encoder Knobs in Pan Assignment Mode.

Encoder Knob 1 or F1 = Angle
Encoder Knob 2 or F2 = Diversity
Encoder Knob 3 or F3 = LFE Level
Encoder Knob 4 or F4 = Spread
Encoder Knob 5 or F5 = -
Encoder Knob 6 or F6 = ActivatesSurround Focus Mode
Encoder Knob 7 or F7 = Activates Angle/DiversityMixer Mode
Encoder Knob 8 or F8 = Activates X/Y Mixer Mode

Surround Focus Mode: (Pan - Pan)

Press Pan twice to enter Surround Focus Mode, and edit multiple surround parameters for the selected channel. Each Encoder Knob is set to a different function. Stereo channels are always assigned the parameter Pan.

Encoder Knob 1 = Angle
Encoder Knob 2 = Diversity
Encoder Knob 3 = LFE Level
Encoder Knob 4 = Spread
Encoder Knob 5 = Surround X
Encoder Knob 6 = Surround Y

Angle/Diversity Mixer Mode:(Pan + F7)

Create dramatic polar-style surround panning for many tracks at once. This style of surround control is best for creating deep immersive surround and automating smooth circular movements. Turning anEncoder Knob changes the surround angle, and the Fadersedit surround diversity.

Angle and Diversity work together to set the virtual position of a sound. Angle is the position of the sound source relative to the listener in 360 degrees. Diversity is like the distance of the source from the listener, where lower values are farther away.

X/Y Mixer Mode:(Pan + F8)

Create dramatic grid-style surround for many tracks at once. This style of surround control is best for placing sounds on a virtual stage, or for automating sound objects that will move on mostly linear paths relative to the listener. Turning anEncoder Knob changes the surround X value, and the Faders edit surround Y.

The X/Y parameters are like the coordinates of a sound source relative to the listener, where 0, 0 is centered and coordinates can be set between +/-1000on the grid.

<<<<<EQ>>>>>

EQ Assignment Mode:(EQ)

Press EQ to open (or add) theLogic Channel EQ. EQ Assignment Modecan only edit a standard Logic Channel EQ or Logic Linear Phase EQ. Press Shift+Muteto toggle EQ band bypass.Press Flip to control EQwith the faders and toggle band bypass with Mute.

EQ Assignment Shortcuts:

HoldEQto display the shortcut menu. Here you can select which parameter will appear on the LCD display and can be edited by the Encoder Knobs in EQ Assignment Mode.

Encoder Knob 1 or F1 = Frequency
Encoder Knob 2 or F2 = Gain
Encoder Knob 3 or F3 = Q-Factor
Encoder Knob 4 or F4 = Band Bypass
Encoder Knob 5 or F5 = --
Encoder Knob 6 or F6 = Activates EQ Focus Mode
Encoder Knob 7 or F7 = Activates Freq/Gain Mixer Mode
Encoder Knob 8 or F8 = Activates Freq/Gain Channel Mode

EQ Focus Mode:(EQ- EQ)

Press EQa second time to open the Logic Channel EQand editmultiple EQ parametersfor the selected channel. The left/right Cursor Arrows browse pages of EQ bands.

Encoder Knob 1 = Band 1 Frequency
Encoder Knob 2 = Band 1 Gain
Encoder Knob 3 = Band 1 Q-Factor
Encoder Knob 4 = Band 1 Bypass
Encoder Knob 5 = Band 2 Frequency
Encoder Knob 6 = Band 2 Gain
Encoder Knob 7 = Band 2 Q-Factor
Encoder Knob 8 = Band 2 Bypass

Freq/Gain Mixer Mode:(EQ+ F7)

This is the place to efficiently manage frequency separation between instruments for a mixdown. After the rough mix, use this mode to quickly assign tracks appropriate real estate on the sonic stage. The LCDdisplay shows channel strip names andfrequency of the selected EQ band. The Encoder Knobschange the EQ frequency, and the faders adjust EQ Gain.Mute toggles bypass of the selected EQ band. Cursor Arrows up/down select the EQ band.

Freq/Gain Focus Mode:(EQ+ F8)

Edit frequency and gain for all 8 EQ bands on the selected channel strip. This offers very quick access to powerfully adjust the frequency content of a track, optimal for rough mix. Turning anEncoder Knob changes the EQ frequency, and the faders adjust EQ Gain. Each channel Mute toggles bypass of its EQ band. Press channel Select to edit the EQ on that track.

<<<<<**Send**>>>>>

Send Assignment Mode:(Send)

Use the Send Assignment Mode to set send destinations and adjust send amounts for the selected channel.Cursor Arrows up/down change the selected send slot number.Cursor Arrows left/right select a parameter.Press Shift+Mute to toggle send bypass. Press Flip to control the selected parameters on the faders, and while Flip is engaged, pressMute to toggle send bypass. Press Solo (channel) to toggle send Pre/Post.

Send Focus Mode:(Send- Send)

Press Sendtwice to enter Send Focus Mode, and edit multiple parameters for the selected channel. Each Encoder Knob is set to a different function. The left/right Cursor Arrows browse pages of send slots. The first page displays send slot 1 & 2, page 2 displays send slot 3 & 4, and so on.

Send 1:
Encoder Knob 1 = Select send destination
Encoder Knob 2 = Adjust send amount
Encoder Knob 3 = Set send pre/post fader
Encoder Knob 4 = Toggle send bypass

Send 2:
Encoder Knob 5 = Select send destination
Encoder Knob 6 = Adjust send amount
Encoder Knob 7 = Set send pre/post fader
Encoder Knob 8 = Toggle send bypass

Send Assignment Shortcuts:

Hold Send to display the shortcut menu.Here you can select which parameter will appear on the LCD display and can be edited by the Encoder Knobs in Send Assignment Mode.

Encoder Knob 1 or F1 = Send destination
Encoder Knob 2 or F2 = Send amount
Encoder Knob 3 or F3 = Send pre/post fader
Encoder Knob 4 or F4 = Toggle sendbypass
Encoder Knob 5 or F5 = ActivatesSend Focus Mode
Encoder Knob 6 or F6 = Activates Multiple SendFocus Mode
Encoder Knob 7 or F7 = Activates Destination/Level Mixer Mode
Encoder Knob 8 or F8 = Activates Destination/Level Focus Mode

Multiple Send Focus Mode:(Send+ F6)

This mode is forintegrating complex bus routing during the rough mix or production, adjusting bothvolume balance and complex sends at once.

Encoder Knobs 1 to 8 edit the selected send parameter for sends 1 to 8 on the selected track.The left/right Cursor Arrows change the selected parameter:

Send Destination, Send Level, Pre/Post, Bypass

In an analog/digital hybrid setup making use of I/O Utilityon busses, manage signals to outboard gear without touching manual routing. Once prepared, turn a knob on the control surface to send a track through your outboard gear. The template tracks using hardware would be set to no output, only reaching output through bus sends.This requires rendering the final mix through the hardware: Logic Pro X -> Bounce -> Mode:select“Realtime”

Example: Tracks have no output and have sends ready with Bus 10 – 12 assigned.
Bus 10 = Dry output to digital sum
Bus 11 = I/O plugin (with latency offset) to hardware 1, DAW output 1-2
Bus 12 = I/O plugin (with latency offset) to hardware 2, DAW output 1-2

Destination/Level Mixer Mode:(Send+ F7)

Use this mode to mix send amount and select busses for multiple tracks. With prepared effect busses,this is the place to create an entire effects mix for mixdown.

TheEncoder Knobsselect a send destination, and the faders adjust the send amount. Mute toggles send bypass, and Solo toggles pre/post. Cursor Arrows up/down select the send slot.

Destination/Level Focus Mode:(Send+ F8)

Use this mode to mix the bus effects balance for single complex tracks. This is the optimal tool for making a deep effects mix on prominent tracks such as main vocals and lead sounds. With this mode plus automation, you can use the faders to paint with an artistic pallet of 8 effects to create color, size, dynamics, and complexity. Edit send destination and send level for 8 send slots on the selected channel strip. The Encoder Knobsselect a send destination, and the faders adjust the send amount. Each channel Mute toggles send bypass. Press channel Solo to toggle pre/post.

<<<<<**Plug-In**>>>>>

Plug-In Assignment Mode:(Plug-In)

Press Plug-In to open and edit plug-ins on any track. To quickly edit an existing plug-in, press the Encoder Knob to the corresponding plug-in namevisible on the LCD display. Plug-In parameters appear on the LCD display and are assigned across the Encoder Knobs. Press Cursor Arrowsleft/right to view and edit further pages of parameters. Press Plug-In to exit. Press Shift + Muteto bypass the plug-in. Turn an Encoder Knob to select a plug-in and press to confirm and edit. The up/downCursor Arrows change the selected slot number.

Plug-InFocusMode: (Plug-In -Plug-In)

Press Plug-In again to view and edit plug-ins in the first 8 slots of the selected track. Press Shift + Muteto bypass a plug-in. Turn and press an Encoder Knob to select a plug-in for the corresponding slot number. Adjust parameters with the knobs and use the left/right Cursor Arrows to view and edit further pages of parameters.

<<<<<Instrument>>>>>

Instrument Assignment Mode:

Press Instrumentto open and edit instrument plug-ins on MIDI software instrument tracks. Turn and press an Encoder Knob to select an instrument. Parameters appear across the LCD display and can be edited with the Encoder Knobs. Use the left/right Cursor Arrows to view and edit further pages of parameters. Press Plug-In to exit. Press Shift + Muteto bypass the plug-in.

<<<<<User Assignments>>>>>

MIDI Learnis to be used on the Encoder KnobswhileUser Assignments are activated. After parameter assignment, press Flip to adjust and automate with the motor faders. Any automatable parameter can be mapped to the control surface using MIDI Learn in Logic Pro X. Fiveindividual User Assignmentsetups can be used for unique sets ofMIDI Learn assignments.

Shift +Track= User Assignments 1
Shift +Pan = User Assignments 2
Shift +EQ = User Assignments 3
Shift +Send = User Assignments 4
Shift +Plug-in = User Assignments 5
Shift +Instrument = Smart Controls

To create an assignment in one of the User Modes, useMIDI Learn in Logic Pro X to map parameters to the Encoder Knobs:

1. Enter a User Assignment mode –the LCD display is blank
2. Move the parameter you want to assign with the mouse in Logic Pro X
3. Press the keyboard shortcut “Command + L”, the Controller Assignments Window appears.
4. Turnthe Encoder Knob to assign.
5. Move the next parameter with the mouse in Logic Pro X.
6. Turn the next Encoder Knob to assign.
7. Click the Learn button in the Controller Assignments Window to finish. Now the User Assignment can be used and recalled later.

Parameter names and values set with MIDI Learn in User Assignments appear on the LCD display.Press Flip to access these custom parameters on the faders.This way the motor faders will also follow automation.

<<<<<Advanced Utilities>>>>>

The Utilities buttons access additional workflow operations, and many button combinations access extended functionality and options.

Click:

Click = Activate/deactivate metronome click (separate for playback and record)
Shift + Click = Activate/deactivate external sync and the transmission of MMC
(MMC is for controlling compatible tape machines from the DAW)

The metronome click is a tempo reference for production and recording.
There are options and settings in Logic Pro X for the click:
File ->Project Settings -> Metronome

Solo:

Solo (transport) = Activate Solo Regions: selected regions in the Arrange Window are solo
Shift + Solo = SetSolo Lock: selected regions solo, regardless of subsequent selections

Solo Regions is a useful evaluation tool for production, plus aids in audio editing. This allows efficient techniques exclusive to a digital setup. Use the Solo (channel) buttons to solo by track in the more traditional method.

Marker:

UseMarker to manage markers in the Arrange Window. Press Marker +Nudge to create a marker at the playhead. Use Rewind or FastForwardto move the playhead and the cycle to the previous/ next existing marker.
Press Shift + Marker to displaythe marker menu, or just hold Marker. The Encoder Knobs have the following commands:

Encoder Knob 1 = Jump to marker 1
Encoder Knob 2 = Jump to marker 2
Encoder Knob 3 = Jump to marker 3
Encoder Knob 4 = Jump to marker 4
Encoder Knob 5 = Jump to marker 5
Encoder Knob 6 = Create marker at the playhead
Encoder Knob 7 = Create marker at the nearest bar
Encoder Knob 8 = Deletes marker at the playhead

Markershortcuts:

Marker+ F1 = Jump to marker 1
Marker+ F2 = Jump to marker 2
Marker+ F3 = Jump to marker 3
Marker+ F4 = Jump to marker 4
Marker+ F5 = Jump to marker 5
Marker+ F6= Jump to marker 6
Marker+ F7= Jump to marker 7
Marker+ F8= Jump to marker 8

Nudge:

Press Nudge to move audio or MIDI regions and events. With nudgeactive, the left/right Cursor Arrowsselect regions. Press Rewind or FastForwardto nudge the selected region. Use nudge to adjust timing, or select multiple regions and organize the arrangement.

Press Shift +Nudge to displaythe nudge menu, or just hold Nudge. Each Encoder Knob has a different nudge command for the selected region:

Encoder Knob 1 = Set nudge amount forRewind and FastForward
Encoder Knob 2 = Move to the playhead
Encoder Knob 3 = Move by bar
Encoder Knob 4 = Move by beat
Encoder Knob 5 = Move by divisions
Encoder Knob 6 = Move by ticks
Encoder Knob 7 = Move by 1 frame
Encoder Knob 8 = Move by ½ frame

Nudge settings for Rewind and FastForward:

Nudge + F1 = Ticks
Nudge + F2 = Divisions
Nudge + F3 = Beats
Nudge + F4 = Bars
Nudge + F5 = Frames
Nudge + F6 = Half Frames

Drop – Autopunch:

Drop toggles Autopunch. Autopunch is recording which overwrites existing audio or MIDI within a set punch area. This is a key workflow tool because of the time saved by combining tracking and major edits. Without Autopunch, subsequent takes must be individually edited into the final tracks. Using Drop keeps a production moving forward, which boosts creativity and productivity.

Hold Drop and turn the Jog Wheel to quickly define the punch area.

Drop + Rewind = Set punch-in location to the playhead position
Drop + FastForward= Set punch-out location to the playhead position

PressShift+Drop to display the punch edit menu. The Encoder Knobs adjust the punch area:

Turn Encoder Knob 3 = Move the selected punch area by bar
Press Encoder Knob 5 = Set punch-in locator to the playhead position
Turn Encoder Knob 5 = Move punch-in locator in bars
Turn Encoder Knob 6 = Move punch-in locator in beats
Press Encoder Knob 7 = Set punch-out locator to the playhead position
Turn Encoder Knob 7 = Move punch-out locator in bars
Turn Encoder Knob 8 = Move punch-out locator in beats

Replace:

PressReplaceto enable overwriting recordings, like recording on tape. Replace is not destructive, but it does inspire productivity through simplicity and maintain a clean project Arrange Window. When Replace is disabled, recording over existing regions creates a take folder. If enabled, new overlapping audio recordings cut existing regions.

Settings forReplaceare in Logic Pro X ->Preferences -> Recording -> Replace:
Region Erase = Cut MIDI and audio regions when recording
Region Punch = Cut MIDI and audio regions when recording with input
Content Erase = Overwrites MIDI and audio inside regions when recording
Content Punch = Overwrites MIDI and audio inside regions when recording with input

Region Operations:

Use Cmd+ Function buttons to manage audio and MIDI regionsin the Arrange Window.
Cmd +F1 = Cut
Cmd +F2 = Copy
Cmd +F3 = Paste
Cmd +F4 = Clear
Cmd +F5 = Select All
Cmd +F6 = Select All Following
Cmd +F7 = Select Similar Regions/Events
Cmd +F8 = Select Inside Locators

Settings Mode:(Cmd+ Name/Value)

Encoder Knob 5 = Toggle track number on the main LCD display = Option +Name/Value
Encoder Knob 6 = Engages Channel Focus Lock: in Focus Modes, the selected track remains on the encoder knobs even after subsequent channel selections.

Encoder Knob 7 = Toggle the main LCD display style =Name/Value
Encoder Knob 8 = Toggle the digital time display =SMPTE/Beats

Additional Functions:*(default QCon Pro X, Platform B+ only)*
Save = Save Logic Pro X project
Option + Save = Save As: Save project with a new name
Cancel = Cancel preselection, Close track folder
Enter = Execute, OK, Open selected track folder
Undo = Logic Pro X Undofunction
Shift +Undo = Redo
Option + Undo = Open Undo History

External Controls:

On the units QCon Pro X, QCon Pro G2, and QCon Pro, connect a standard momentary foot switch to User A or User B, and then power on the Icon control surface.

User A = Toggle Play/Stop

User B = Record

After successful control surface setup with your Icon control surface and expansion banks, go to Logic Pro X ->Control Surfaces -> Setup for manual configuration.

Touch Fader to Select Track:

Check “activate touch faders activates track” to enable instant track selection when touching a fader. By default this feature is off, and the Select buttons are used to select a channel.

Fader Touch Sensitivity:

In the setup window under “Mackie Control” is a settingfor fader touch sensitivity. 0 makes the faders slightly less responsive and 5 is the maximum sensitivity.

Control Surface Group Parameters:

These settings impact all fader banks.This is the recommended default setup:

Flip Mode: Off*(“Mute”disables motor faders. Press Flip to restore)*
Display Mode: Value
Clock Display: SMPTE
Channel Strip View Mode: Arrange
Fader Bank for Tracks View: 0
Fader Bank for All View: 0
Channel Strip Parameter: Automation
Surround Parameter: Angle
EQ Band: 3
EQ Parameter: Gain
All EQs Parameter Page: 0
Send Slot: 1
Send Parameter: Destination
All Sends Parameter Page: 0
Split: no. of upper parameters: 0
Instrument Parameter Page: 0
Inst Param Page (Split Lower): 0
Insert Type: Audio *(“MIDI” changes Plug-In Assignment to instead access MIDI FX)*
Insert Slot: 1
Insert Type (Split Lower): Audio
Plug-in Parameter Page: 0
Channel Strip Track: 262145
Channel Strip Track (Split Lower): 262145
Track Lock: (No)
Track Name Format: Name
Parameter Page Shift Mode: By Page (“By Parameter”changes Cursor Arrows menu style)
Relative Change Mode: Coarse (“Full”, “Fine”changes Encoder Knobs edit style)
Mix Group: 1
Group Parameter Page: 0

Strange behavior in the DAW, unexpected functions, device not recognized, orfreezes:

Disconnect all MIDI-USB devices. In Logic, delete all control surface configurations andzones (including other MIDI devices) in Controller Assignments and Control Surface Setupand then close Logic. For testing, connect directly to the computer without a USB hub or USB extension cable. Turn on the Icon control surface and select the MCP Logic Pro X mode.

OSX – Go to Audio-MIDI-Setup, open MIDI Studio, and delete unused configurations and all Icon devices. Restart the Icon control surface to automatically reconfigure.

Finally, start Logic Pro X and configure the control surface in Control Surfaces -> Setup.
Go to New -> Install – select Mackie Control – click Add
Select your device for both Output and Input Port, displayed under “Device: Mackie Control”

Faders are not motorized:

The power source is not connected. Verify the power source by disconnecting USB and turning the control surface on. If power is well connected, it will start up normally.

Faders makenoise or move improperly:

A fader calibration is needed. Please read the section on Fader Calibration below for details.

I want to control and automate certain parameters:

Use the User Assignments 1-5 andMIDI Learnto assign parameters to controls. PressShift +Track to activate User Assignment 1, and use MIDI Learnin Logic Pro X to map parameters to the Encoder Knobs. Now, pressFlipto control these parameters with the faders.

Scrubplays no Audio:

In Logic Pro X, by default scrub does not play audio. To enable audio scrub go toPreferences -> Audio -> Editing, and select “Scrubbing with audio…”

I want to change the behavior of a function:

Icon control surfaces with MCP offer deep and complex control options, just please remember that the control surface only sends/receives MIDI messages. The functionality happens in your DAW. The style and components of a function is fixed based on the DAW MCP implementation, and can’t be changed unless specifically otherwise stated. The behavior is different in every DAW and can change with DAW version updates.

I want to see customvalues on the display:

The messages and values on the display are generated from values sent by the DAW as return MIDI. Display readouts in return MIDI are controlled by the MCP implementation in your DAW, so they are not customizable unless specifically otherwise stated. The rate at which the screen updates certain parameters is controlled by the frequency of the corresponding MIDI messages in the DAW. These update rates have changed with various Logic Pro X updates.

I want to adda custom function:

It is possible to use User Assignment Modes with MIDI Learn to freely assign parameters to the encoder knobs, and pressFlip to apply these controls to the faders. To alter and customize controls beyond standard MCP, please review the DAW developer support on customizing controller assignments in expert view. In many DAWs, it is possible to assign Key Commands (instead of MCP functions) to MIDI Input generated from buttons on Icon control surfaces. In the typical style of MCP implementation, device-specific MIDI input used by the DAW for MCP is blocked from other uses.

I want to rescale the faders:

The fader volume curve, zero dB position and value range are preset in the DAW implementation of MCP, and can't be adjusted. There is variance between different DAWs.

I want to change the Jog Wheelresolution:

The behavior of the Jog Wheel is preset in the DAW implementation of MCP. In Logic Pro X, its movement resolution is linked to the grid in the Arrange Window. There is variance between different DAWs.There may be some adjustment for this, at least by changing grid settings.Pressing Scrub enables fine movement with the Jog Wheel.

<<<<<<<<< Firmware Update >>>>>>>>>

To accommodate future changes to MCP implementation in new DAW versions plus expand on operational features, Icon provides Firmware updates for current production and legacy control surfaces.

Caution:

Please take extra care to follow the correct procedure when performing a firmware update. When performing a firmware upgrade, always connect directly to the computer without a USB Hub or extension, and only connect one device to the computer during update. Also quit all other software which can access MIDI input/output such as your DAW or utility programs.

Verify the power source is well connected to the control surface. You can check by starting the controller with no USB cable connected. If thedevice startup proceeds normally, external power appears to be ok.

To Update:

OSX – Install and open the device-specificiMap, use "Connect" to select your device, click Update and follow the directions on screen.(For an XS or EX unit, first switch iMap mode by clicking the QCon icon in iMap)

Windows / Legacy – Install and open the device-specific iMap, use "MIDI Devices" to select your device, click Update. Newer iMap releases automatically download the correct firmware online.

!After Firmware Update, reinstall the device in your DAW by deleting the previous device configuration and repeating the MCP device setup.

!Never attempt to "downgrade" firmware of an Icon control surface.

! Only use the iMap and Firmware versions specific for your hardware version.Also be sure to get the newest iMap on the Icon Pro Audio website.

! Never unpack a .bin firmware file

<<<<<<<<<Fader Calibration – QCon Series>>>>>>>>>

We recommend that every QCon owner performs a fader calibration. The best values vary according to the DAW of choice and preference. In the digital domain (in your DAW) valuescan move from 0 to 100 in an instant, but physical faders need to actually travel from point A to point B.Fader Calibration allows fine adjustment to the properties of how each motor fader responds when commanded to move.

Press and hold the Rec Button on channel two and start the device. Fader Calibration will display. Turn each Encoder Knob to fine tune the value for each channel. A higher value results in smoother, quieter response. A lower value results in faster movement speed. Each fader can be fine tuned individually. To adjust the master fader, use the channel select buttons 7 and 8. To save the new changes and exit, press Encoder Knob 8.

For Logic Pro X, start with values set at 190, evaluate, then adjust individually to personal preference.

<<<<<<<<<Fader Calibration – Platform (v2.00 and up)>>>>>>>>>

We recommend that every Platform owner performs a fader calibration. The best adjustment varies according to the DAW of choice and preference. In the digital domain (in your DAW) valuescan move from 0 to 100 in an instant, but physical faders need to actually travel from point A to point B. Fader Calibration allows adjustment to the properties of how the motor faders respond when commanded to move.

Press and hold the Encoder Knob on channel one and start the device. Turn Encoder Knob 8 to adjust the total fader response. It is also possible to adjust a single fader by now holding down Rec on channel three while adjusting the encoder of each channel. A higher value results in smoother, quieter response. A lower value results in faster movement speed. To save the new changes and exit, press Encoder Knob 8.

Start with a slower movement, test in your DAW and evaluate, then adjust individually to personal preference.

Control Surface Functionality Manual

Pro Tools HUI

QCon Pro X, QCon Pro XS, QCon Pro G2, QCon EX G2 Platform M+, Platform B+, Platform D2, Platform X+, Platform Nano

Revision v1.00

This is a master manual. Specific device manuals can be built from this material.

Congratulations on owning an Icon control surface! This manual documents the full range of potential functions when the device is installed in Pro Tools.

You can extensively controlPro Tools with an Icon QCon seriescontrol surface or Icon Platform modular control system using standard MackieControl protocol.Expansion bank units can be addedfor more hands-on controls:QCon expansion units for the QCon series and the Platform X+ channel bank expansion. Platform B+ button module is necessary toaccess all functions in this manual with Platform M+, and the D2 display highly recommended.Icon Metal Fader Caps and Icon Metal Knob Caps are available as an aesthetic and haptic upgrade for the best control experience.

The terms Mackie Control and HUIare used to refer to the control protocol standard to be used with the QCon and Platform series control surfaces. Pro Tools and all DAW-specific terminology belong to their copyright holders and has no affiliation with Icon Pro Audio.

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Control Surface Function

Control Surface Button

DAW Term

ButtonA + ButtonB =hold Button A and press Button B

Button A - Button B = press Button A and then press Button B

<<<<<<<<< Setup>>>>>>>>>

Before you can use your control surface, you will first need to configure it in Pro Tools. Once setup,Pro Tools will remember your settings for future sessions without the need to reconfigure. For maximum stability, first boot the control surface and select the DAW Mode, then start your DAW software.

When your control surface is switched on, it will first prompt for a DAW Mode selection. Select the corresponding mode with the illuminated navigation buttons and confirm selection with the highlighted DAW mode button. On Platform M+, the small channel indicator will light to show the currently selected DAW Mode.If no buttons are pressed, the control surface will select the previously used mode after a few seconds.

In the latest device Firmware version (may require Firmware update):

1: MCP General 2: Logic Pro **3: Pro Tools HUI** 4: User Defined

In Pro Tools, go to Setup ->Peripherals ->MIDI Controllers. In row #1, select Type:HUI, and choose your device name for both Receive From and Send To, and select # Ch's: 8.

In addition, go to Setup -> MIDI, Input Devices. Set a check mark next to the Icon control surface and click OK.

<<<<<<<<< Getting Started >>>>>>>>>

When first opening a blank project inPro Tools, we are looking at the Edit Window. Add Tracks to your project here, and you will see the motor faders jump into position. Each Icon control surface has one physical bank consisting of 8 channel strip controls. Each channel strip corresponds to controls for one track in your DAW. The track name appears on the display above each channel strip. Touch a fader and adjust the track's volume. Change a track's volume in Pro Tools and the corresponding motor fader will adjust itself. You can balance the volume of multiple faders on the control surface simultaneously – already a huge mixing advantage of using a control surface. Press the Bank up / down buttons to scroll through further tracks in the project in fixed blocks of 8.The Channel up / down buttons stepthe focus of the current bankone track at a time.

The 9th fader on your control surface is the Master Fader. Pro Tools does not support any use of the master fader or master meter with HUI.

The Encoder Knobs edit parameters according to the current Assignment Mode. Turn them to edit a parameter or change a selection.Each knob affects the track on that channel strip, or in advanced encoder modes, allknobs affect the currently selected Track. Press the knob to reset to the default value, or confirm a selection depending on the Assignment Mode.







<<<<<<<<<Mix and Transport>>>>>>>>>

Transport:

Play = Begin playback
Stop = Stop playback
Rec (transport) =Arm recording
FastForward = Shuttle forward in Edit Window
Rewind =Shuttle backwards in Edit Window
Cycle = Toggle the playback loop on/off

Channel Bank Options:

Channel up/down = Step the current bank by one track
Bank up/down = Scroll through tracks in blocks of 8

Channel Strip Buttons:

Rec (channel) = Arms thetrack for recording.
Solo = Engage Solo for one or multiple tracks
Mute = Engage Mute for one or multiple tracks
Select = Focuses and selects the track

Jog Wheel:

Press Scrubto toggle the Jog Wheel function between scrub and off. Then turn the Jog Wheel to adjust the playhead position, visible in the Edit Windowin Pro Tools.*(On Platform M+, scrub is accessed by pressing down the jog wheel.)*

Fader Lock:

Press Lock Mix to disable touch sensitive changes to fader position.

<<<<<<<<<View>>>>>>>>>

Time Display:

Thedigitaltime displayshows the current play position in Bars|Beats, Min:Secs, SMPTE Timecode, Feet+Frames, or Samples, depending on the current selection in the Pro Tools transport window.

Window Shortcuts:

Edit= Toggle Edit Window
Mix= Toggle Mix View
Transport= Show/hide Transport Window
Mem Lock= Show/hide Memory Locations Window

Zoom &Cursor Arrows:

The Cursor Arrows (left, right, up, down) change selections in both Mix View and Edit Window, or modify zoom in the Edit Window.Press Zoom to activate zoom controls using the Cursor Arrows. Zoom controls only work in the Edit Window.

(On Platform M+, Zoom is managed by toggling the Zoom buttons and turning the jog wheel.)

<<<<<<<<< Encoder Knob Assignment>>>>>>>>>

Press the Assignment buttons to select the category of parameters currently assigned to the Encoder Knobs. Press or turn the Encoder Knobs to edit parameters.

Pan Assignment:

Pan = Activates Pan Assignment, view and edit routingfor each track. Press Panagain to toggle panning left/right on stereo tracks.

Routing Assignment: *(QCon Pro X and Platform B+ only)*

Assign + Input = Activates I/ORouting, edit inputrouting for each track with the Encoder Knobs. Press Assign to confirm.

Assign + Output = Activates I/ORouting, edit outputrouting for each track with the Encoder Knobs. Press Assign to confirm.

Plug-In Assignment:

Plug-In = Select a channel, then press Plug-In. Next press Plug-In Assign to view the selected channel's inserts 1-4 on the LCD Display.Turn the Encoder Knobs to add/select plug-in effects. Press Plug-In Assign to confirm. Turn Encoder Knob 5 to access insert 5 on knob 1. Press an Encoder Knob 1-4 to edit the selected plugin. Parametersappear on the LCD Display above track 1-4. Turn the Encoder Knobs to edit the lower parameter, press the Encoder Knobs to toggle the upper parameter. Turn Encoder Knob 5 to access further pages of parameters on knobs 1-4. Press Encoder Knob 5 to return to viewing inserts for the selected channel.

While a plugin is open:
Bypass = Toggle Plug-In Bypass
Compare = Toggle previous plugin parameter settings

Send Assignment:

Assign + Send A-E = Activates Send Routing, edit send destination for each track with the Encoder Knobs. Press Assign to confirm.

Send A-E = Activates Send Assignment, Turn the Encoder Knobs to adjust the send level to the corresponding send destination for eachtrack.

Press Flip to access the currentSend Faders on themotor faders.

<<<<<<<<<Automation>>>>>>>>>>

Ease creating and managing automation is a highlight of using a control surface with motor faders. Press the Automation buttons to change the automation behavior of the selected track.

Automation Modes:

Read = Toggle between Read and Off:
Set to Read, the channel will respond to existing automation in real time. Any parameters with automation will jump to existing automated values during playback.
Set to Off, the channel will ignore all automation.

Write = All channel parameters record automation during playback. This overrides and replaces all automation. This is for tracking an unassisted mixdown performance.

Touch = The channel reads existing automation, plus writes automation for specific parameters adjusted during playback. This only creates automation while parameters are being edited.

Latch = Reads existing automation, plus writes automation for specific parameters adjusted during playback. This continues to write automation for any parameters which have been changed during playback.

Trim = Trim allows automation to be modified instead of overwritten. Adjusting knobs and faders during playback will make a change relative to existing automation.

Off= Disable track automation. Set to Off, the channel will ignore all automation.

Suspend= Disable automation on all tracks

<<<<<<<<<Utilities>>>>>>>>>

In=Set the left locator at the playhead position
Out= Set the right locator at the playhead position
Punch= Activate Quick Punch: during playback, tap Record to track and Play to punch out

Undo = Pro ToolsUndo function
Shift +Cmd + Undo = Pro ToolsRedofunction
Save= Pro ToolsSaveproject
Enter= Pro ToolsEnterfunction
Esc/Cancel= Pro ToolsCancelfunction

<<<<<<<<<Modifiers>>>>>>>>>

Thefour Modifier buttons can be held to alter the function of other commands as defined with Pro Tools keyboard shortcuts. Some applications for the four modifier buttons:

Option + Cursor Arrows =Scrollwindow view in Edit Windowor Mix View
Shift + Cursor Arrows = Extend selection in Edit Window
Control= Clutch: hold bypass grouping for track levels (faders)
Option+ Cursor Arrows(left/right) =Centersselection in Edit Window
Option + Cursor Arrows(up/down) =Subtract track selection in Edit Window

<<<<<<<<< Troubleshooting >>>>>>>>>

Strange behavior in the DAW, unexpected functions, device not recognized, orfreezes:

Disconnect all MIDI-USB devices. In Pro Tools, remove all control surface configurationsin Setups -> Peripherals -> MIDI Controllers andclose Pro Tools. For testing, connect directly to the computer without a USB hub or USB extension cable. Turn on the Icon control surface and select the HUIPro Tools mode.

First check that the specified USB cable is in good condition and well connected. For testing, connect directly to the computer without a USB hub or USB extension cable.

OSX – Go to Audio-MIDI-Setup, open MIDI Studio, and delete unused configurations and Icon devices. Restart the Icon control surface to automatically reconfigure.

Windows –Open the Device Manager in Windows, select the Icon Control Surface, and delete the device.Now restart the control surface to automaticallyreconfigure. If there remain issues related to the USB connection, a Windows update can repairsome issues.

Windows – If the device does not appear in the Windows Control Panel, you may need to uninstall MIDI devices - you will need a third party utility application to do this easily. Windows has limits on MIDI devices successfully installed in total, and MIDI devices remain installed when disconnected.

Finally, start Pro Tools and reconfigure the control surface in Setups -> Peripherals -> MIDI

Controllers.

Faders are not motorized:

The power source is not connected. Verify the power source by disconnecting USB and turning the control surface on. If power is well connected, it will start up normally.

Faders make noise or move improperly:

A fader calibration is needed. Please read the section on Fader Calibration below for details.

I want to control and automate certain parameters:

Access parameters via the Assignment Modesand use Automation Modesto begin creating live automation.PressFlipto control these parameters with the faders.

I want to change the behavior of a function:

Icon control surfaces with MCP offer deep and complex control options, just please remember that the control surface only sends/receives MIDI messages. The functionality happens in your DAW. The style and components of a function is fixed based on the DAW MCP implementation, and can't be changed unless specifically otherwise stated. The behavior is different in every DAW and can change with DAW version updates.

I want to see customvalues on the display:

The messages and values on the display are generated from values sent by the DAW as return MIDI. Display readouts in return MIDI are controlled by the MCP implementation in your DAW, so they are not customizable unless specifically otherwise stated. The rate at which the screen updates certain parameters is controlled by the frequency of the corresponding MIDI messages in the DAW. These update rates have changed with various Pro Tools updates.

I want to adda custom function:

To alter and customize controls beyond standard MCP, please review the DAW developer support on customizing controller assignments in expert view. In some DAWs, it is possible to assign Key Commands (instead of MCP functions) to MIDI Input generated from buttons on Icon control surfaces. In the typical style of MCP implementation, device-specific MIDI input used by the DAW for MCP is blocked from other uses.

I want to rescale the faders:

The fader volume curve, zero dB position and value range are preset in the DAW implementation of MCP, and can't be adjusted. There is variance between different DAWs.

I want to change the Jog Wheel resolution:

The behavior of the Jog Wheel is preset in the DAW implementation of MCP. There is variance between different DAWs. There may be some adjustment for this, at least by changing grid settings. Pressing Scrub enables fine movement with the Jog Wheel.

<<<<<<<<< Firmware Update>>>>>>>>>

To accommodate future changes to MCP implementation in new DAW versions plus expand on operational features, Icon provides Firmware updates for current production and legacy control surfaces.

Caution:

Please take extra care to follow the correct procedure when performing a firmware update. When performing a firmware upgrade, always connect directly to the computer without a USB Hub or extension, and only connect one device to the computer during update.Also quit all other software which can access MIDI input/output such as your DAW or utility programs.

Verify the power source is well connected to the control surface. You can check by starting the controller with no USB cable connected. If thedevice startup proceeds normally, external power appears to be ok.

To Update:

OSX – Install and open the device-specific iMap, use “Connect” to select your device, click Update and follow the directions on screen.(For an XS or EX unit, first switch iMap mode by clicking the QCon icon in iMap)

Windows / Legacy – Install and open the device-specific iMap, use “MIDI Devices” to select your device, click Update. Newer iMap releases automatically download the correct firmware online.

!After Firmware Update, reinstall the device in your DAW by deleting the previous device configuration and repeating the MCP device setup.

!Never attempt to “downgrade” firmware of an Icon control surface.

! Only use the iMap and Firmware versions specific for your hardware version. Also be sure to get the newest iMap on the Icon Pro Audio website.

! Never unpack a .bin firmware file

<<<<<<<<< Fader Calibration – QCon Series >>>>>>>>>

We recommend that every QCon owner performs a fader calibration. The best values vary according to the DAW of choice and preference. In the digital domain (in your DAW) valuescan move from 0 to 100 in an instant, but physical faders need to actually travel from point A to point B. Fader Calibration allows fine adjustment to the properties of how each motor fader responds when commanded to move.

Press and hold the Rec Button on channel two and start the device. Fader Calibration will display. Turn each Encoder Knob to fine tune the value for each channel. A higher value results in smoother, quieter response. A lower value results in faster movement speed. Each fader can be fine tuned individually. To adjust the master fader, use the channel select buttons 7 and 8. To save the new changes and exit, press Encoder Knob 8.

Start with values set at 185, evaluate, then adjust individually to personal preference.

<<<<<<<<<Fader Calibration – Platform (v2.00 and up)>>>>>>>>>

We recommend that every Platform owner performs a fader calibration. The best adjustment varies according to the DAW of choice and preference. In the digital domain (in your DAW) valuescan move from 0 to 100 in an instant, but physical faders need to actually travel from point A to point B. Fader Calibration allows adjustment to the properties of how the motor faders respond when commanded to move.

Press and hold the Encoder Knob on channel one and start the device. Turn Encoder Knob 8 to adjust the total fader response. It is also possible to adjust a single fader by now holding down Rec on channel three while adjusting the encoder of each channel. A higher value results in smoother, quieter response. A lower value results in faster movement speed. To save the new changes and exit, press Encoder Knob 8.

Start with a slower movement, test in your DAW and evaluate, then adjust individually to personal preference.

Control Surface Functionality Manual

Ableton Live 10

QCon Pro X, QCon Pro XS, QCon Pro G2, QCon EX G2 Platform M+, Platform B+, Platform D2, Platform X+, Platform Nano

Revision v0.81

This is a master manual. Specific device manuals can be built from this material.

Congratulations on owning an Icon control surface! This manual documents the full range of potential functions when the device is installed in Ableton Live.

You can extensively controlAbleton Live with an Icon QCon seriescontrol surface or Icon Platform modular control system using standard MackieControl protocol.Expansion bank units can be addedfor more hands-on controls:QCon expansion units for the QCon series and the Platform X+ channel bank expansion. Platform B+ button module is necessary toaccess all functions in this manual with Platform M+, and the D2 display highly recommended.Icon Metal Fader Caps and Icon Metal Knob Caps are available as an aesthetic and haptic upgrade for the best control experience.

The term Mackie Control is used to refer to the control protocol standard to be used with the QCon and Platform series control surfaces, and is abbreviated as MCP. Ableton Live and all DAW-specific terminology belong to their copyright holders and has no affiliation with Icon Pro Audio.

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<<<<<Color Reference Key>>>>>

Control Surface Function

Control Surface Button

DAW Term

ButtonA + ButtonB =hold Button A and press Button B

Button A - Button B = press Button A and then press Button B

<<<<<<<<< Setup>>>>>>>>>

Before you can use your control surface, you will first need to configure it in Ableton Live. Once setup,Ableton Live will remember your settings for future sessions without the need to

reconfigure. For maximum stability, first boot the control surface and select the DAW Mode, then start your DAW software.

When your control surface is switched on, it will first prompt for a DAW Mode selection. Select the corresponding mode with the illuminated navigation buttons and confirm selection with the highlighted DAW mode button. On Platform M+, the small channel indicator will light to show the currently selected DAW Mode.If no buttons are pressed, the control surface will select the previously used mode after a few seconds.

In the latest device Firmware version (may require Firmware update):

1: MCP General 2: Logic Pro 3: Pro Tools HUI 4: User Defined

In Ableton Live, advanced configuration needs to be enabled. Open Ableton Live -> Preferences -> General -> Advanced, select Show Advanced Tools, and verify that all additional options are checked. (Audio, Surround, MIDI, Score, Control Surface, Advanced Edit)

To configure your Icon control surface, go to Ableton Live -> Control Surfaces -> Setup. Delete previous Mackie Control configurations, then go to New -> Install, select Mackie Control, and click Add. Finally choose your device name for both the Output Port and Input Port, displayed under “Device: Mackie Control”.

Repeat this process for any expansion modules but us Mackie Control XT. You can now use your Icon control surface for transport, mix, and extended control functions. Next up: An overview ofthe fundamental elements for controlling Ableton Live.

<<<<<<<<< Getting Started >>>>>>>>>

When first opening a blank project inAbleton Live, we are looking at the Session View. Add tracks to your project here, and you will see the motor faders jump into position. Each Icon control surface has one physical bank consisting of 8 channel strip controls. Each channel strip corresponds to controls for one track in your DAW. The track name appears on the display above each channel. Touch a fader and adjust the track’s volume. Change a channel’s volume in Ableton Live and the corresponding motor fader will adjust itself. You can balance the volume of multiple faders on the control surface simultaneously – already a huge mixing advantage of using a control surface. Press the Bank up / down buttons to scroll through further channels in the project in fixed blocks of 8.The Channel up / down buttons stepthe focus of the current bankone channel at a time.

The 9th fader on your control surface is the Master Faderand always commands the master level, which engages after the output stage of the project, so after any plugins used on the output sum.This is advantageous for several classic mixing techniques and effectively regulates your monitor volume.

The Encoder Knobs edit parameters according to the current Assignment Mode. Turn them

to edit a parameter or change a selection.Each knob affects the track on that channel strip, or in advanced encoder modes, allknobs affect the currently selected track. Press the knob to reset to the default value, or confirm a selection depending on the Assignment Mode.



<<<<<<<<<Mix and Transport>>>>>>>>>

Jog Wheel:

Turn the Jog Wheel to quickly adjust the play position on the grid, visible in the ArrangementViewin Ableton Live.Scrubtoggles the Jog Wheelbehavior. *(On Platform M+, scrub is activated by pressing down the jog wheel.)*

!! By default in Ableton Live, scrub is disabled in the arrangement. To enable Scrub in Arrangement View, in Ableton Live go to Preferences -> Look/Feel and activate “Permanent Scrub Areas”.

Transport:
Play = Begin playback

Stop = Stop playback

Rec (transport) = Begin recording Audio and MIDI input

FastForward= Shuttle forward in Arrangement View

Rewind =Shuttle backwards in Arrangement View

Cycle = Toggle the playback loop cycle on/off

Channel Bank Options:

Bank up/down = Scroll through tracks in the project in fixed blocks of 8

Channel up/down = Step the current bank by one track

Shift + Bank up/down = Scroll bank to first or last track

Shift + Channel up/down = Scroll bank to first or last track

Channel Strip Buttons:

Rec (channel) = Arms a singletrack for recording.

!! To allow multiple track recording, in Ableton Live go to Preferences ->Misc and deactivate "Exclusive Track Arming"

Solo = Engage Solo for a singletrack

!! To allow multiple tracks insolo, in Ableton Live go to Preferences ->Misc and deactivate "Exclusive Track Soloing"

Mute = Engage Mute for one or multiple tracks

Select = Focuses and selects the track

Fader Lock:

Press Lock Mix to disable touch sensitive changes to fader position. Automation remains active. This is useful to secure a finished mix.

<<<<<<<<<View>>>>>>>>>

Time Display:

Thedigitaltime displayshows the current play position, either in bars and beats or in SMPTE time code format. Press SMPTE/Beatstotoggle readoutformats on the time display.

View Shortcuts:

Session/Arrange= Toggle Arrangement View and Session View

Track/Clip = Toggle Clip View and Track View

Browser = Show/hide the Browser

Clip Detail = Show/hide the Clip/Track View

Follow = Activate Follow Mode to auto-scroll during playback in Arrangement View

Zoom &Cursor Arrows:

The Cursor Arrows (left, right, up, down) change selections or modify zoom in the Arrangement View.In Assignment Modes they change theEncoder Knob parameter selection and scroll through pages of parameters when editing plug-ins.

Press Zoom to activate zoom controls using the Cursor Arrows. Zoom controls only work in the Arrangement View. When the Zoom button is illuminated, press Option + Cursor Arrows to adjust individual track zoom.

(On Platform M+, Zoom is managed by toggling the Zoom buttons and turning the jog wheel.)

Show Return Tracks: (Returns)

Activate showingReturn Tracks to display and control return tracks on the channel strips.

(On QCon Pro G2: Shift + F8)

<<<<< <<<< Encoder Knob Assignment >>>> >>>>>

Press one of the Assignment buttons to select the category of parameters currently assigned to the Encoder Knobs. Turn the Encoder Knobs to edit parameters, and press to toggle selection from a list. Pressing a knob when editing a parameter restores the default value. Use Previous / Next to browse pages of parameters.

Assignment Mode s:

I/O = Activates Routing Assignment, view and edit routing for each track. Press I/O to toggle viewing Input Type, Input Channel, Output Type, Output Channel

Send = Activates Send Assignment, adjust multiple send levels for the selected track

Pan = Activates Pan Assignment, edit stereo pan for each track

Rack = Activates Rack Assignment, create and adjust plug-in effects and instruments: Press Rack to display devices for the currently selected track. Use Page up/down to browse pages of devices and press an Encoder Knobs to select a device. Parameters appear across the LCD display over the Encoder Knobs to be edited.

Fader Flip :

Press Flip to access the current Encoder Knob parameters on the touch sensitive motor faders. Channel volume can then be adjusted using the Encoder Knobs. This is great for precise parameter adjustments and managing automation.

<<<<< <<<< Utilities >>>> >>>>>

Use Marker to create a locator at the play position. Press Stop, then Marker to delete a currently selected locator. Press Next / Previous to jump between set locators.

Press Draw Mode to create automation in Arrangement View. Use the Faders to automate volume and the Encoder Knobs to automate the parameters currently assigned to.

Undo = Ableton Live Undo function

Redo = Ableton Live Redo function

Shift + Session/Arrange = Set focus to Arrangement View or Session View

Shift + Track/Clip = Set focus to Track View or Clip View

Shift + Browser = Set focus to Browser

<<<<<<<<< User Functions >>>>>>>>>

The eight Function buttons, F1 through F8, are to be assigned custom user commands using MIDI map mode in Ableton Live. MIDI mappings are saved in projects and your favorite setup should best be saved in your template project.

Recommended custom user commands:

F1 = Play all clips in Scene 1 (Master, Session View)

F2 = Play all clips in Scene 2

F3 = Play all clips in Scene 3

F4 = Play all clips in Scene 4

F5 = Play all clips in Scene 5

F6 = Play all clips in Scene 6

F7 = Play all clips in Scene 7

F8 = Play all clips in Scene 8

In Ableton Live, assigning MIDI mappings overrides control surface functions. This allows that in addition to the Function buttons, other buttons can be assigned useful functions as well. MIDI mappings are saved in projects and you favorite setup should best be saved in your template project.

Additional recommended user commands:

(Name/Value) = Tap Tempo- Press repeatedly to set project BPM

(DAWmode1) = Punch In- start recording at the loop start position

(DAWmode2) = Punch Out - stop recording at the loop end position

(DAWmode3) = Capture- Create a clip from the last given MIDI input

(2ndBot-Left) = Metronome-(On/Off)

Additional for Pro X

(AssignmentRight) = MIDI Arrangement Overdub- Recording MIDI adds to existing clips

(MarkerFarRight1) = NEW - Opens new scene for all record armed tracks

(MarkerFarRight2) = Automation Arm - enables automation recording

Shift + F1 to F8 = User Functions F9 to F16(Verify in new firmware)

External Controls:

On the units QCon Pro X, QCon Pro G2, and QCon Pro, connect a standard momentary foot switch to User A or User B, and then power on the Icon control surface.

User A and User B = Can be assigned a function with MIDI Mapping

<<<<<<<<< Troubleshooting >>>>>>>>>

Strange behavior in the DAW, unexpected functions, device not recognized, orfreezes:

Disconnect all MIDI-USB devices. In Logic, delete all control surface configurations andzones (including other MIDI devices) in Controller Assignments and Control Surface Setupand then close Logic. For testing, connect directly to the computer without a USB hub or USB extension cable. Turn on the Icon control surface and select the MCP Ableton Live mode.

First check that the specified USB cable is in good condition and well connected. For testing, connect directly to the computer without a USB hub or USB extension cable.

OSX – Go to Audio-MIDI-Setup, open MIDI Studio, and delete unused configurations and Icon devices. Restart the Icon control surface to automatically reconfigure.
Windows –Open the Device Manager in Windows, select the Icon Control Surface, and delete the device.Now restart the control surface to automaticallyreconfigure. If there remain issues related to the USB connection, a Windows update can repairsome issues.

Windows – If the device does not appear in the Windows Control Panel, you may need to uninstall MIDI devices - you will need a third party utility application to do this easily.Windows has limits on MIDI devices successfully installed in total, and MIDI devices remain installed when disconnected.

Finally, start Ableton Live and configure the control surface in Control Surfaces -> Setup.

Go to New -> Install – select Mackie Control – click Add

Select your device for both Output and Input Port, displayed under “Device: Mackie Control”

Repeat the process for extensions, but instead select Mackie Control XT.

Faders are not motorized:

The power source is not connected. Verify the power source by disconnecting USB and turning the control surface on. If power is well connected, it will start up normally.

Faders make noise or move improperly:

A fader calibration is needed. Please read the section on Fader Calibration below for details.

I want to control and automate certain parameters:

Access parameters via the Assignment Modes and use Automation Modes to begin creating live automation. Press Flipto control these parameters with the faders. Additionally, useMIDI Learnto assign parameters to free user controls.

I want to change the behavior of a function:

Icon control surfaces with MCP offer deep and complex control options, just please remember that the control surface only sends/receives MIDI messages. The functionality happens in your DAW. The style and components of a function is fixed based on the DAW MCP implementation, and can't be changed unless specifically otherwise stated. The behavior is different in every DAW and can change with DAW version updates.

I want to see customvalues on the display:

The messages and values on the display are generated from values sent by the DAW as return MIDI. Display readouts in return MIDI are controlled by the MCP implementation in your DAW, so they are not customizable unless specifically otherwise stated. The rate at which the screen updates certain parameters is controlled by the frequency of the corresponding MIDI messages in the DAW. These update rates have changed with various Ableton Live updates.

I want to adda custom function:

To alter and customize controls beyond standard MCP, please review the DAW developer support on customizing controller assignments in expert view. In some DAWs, it is possible to assign Key Commands (instead of MCP functions) to MIDI Input generated from buttons on Icon control surfaces. In the typical style of MCP implementation, device-specific MIDI input used by the DAW for MCP is blocked from other uses.

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The fader volume curve, zero dB position and value range are preset in the DAW implementation of MCP, and can't be adjusted. There is variance between different DAWs.

I want to change the Jog Wheel resolution:

The behavior of the Jog Wheel is preset in the DAW implementation of MCP. There is variance between different DAWs. There may be some adjustment for this, at least by changing grid settings. Pressing Scrub enables fine movement with the Jog Wheel.

<<<<<<<<< Firmware Update>>>>>>>>>

To accommodate future changes to MCP implementation in new DAW versions plus expand on operational features, Icon provides Firmware updates for current production and legacy control surfaces.

Caution:

Please take extra care to follow the correct procedure when performing a firmware update. When performing a firmware upgrade, always connect directly to the computer without a USB Hub or extension, and only connect one device to the computer during update. Also quit all other software which can access MIDI input/output such as your DAW or utility programs.

Verify the power source is well connected to the control surface. You can check by starting the controller with no USB cable connected. If thedevice startup proceeds normally, external power appears to be ok.

To Update:

OSX – Install and open the device-specificiMap, use “Connect” to select your device, click Update and follow the directions on screen.(For an XS or EX unit, first switch iMap mode by clicking the QCon icon in iMap)

Windows / Legacy – Install and open the device-specific iMap, use “MIDI Devices” to select your device, click Update. Newer iMap releases automatically download the correct firmware online.

!After Firmware Update, reinstall the device in your DAW by deleting the previous device configuration and repeating the MCP device setup.

!Never attempt to “downgrade” firmware of an Icon control surface.

! Only use the iMap and Firmware versions specific for your hardware version. Also be sure to get the newest iMap on the Icon Pro Audio website.

! Never unpack a .bin firmware file

<<<<<<<<< Fader Calibration – QCon Series >>>>>>>>>

We recommend that every QCon owner performs a fader calibration. The best values vary according to the DAW of choice and preference. In the digital domain (in your DAW) valuescan move from 0 to 100 in an instant, but physical faders need to actually travel from point A to point B. Fader Calibration allows fine adjustment to the properties of how each motor fader responds when commanded to move.

Press and hold the Rec Button on channel two and start the device. Fader Calibration will display. Turn each Encoder Knob to fine tune the value for each channel. A higher value results in smoother, quieter response. A lower value results in faster movement speed. Each fader can be fine tuned individually. To adjust the master fader, use the channel select buttons 7 and 8. To save the new changes and exit, press Encoder Knob 8.

For Live 10, I recommend starting with values set at 185, evaluate, then adjust individually to personal preference.

<<<<<<<<<Fader Calibration – Platform (v2.00 and up)>>>>>>>>>

We recommend that every Platform owner performs a fader calibration. The best adjustment varies according to the DAW of choice and preference. In the digital domain (in your DAW) valuescan move from 0 to 100 in an instant, but physical faders need to actually travel from point A to point B. Fader Calibration allows adjustment to the properties of how the motor faders respond when commanded to move.

Press and hold the Encoder Knob on channel one and start the device. Turn Encoder Knob 8 to adjust the total fader response. It is also possible to adjust a single fader by now holding down Rec on channel three while adjusting the encoder of each channel. A higher value results in smoother, quieter response. A lower value results in faster movement speed. To save the new changes and exit, press Encoder Knob 8.

I recommend starting with a slower movement, test in your DAW and evaluate, then adjust individually to personal preference.

AppendixB

Cubase

<<<<<<<<< MCP MIDI Implementation >>>>>>>>>

This is a list of standard MCP functions in Cubase and their MIDI CC control values.

MIDI Ch1	FunctionI Cubase	nfo		FunctionI Ch1 Cubase	nfo
C1	Select 1	*Channel Select*	|	G#1 Encoder 1	*Press Encoder*
C#1	Select 2	*Channel Select*	|	A1 Encoder 2	*Press Encoder*
D1	Select 3	*Channel Select*	|	A#1 Encoder 3	*Press Encoder*
D#1	Select 4	*Channel Select*	|	B1 Encoder 4	*Press Encoder*
E1	Select 5	*Channel Select*	|	C2 Encoder 5	*Press Encoder*
F1	Select 6	*Channel Select*	|	C#2 Encoder 6	*Press Encoder*
F#1	Select 7	*Channel Select*	|	D2 Encoder 7	*Press Encoder*
G1	Select 8	*Channel Select*	|	D#2 Encoder 8	*Press Encoder*
C-1	Rec 1	*Channel Rec*	|	E2 Page Up	
C#-1	Rec 2	*Channel Rec*	|	F2 Page Down	
D-1	Rec 3	*Channel Rec*	|	F#2 Pan	*Assignment*
D#-1	Rec 4	*Channel Rec*	|	G2 Plugin	*Assignment*
E-1	Rec 5	*Channel Rec*	|	G#2 EQ	*Assignment*
F-1	Rec 6	*Channel Rec*	|	A2 FX Send	*Assignment*
F#-1	Rec 7	*Channel Rec*	|	A#2 Bank Up	*Bank 8 Channels*
G-1	Rec 8	*Channel Rec*	|	B2 Bank Down	*Bank 8 Channels*
G#-1	Solo 1	*Channel Solo*	|	C3 Channel Up	*Bank One Channel*
A-1	Solo 2	*Channel Solo*	|	C#3 Channel Down	*Bank One Channel*
A#-1	Solo 3	*Channel Solo*	|	D3 Flip	*Fader Flip Mode*
B-1	Solo 4	*Channel Solo*	|	D#3 -	
C0	Solo 5	*Channel Solo*	|	A#4 Undo	
C#0	Solo 6	*Channel Solo*	|	B4 Redo	
D0	Solo 7	*Channel Solo*	|	C5 Save	
D#0	Solo 8	*Channel Solo*	|	C#5 -	
E0	Mute 1	*Channel Mute*	|	C6 Left	
F0	Mute 2	*Channel Mute*	|	C#6 Right	
F#0	Mute 3	*Channel Mute*	|	D6 Loop	

MIDI Ch1	FunctionI Cubase	nfo
G0	Mute 4	*Channel Mute*
G#0	Mute 5	*Channel Mute*
A0	Mute 6	*Channel Mute*
A#0	Mute 7	*Channel Mute*
B0	Mute 8	*Channel Mute*

A6	Stop	
A#6	Play	
B6	Record	*Main record*
C7	Cursor Up	*^*
D7	Cursor Left	*<*
E7	Zoom	
D#7	Cursor Right	*>*
C#7	Cursor Down	*v*
G6	Rewind	*<<*
G#6	FastForward	*>>*
G#5	Instrument	
A5	Master	
A#5	Solo Defeat	
B5	Write	

MIDI Ch1	FunctionI Cubase	nfo
D#6	-	
E6	Previous	*(Layer 2)*
F6	Add	*(Layer 2)*
F#6	Next	*(Layer 2)*
F7	Scrub	

D5	Read	*Automation*
D#5	Write	*Automation*
E5	Sends	*Automation*
F5	Project	*Automation*
F#5	Mixer	*Automation*
G5	Motors	
E3	Name/Value	*Display*
F3	SMPTE/Beats	*Display*
F#3	F1	*Function*
G3	F2	*Function*
G#3	F3	*Function*
A3	F4	*Function*
A#3	F5	*Function*
B3	F6	*Function*
C4	F7	*Function*
C#4	F8	*Function*

D4	Group 1	*Layer 2 (Fader Groups)*
D#4	Group 2	*Layer 2 (Fader Groups)*
E4	Group 3	*Layer 2 (Fader Groups)*
F4	Group 4	*Layer 2 (Fader Groups)*
F#4	Group 5	*Layer 2 (Fader Groups)*
G4	Group 6	*Layer 2 (Fader Groups)*
G#4	Group 7	*Layer 2 (Fader Groups)*
A4	Group 8	*Layer 2 (Fader Groups)*

Logic Pro X

<<<<<<<<< **MCP MIDI Implementation** >>>>>>>>>

This is a list of supported standard MCP functions in Logic Pro X and their MIDI CC control values. Each CCtriggers the indicated function when the device is configured as an MCP device in the DAW. Buttons can be assigned a custom CC value usingiMap software.

MIDI Ch1	FunctionI Logic Pro X	nfoM
C1	Select 1	*Channel Select*
C#1	Select 2	*Channel Select*
D1	Select 3	*Channel Select*
D#1	Select 4	*Channel Select*
E1	Select 5	*Channel Select*
F1	Select 6	*Channel Select*

MIDI Ch1	FunctionI Logic Pro X	nfo
G#1	Encoder 1	*Press Encoder*
A1	Encoder 2	*Press Encoder*
A#1	Encoder 3	*Press Encoder*
B1	Encoder 4	*Press Encoder*
C2	Encoder 5	*Press Encoder*
C#2	Encoder 6	*Press Encoder*

MIDI Ch1	Function Logic Pro X	Info
F#-1	Rec 7	*Channel Rec*
G-1	Rec 8	*Channel Rec*
G#-1	Solo 1	*Channel Solo*
A-1	Solo 2	*Channel Solo*
A#-1	Solo 3	*Channel Solo*
B-1	Solo 4	*Channel Solo*
C0	Solo 5	*Channel Solo*
C#0	Solo 6	*Channel Solo*
D0	Solo 7	*Channel Solo*
D#0	Solo 8	*Channel Solo*
E0	Mute 1	*Channel Mute*
F0	Mute 2	*Channel Mute*
F#0	Mute 3	*Channel Mute*
G0	Mute 4	*Channel Mute*
G#0	Mute 5	*Channel Mute*
A0	Mute 6	*Channel Mute*
A#0	Mute 7	*Channel Mute*
B0	Mute 8	*Channel Mute*
A6	Stop	
A#6	Play	
B6	Record	*Main record*
C7	Cursor Up	*^*
C#7	Cursor Left	*<*
D#7	Zoom	
E7	Cursor Right	*>*
F7	Cursor Down	*v*
G6	Rewind	*<<*
G#6	Fast Forward	*>>*
G#5	Save	*QCon Pro X, B+ only*
A5	Undo	*QCon Pro X, B+ only*
A#5	Cancel	*QCon Pro X, B+ only*
B5	Enter	*QCon Pro X, B+ only*
D4	Global Tracks	*! Not mapped*
D#4	Global Inputs	*! Not mapped*
E4	Global Audio	*! Not mapped*
F4	Global Instrument	*! Not mapped*

MIDI Ch1	Function Logic Pro X	Info
A#2	Bank Up	*Bank 8 Channels*
B2	Bank Down	*Bank 8 Channels*
C3	Channel Up	*Bank One Channel*
C#3	Channel Down	*Bank One Channel*
D3	Flip	*Fader Flip Mode*
D#3	Global View	
A#4	Shift	
B4	Option	
C5	Control	*B+ Only*
C#5	Cmd	*DAW Mode*
C6	Marker	
C#6	Nudge	
D6	Cycle	
D#6	Drop	
E6	Replace	
F6	Click	
F#6	Solo	*Region Solo Mode*
D7	Scrub	
D5	Read	*Automation*
D#5	Write	*Automation*
E5	Trim	*Automation*
F5	Touch	*Automation*
F#5	Latch	*Automation*
G5	Group	
E3	Name/Value	*Display*
F3	SMPTE/Beats	*Display*
F#3	F1	*Function*
G3	F2	*Function*
G#3	F3	*Function*
A3	F4	*Function*
A#3	F5	*Function*
B3	F6	*Function*
C4	F7	*Function*
C#4	F8	*Function*
F#4	Global Aux	*! Not mapped*
G4	Global Bus	*! Not mapped*
G#4	Global Output	*! Not mapped*
A4	Global User	*! Not mapped*

Pro Tools HUI

<<<<<<<<< MCP MIDI Implementation >>>>>>>>>

This is a list of supported standard MCP functions in Pro Tools and their MIDI CC control values. Each CCtriggers the indicated function when the device is configured as an MCP device in the DAW. Buttons can be assigned a custom CC value usingiMap software.

MIDI Ch1	Functionl Pro Tools	nfoM
C1	Select 1	*Channel Select*
C#1	Select 2	*Channel Select*
D1	Select 3	*Channel Select*
D#1	Select 4	*Channel Select*
E1	Select 5	*Channel Select*
F1	Select 6	*Channel Select*
F#1	Select 7	*Channel Select*
G1	Select 8	*Channel Select*
C-1	Rec 1	*Channel Rec*
C#-1	Rec 2	*Channel Rec*
D-1	Rec 3	*Channel Rec*
D#-1	Rec 4	*Channel Rec*
E-1	Rec 5	*Channel Rec*
F-1	Rec 6	*Channel Rec*
F#-1	Rec 7	*Channel Rec*
G-1	Rec 8	*Channel Rec*
G#-1	Solo 1	*Channel Solo*
A-1	Solo 2	*Channel Solo*
A#-1	Solo 3	*Channel Solo*
B-1	Solo 4	*Channel Solo*
C0	Solo 5	*Channel Solo*
C#0	Solo 6	*Channel Solo*
D0	Solo 7	*Channel Solo*
D#0	Solo 8	*Channel Solo*
E0	Mute 1	*Channel Mute*
F0	Mute 2	*Channel Mute*
F#0	Mute 3	*Channel Mute*
G0	Mute 4	*Channel Mute*
G#0	Mute 5	*Channel Mute*
A0	Mute 6	*Channel Mute*
A#0	Mute 7	*Channel Mute*
B0	Mute 8	*Channel Mute*
A6	Stop	
A#6	Play	
B6	Record	*Main record*
C7	Cursor Up	^

MIDI Ch1	Functionl Pro Tools	nfo
G#1	Encoder 1	*Press Encoder*
A1	Encoder 2	*Press Encoder*
A#1	Encoder 3	*Press Encoder*
B1	Encoder 4	*Press Encoder*
C2	Encoder 5	*Press Encoder*
C#2	Encoder 6	*Press Encoder*
D2	Encoder 7	*Press Encoder*
D#2	Encoder 8	*Press Encoder*
E2	Pan	*Assignment*
F2	Plugin	*Assignment*
F#2	Assign	*Assignment*
G2	Send	*Assignment*
G#2	Input	
A2	Output	
A#2	Bank Up	*Bank 8 Channels*
B2	Bank Down	*Bank 8 Channels*
C3	Channel Up	*Bank One Channel*
C#3	Channel Down	*Bank One Channel*
D3	V-sel	
D#3	Insert	
A#4	Shift	*Add*
B4	Option	*All*
C5	Control	*Clutch*
C#5	Cmd	*Alt*
C6	In	*RTZ*
C#6	Out	*End*
D6	Cycle	*Pre*
D#6	Online	*Post*
E6	QPunch	
F6	Cue	*Mgr*
F#6	Suspend	
D7	Scrub	
F#3	F1	*Function*
G3	F2	*Function*
G#3	F3	*Function*
A3	F4	*Function*

MIDI Ch1	Function Pro Tools	Info
D7	Cursor Left	<
E7	Zoom	
D#7	Cursor Right	>
C#7	Cursor Down	v
D4	Read	Send A
D#4	Write	Send B
E4	Touch	Send C
F4	Latch	Send D
F#4	Trim	Send E
G4	Off	Shift
E3	Name/Value	Display
F3	SMPTE/Beats	Display
D5	Auto Enable	Fader
D#5	Auto Enable	Mute
E5	Auto Enable	Plugin
F5	Auto Enable	Pan

MIDI Ch1	Function Pro Tools	Info
A#3	F5	Function
B3	F6	Function
C4	F7	Function
C#4	F8	Function
G6	Rewind	<<
G#6	FastForward	>>
G#5	Save	
A5	Undo	
A#5	Escape	Cancel
B5	Enter	
F#5	Auto Enable	Send
G5	Auto Enable	Send Mute
G#4	Blank	Mute
A4	Default	Bypass

Ableton Live 10

<<<<<<<<< MCP MIDI Implementation >>>>>>>>>

This is a list of supported standard MCP functions in Ableton Live and their MIDI CC control values. Each CCtriggers the indicated function when the device is configured as an MCP device in the DAW. Buttons can be assigned a custom CC value usingiMap software.

MIDI Ch1	Function Ableton	Info
C1	Select 1	Channel Select
C#1	Select 2	Channel Select
D1	Select 3	Channel Select
D#1	Select 4	Channel Select
E1	Select 5	Channel Select
F1	Select 6	Channel Select
F#1	Select 7	Channel Select
G1	Select 8	Channel Select
C-1	Rec 1	Channel Rec
C#-1	Rec 2	Channel Rec
D-1	Rec 3	Channel Rec
D#-1	Rec 4	Channel Rec
E-1	Rec 5	Channel Rec
F-1	Rec 6	Channel Rec
F#-1	Rec 7	Channel Rec

MIDI Ch1	Function Ableton	Info
G#1	Encoder 1	Press Encoder
A1	Encoder 2	Press Encoder
A#1	Encoder 3	Press Encoder
B1	Encoder 4	Press Encoder
C2	Encoder 5	Press Encoder
C#2	Encoder 6	Press Encoder
D2	Encoder 7	Press Encoder
D#2	Encoder 8	Press Encoder
E2	I/O	Assignment
F2	Send	Assignment
F#2	Pan	Assignment
G2	Plugin	Assignment
G#2	Page Up	Assignment
A2	Page Down	Assignment
A#2	Bank Up	Bank 8 Channels

MIDI Ch1	Function Ableton	Info
G-1	Rec 8	*Channel Rec*
G#-1	Solo 1	*Channel Solo*
A-1	Solo 2	*Channel Solo*
A#-1	Solo 3	*Channel Solo*
B-1	Solo 4	*Channel Solo*
C0	Solo 5	*Channel Solo*
C#0	Solo 6	*Channel Solo*
D0	Solo 7	*Channel Solo*
D#0	Solo 8	*Channel Solo*
E0	Mute 1	*Channel Mute*
F0	Mute 2	*Channel Mute*
F#0	Mute 3	*Channel Mute*
G0	Mute 4	*Channel Mute*
G#0	Mute 5	*Channel Mute*
A0	Mute 6	*Channel Mute*
A#0	Mute 7	*Channel Mute*
B0	Mute 8	*Channel Mute*
A6	Stop	
A#6	Play	
B6	Record	*Main record*
C7	Cursor Up	*^*
D7	Cursor Left	*<*
E7	Zoom	
D#7	Cursor Right	*>*
C#7	Cursor Down	*v*
D5	Session/Arrange	*Automation*
D#5	Track/Clip	*Automation*
E5	Undo	*Automation*
F5	Browser	*Automation*
F#5	Clip Detail	*Automation*
G5	Redo	
E3	Meter	*Display*
F3	SMPTE/Beats	*Display*
D4	F9	*Layer 2 (Function)*
D#4	F10	*Layer 2 (Function)*
E4	F11	*Layer 2 (Function)*
F4	F12	*Layer 2 (Function)*

MIDI Ch1	Function Ableton	Info
B2	Bank Down	*Bank 8 Channels*
C3	Channel Up	*Bank One Channel*
C#3	Channel Down	*Bank One Channel*
D3	Flip	*Fader Flip Mode*
D#3	Returns	
A#4	Shift	
B4	-	*Option*
C5	-	*Control*
C#5	-	*Alt*
C6	Previous	*Marker*
C#6	Next	*Marker*
D6	Cycle	
D#6	Punch In	
E6	Punch Out	
F6	Start	
F#6	End	
F7	Scrub	
F#3	F1	*User Function*
G3	F2	*User Function*
G#3	F3	*User Function*
A3	F4	*User Function*
A#3	F5	*User Function*
B3	F6	*User Function*
C4	F7	*User Function*
C#4	F8	*User Function*
G6	Rewind	*<<*
G#6	FastForward	*>>*
G#5	Back To Arrange	*Automation*
A5	Draw	*Automation*
A#5	Marker	
B5	Follow	
F#4	F13	*Layer 2 (Function)*
G4	F14	*Layer 2 (Function)*
G#4	F15	*Layer 2 (Function)*
A4	F16	*Layer 2 (Function)*

AppendixC

Cubase

Mackie Control mode function table (Nuendo/Cubase - PVC Overlay)

Controller	Function
Channel Strip	
Encoder 1 - 8 (Rotate) Use with button Pan, EQ, Inserts, Master, FX Sen & Por drive III	Adjust parameters of channel 1-8 according to selected function (Pan, EQ, Inserts, Master, FX Send & Por drive III) Press the desired function and rotate the channel knob
Encoder 1 - 8 (Enter) Use with button Pan, EQ, Inserts, Master, FX Sen & Por drive III	Adjust parameters of channel 1-8 according to selected function (Pan, EQ, Inserts, Master, FX Sen & Por drive III) Press the desired function and press the channel knob
Fader 1-8	Adjusting correspodance channel volume
Fader M	Adjusting Master channel volume
Button "(Explorer)" 1-8	Select track correspondently
Button "M" 1-8	Activate/inactivate "Mute" function of the correspondance track
Button "S" 1-8	Activate/inactivate "Solo" function of the correspondance track
Button "(dot)" 1-8	Activate/inactivate "Record" function of the correspondance track
Channel and fader control	
Button "Motor"	
Button "Lock"	Lock all the faders
Button "Flip"	Swap the control for the faders and the rotary encoder knobs
Button "Track <"	Shift one channel up for all the faders except the master fader
Button "Track >"	Shift one channel down for all the faders except the master fader
Button "Bank <"	Shift eight channel up for all the faders except the master fader
Button "Bank >"	Shift eight channel down for all the faders except the master fader
Transport	
Button “(Loop)“	Activate the loop function
Button "<<"	Activate the rewind function
Button ">>"	Activate the fast forward function
Button "(Stop)"	Activate the stop function
Button "(Play)"	Activate the play function
Button "(Rec)"	Activate the record function
User define function	
Button "Shift" (Use with F1-F8 buttons)	Press to use F1-F8 buttons as F9-F16 correspondently
Button "F1-F8"	Self define function
Assignment	
Button "Pan" (Use with 1-8 encoders)	Please refer to "Encoder 1-8 (Rotate & Enter)"
Button "EQ" (Use with 1-8 encoders)	Please refer to "Encoder 1-8 (Rotate & Enter)"
Button "Inserts" (Use with 1-8 encoders)	Please refer to "Encoder 1-8 (Rotate & Enter)"
Button "Master" (Use with 1-8 encoders)	Please refer to "Encoder 1-8 (Rotate & Enter)"
Button "FX Send" (Use with 1-8 encoders)	Please refer to "Encoder 1-8 (Rotate & Enter)"
Button "Por drive III i" (Use with 1-8 encoders)	Please refer to "Encoder 1-8 (Rotate & Enter)"

Button"Page Up <<"	Flip page backward for the above functions
Button "Page Down>>"	Flip page forward for the above functions
Window control	
Button "Mixer"	Switch to mixer window
Utilities	
Button "Edit"	Activate the edit function to edit the track
Button "Undo"	Activate the undo function to undo the last command
Button "Redo"	Activate the redo function to redo the last command
Button "Save"	Activate the save function
Button "Punch"	Activate the punch function
Button "Left"	Jump to the left most of a loop
Button "Right"	Jump to the far right of a loop
Marker controls	
Button "Prev."	Jump to previous marker point from the current position
Button "Add"	Add a marker point at the current position
Button "Next"	Jump to next marker point from the current position
Automation	
Button "Read"	Activate the read function for automation
Button "Write"	Activate the write function to write a automation track
Navigation	
Jog wheel (Rotate)	Scrolling the play-line forward & backward
Button L/R	Selecting between tracks
Button Up/Down	Selecting track vertically
Buttons "Zoom" + "L/R"	Zoom in/out track horizontally
Buttons "Zoom" + "Up/Down"	Zoom in/out track vertically

Logic Pro X

Mackie Control mode function table (Logic Pro)

Controller	Function
Channel Strip	
"Encoder 1 - 8 (Rotate) Use with button Track, Pan/Surround, EQ, Send, Plug-in & Inst."	Adjust parameters of channel 1-8 according to selected function (Track, Pan/Surround, EQ, Send, Plug-in & Inst)
"Encoder 1 - 8 (Enter) Use with button Track, Pan/Surround, EQ, Send, Plug-in & Inst."	Adjust parameters of channel 1-8 according to selected function (Track, Pan/Surround, EQ, Send, Plug-in & Inst)
Fader 1-8	Adjusting correspodance channel volume
Fader M	Adjusting Master channel volume
Button "(Explorer)" 1-8	Select track correspondently
Button "M" 1-8	Activate/inactivate "Mute" function of the correspondance track
Button "S" 1-8	Activate/inactivate "Solo" function of the correspondance track
Button "(dot)" 1-8	Activate/inactivate "Record" function of the correspondance track
Channel and fader control	
Button "Lock"	Lock all the faders
Button "Flip"	Swap the control for the faders and the rotary encoder knobs
Button "Track <"	Shift one channel up for all the faders except the master fader
Button "Track >"	Shift one channel down for all the faders except the master fader

Button "Bank <"	Shift eight channel up for all the faders except the master fader
Button "Bank >"	Shift eight channel down for all the faders except the master fader
Transport	
Button “(Loop)“	Activate the loop function of the DAW
Button "<<"	Activate the rewind function of the DAW
Button ">>"	Activate the fast forward function of the DAW
Button "(Stop)"	Activate the stop function of the DAW
Button "(Play)"	Activate the play function of the DAW
Button "(Rec)"	Activate the record function of the DAW
User define function	
Button "Shift"	Additional function for different controls
Button "F1-F8"	Self define functions at Logic
View controls	
Button "Global View"	Activate to enter into Global View mode. Use in conjuction with the below 8 different views buttons to swicth between different window views
Button "MIDI Tracks"	Press to lauch the MIDI tracks window view
Button "Inputs"	Press to lauch the Inputs window view
Button "Audio Tracks"	Press to lauch the Audio tracks window view
Button "Audio Inst"	Press to lauch the Audio Inst window view
Button "Aux"	Press to lauch the Aux window view
Button "Busses"	Press to lauch the Busses window view
Button "Outputs"	Press to lauch the Outputs window view
Button "User"	Press to lauch the User window view
Effect/Channel control	
Button "Track"	Activate the "Track" function and use in conjuction with all the knobs
Button "Pan/Surround"	"Press button: Activate Pan/Surround function Rotate knob: Adjust pan/surround parameters Press knob (enter): Center value"
Button "EQ"	"Press button: Lauch selected channel's EQ function panel Rotate knob: Adjust EQ parameters Press knob (enter): Reset to default value"
Button "Send"	"Press button: Activate Send function Rotate knob: Adjust sending bus Press knob (enter): Confirm selected bus "
Button "Plug-in"	"Press button: Lauch selected channel's Plug-in function panel Rotate knob: Adjust plug-in parameters Press knob (enter): Reset to default value"
Button "Instrument"	"Press button: Lauch selected channel's Instrument function panel Rotate knob: Adjust Instructment parameters Press knob (enter): Reset to default value"
Automation	
Button "Group"	Activate the group function of the selected channel
Button "Read/Off"	Activate the read function of the selected channel
Button "Write"	Activate the write function of the selected channel
Button "Touch"	Activate the touch function of the selected channel
Button "Latch"	Activate the latch function of the selected channel

Button "Trim"	Activate the trim function of the selected channel
Utilities	
Button "Marker"	Make a marker point along a project
Button "Nudge"	Activate the nudge function
Button "Click"	Activate the metronome click sound
Button "Drop"	Activate the drop function
Button "Replace"	Activate the replace mode (A type of overwrite recording mode where the existing audio regions in a section of the Tracks area are replaced by a new recording
Button "Solo"	Activate the solo tool that allow you to play a region or event in isolation
Button "Save"	Activate the save function to save your project
Button "Undo"	Activate the undo function to undo the last command
Button "Cancel"	Activate the cancel function to cancel the current command
Button "Enter"	Activate the enter function
Navigation	
Jog wheel (Rotate)	Scrolling the play-line forward & backward
Button L/R	Selecting between tracks
Button Up/Down	Selecting track vertically
Zoom + Button Up/Down	Zoom in and out of the track

ProTools HUI

HUI mode function table (Pro Tool - PVC Overlay)

Function	Control sequency [xxxx] = Button (xxxx) = Knob
Navigation	
Page up (Shift 8 channels up)	Press [Bank <<8 ⑤⓪]
Page down (Shift 8 channel down)	Press [Bank 8>> ⑤①]
Track up (Shift one channel up)	Press [Channel < ④⑧]
Track up (Shift one channel down)	Press [Channel > ④⑨]
Assign a Send	
Assign Send A (e.g. Send A on channel 1)	Press [Assign ①③] - Press [Send A ②①] - Rotate (Channel 1 Knob)
Assign Send B (e.g. Send B on channel 2)	Press [Assign ①③] - Press [Send B ②②] - Rotate (Channel 2 Knob)
Assign Send C (e.g. Send C on channel 3)	Press [Assign ①③] - Press [Send C ②③] - Rotate [Channel 3 Knob)
Assign Send D (e.g. Send D on channel 4)	Press [Assign ①③] - Press [Send D ②④] - Rotate [Channel 4 Knob)
Assign Send E (e.g. Send E on channel 5)	Press [Assign ①③] - Press [Send E ②⑤] - Rotate [Channel 5 Knob)
Adjust the send level (e.g. Send A level on Ch. 1)	Press [Assign ①③] - Press [Send A ②①] - Rotate (Channel 1 Knob) to adjust the level
Assign Plug-in	
Adding a plug-in to a track's slot1-4 (e.g. xx to Ch.1 / Plug-in slot 1)	Press [Sel] on Ch.1 - Press [Plug-in ①⑥] - Press (Knob 1-4) to select the slot 1-4 - Press [Plug-in Assign] - Rotate (Knob) to select plug-in - Press [Plug-in Assign] to exit *{Tip: Press (Knob 5) to exit in any state)*

Adding a plug-in to a track's slot 5 (e.g. to Ch.1 / Plug-in slot 5)	Press [Sel] on Ch.1 - Press [Plug-in⑯] - Rotate (the 5th Knob) to turn page - Press (Knob 1-4) to select the slot 1-4 - Press [Plug-in Assign] - Rotate (Knob) to select plug-in - Press [Plug-in Assign] to exit {Tip: Press (Knob 5) to exit in any state)
Edit a plug-in (e.g. Plug-in on Ch. 1 / Plug-in slot 2)	Press [Sel] on Ch.1 - Press [Plug-in⑯] - Press (Knob 2) - Rotate (Knob) to adjust parameters - Press (Knob 5) to exit
Automation	
Activate the Read function of the automation on the selected channel (e.g. Ch.1 Read function)	Press and hold [Read⑦] - Press (Channel 1 Knob)
Activate the Write function of the automation on the selected channel (e.g. Ch.1 Write function)	Press and hold [Write⑧] - Press (Channel 1 Knob)
Activate the Touch function of the automation on the selected channel (e.g. Ch.1 Touch function)	Press and hold [Touch⑨] - Press (Channel 1 Knob)
Activate the Latch function of the automation on the selected channel (e.g. Ch.1 Latch function)	Press and hold [Write⑩] - Press (Channel 1 Knob)
Activate the Trim function of the automation on the selected channel (e.g. Ch.1 Trim function)	Press and hold [Trim⑪] - Press (Channel 1 Knob)
Turn Off the automation of the selected channel (e.g. Ch.1 Latch function)	Press and hold [Off⑩] - Press (Channel 1 Knob)
Suspen the automation of the selected channel (e.g. Ch.1 Suspend function)	Press and hold [Off⑩] - Press (Channel 1 Knob)
Channel Strip	
Activate the Channel Rec function	Press [Channel Rec] of the selected channel
Activate the Channel Solo function	Press [Channel Solo] of the selected channel
Activate the Channel Mute function	Press [Channel Mute] of the selected channel
Select a Channel	Press [Channel Sel] or touch the (Channel Fader cap)
Control buttons	
Channel Pan (Mono track)	Press [Pan⑮], it light - Rotate the correspondance channel (Knob 1-8)
Channel Pan (Stereo track)	Press [Pan⑮] twice, it flashs - Rotate the correspondance channel (Knob 1-8)
Windows buttons	
Opens or Closes the Edit window	Press [Edit㉖]
Opens or Closes the Mix window	Press [Mix⑳]
Modifiers	
Extends the edit selection's region boundary (Zoom mode off)	Press [Shift②] - Press [<<㊶] or [>>㊸]
Extends the selection to the previous or next track	Press [Shift②] - Press [㊵] or [㊹]
Centers the left or right side of the on-screen waveform selection in the Edit window	Press [Option④] - Press [<<㊶] or [>>㊸]
Removes the selection from the topmost or bottommost track	Press [Option④] - Press [㊵] or [㊹]

Disengage a fader from any Mix group. Relase the button and the fader obeys group behavior again. Used to offset a fader's level within a group	Press [Ctrl ③]
Scolls the frontmost window to the left or right	Press [Cmd ①] - Press [<< 41] or [>> 43]
Scolls the frontmost window upward or downward	Press [Cmd ①] - Press [40] or [44]
Utilities	
Save the project	Press [Save 33] twice
Undo the last edit operation	Press [Undo 34]
Abort or exit a process	Press [Esc 14]
Defines a memory location or marker during playback or recording	Press [Enter 35]
Transport buttons	
Set Edit selection "In" point to the current locator position	Press [IN 27]
Set Edit selection "Out" point to the current locator position	Press [Out 28]
Activate the Rewind function	Press [Rewind 30]
Activate the Loop function	Press [Loop 31]
Activate the Fastforward function	Press [Fastforward 32]
Activate the Record function	Press [Rec 36]
Activate the Play function	Press [Play 37]
Activate the Stop function	Press [Stop 38]
Jog Wheel & Scrub button	
Swicthing the Jog wheel function from Scrub to Shuttle	Press [Scrub 39] (Toggles squency: Scrub - Shuttle - Off)
Scrubs or Shuttles forward	Rotate (Jog wheel) clockwise
Scrubs or Shuttles backward	Rotate (Jog wheel) anti-clockwise
Zoom & Navigation buttons	
Navigation mode (Zoom/42 button is off)	
Navigation arrow	Rotate (Jog Wheel)
Moves the edit cursor to the previous region boundary or sync point	Press [<< 41]
Moves the edit cursor to the next region boundary or sync point	Press [<< 43]
Mark-in & mark-out controls	Press [40] & [44] or [IN 27] & [Out 28]
Zoom mode (Press Zoom/42 once to enter: light)	
Decreases the horizontal zoom	Press [<< 41]
Increases the horizontal zoom	Press [<< 43]
Decreases the vertical zoom	Press [40]
Increases the vertical zoom	Press [44]
Selection mode (Press Zoom/42 twice to enter: Flash)	
Adjust the selection "In" point for making a selection	Press & hold [<< 41] - Rotate the (Jog wheel)
Adjust the selection "Out" point for making a selection	Press & hold [>> 43] - Rotate the (Jog wheel)
Positions the cursor at the current selection's left edge	Press twice [<< 41]

Positions the cursor at the current selection's right edge	Press twice [>>㊸]
Moves the selection to the previous track	Press [㊵]
Moves the selection to the next track	Press [㊹]

Ableton Live 10

Mackie Control mode function table (Abelton Live - PVC Overlay)

Controller	Function
Channel Strip	
Encoder 1 – 8 (Rotate)	Channel 1-8 pan
Encoder 1 – 8 (Enter)	Only use in conjuction with some functions
Fader 1-8	Adjusting correspodance channel volume
Fader M	Adjusting Master channel volume
Button "(Explorer)" 1-8	Select track correspondently
Button "M" 1-8	Activate/inactivate "Mute" function of the correspondance track
Button "S" 1-8	Activate/inactivate "Solo" function of the correspondance track
Button "(dot)" 1-8	Activate/inactivate "Record" function of the correspondance track
Fader controls	
Button "Lock"	Lock all the faders
Button "Flip"	Swap the control for the faders and the rotary encoder knobs
Button "Track <"	Shift one channel up for all the faders except the master fader
Button "Track >"	Shift one channel down for all the faders except the master fader
Button "Bank <"	Shift eight channel up for all the faders except the master fader
Button "Bank >"	Shift eight channel down for all the faders except the master fader
Transport	
Button “(Loop)“	Activate the loop function
Button "<<"	Activate the rewind function
Button ">>"	Activate the fast forward function
Button "(Stop)"	Activate the stop function
Button "(Play)"	Activate the play function
Button "(Rec)"	Activate the record function
Controls / Functions	
Button "View Selector"	Press to switch between "Session view" and "Arrangement view"
Button "Track/Clip view"	Press to switch between "Track view" and "Clip view"
Button "Show/Hide browser"	Press to show or hide the left browser section
Button "Show/Clip detail"	Press to expand the Clip view area by hiding the effect section
Marker controls	
Button "Prev."	Jump to previous marker point from the current position
Button "Add"	Add a marker point at the current position
Button "Next"	Jump to next marker point from the current position
Assignment	
Button "I/O"	Press to activate the "I/O" fuction, use in conjuction with the channel knobs to adjust the audio destination for the "Audio To" setting
Button "Pan"	Press to activate the "Pan" function, use in conjuction with the channel knobs to adjust each channel pan value

Button "Send"	Press to activate the "Send" function and rotate the correspodance channel knob to adjust the Send A and Send B value
Button "Instrument Rack"	Only effect on "Instructment track". Press the Instructment Rack button and then the first channel knob to enter to adjsutment setting. Rotate channel knobs 1-8 to adjust the Marco1-8 values
Button "Return Track"	Activate to control the Return tracks
Navigation	
Jog wheel (Rotate)	"Session view: Scrollling through the clips up and down Arrangement view: Scrolling the play-line forward & backward"
Buttons "Zoom" + "L/R"	"Session view: Zoom button could not be activtaed Arrangement view: Zoom in/out track horizontally"
Buttons "Zoom" + "Up/Down"	"Session view: Zoom button could not be activtaed Arrangement view: Zoom in/out track horizontally"

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