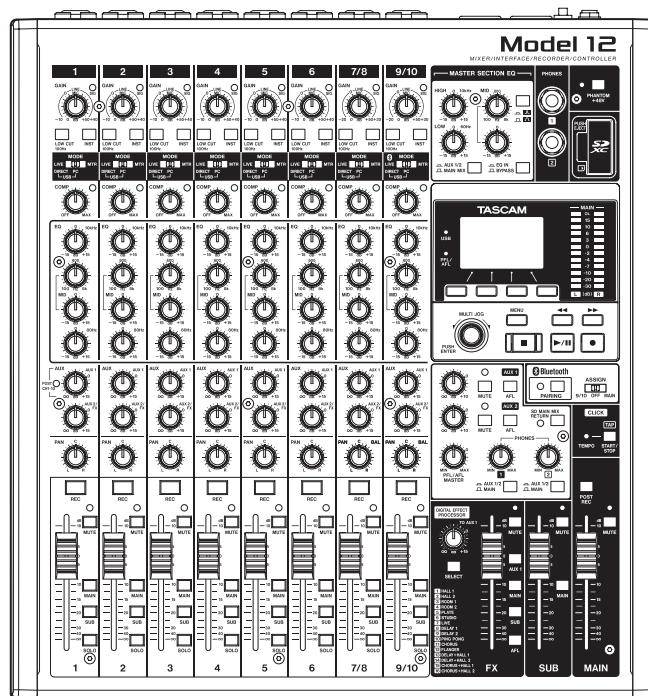


TASCAM

Model 12

Multitrack Recording Console

DAW Control Mode Manual



Introduction

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Overview

The Model 12 has DAW control functions. By setting it to DAW control mode, its controls can be used for basic operation of the DAW application. This includes fader operation, muting, panning, soloing, recording, playing, stopping and other transport functions.

Mackie Control (MCU) and HUI protocol emulation are supported, so Cubase, Digital Performer, Logic, Live, Pro Tools, Cakewalk and other major DAW applications can be controlled.

Trademarks

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- Microsoft and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.
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- Cubase are registered trademarks of Steinberg Media Technologies GmbH.
- Cakewalk is a registered trademark are trademarks of BandLab Technologies Inc.
- Other company names, product names and logos in this document are the trademarks or registered trademarks of their respective owners.

Model 12 operations

Preparing the unit

Audio when in DAW control mode

When in DAW control mode, only audio input through Model 12 channels 1-2 can be heard.

Make the following settings as necessary.

- To control the DAW while listening to the DAW master audio through this unit, set the MODE switch for channels 1-2 on the Model 12 to "PC" and set the DAW master audio output to these channels.
- On the MTR/USB SEND POINT screen, set to any setting other than "PRE COMP" (default value). To send channel 1-2 LIVE input from this unit to the computer, set the MODE switch to "LIVE" (this disables monitoring of sound from the DAW).

NOTE

The state of the audio sent to the computer differs according to the MTR/USB SEND POINT screen setting. See "MTR/USB SEND POINT screen settings" on page 4 for details.

Connecting with a Computer

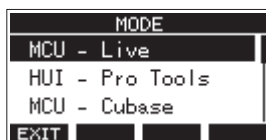
Refer to "Connecting a computer" in "3 – Preparation" of the Model 12 Owner's Manual, and connect to a computer.

Refer also to "12 – USB audio interface functions" and make settings.

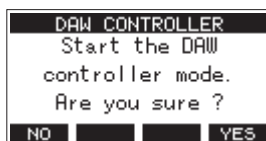
Starting DAW control mode

1. Set the channel 1-2 MODE switch on the Model 12 according to use.
2. When the Model 12 recorder is stopped, select DAW CONTROLLER on the MENU Screen, and open the MODE Screen.

For operation instructions, see "Menu operation procedures" in "2 – Names and Functions of Parts" of the Owner's Manual.



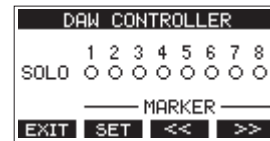
3. Select the control mode for the DAW being used.
For details about settings, see the manual of the DAW application being used.
Options: MCU - Live, HUI - Pro Tools, MCU - Cubase, MCU - Cakewalk, MCU - Logic, MCU - DP, MCU - Cubasis, MCU - Studio One, MCU - Reaper
4. Press the MULTI JOG dial.
A confirmation message will appear.



NOTE

Press the **F1 NO** button to return to the MODE Screen.

5. Press the **F4 YES** button.
This opens the DAW CONTROLLER screen and enables DAW operation.



NOTE

- Immediately after connecting with the DAW as well as after settings have been made in the DAW, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.
- If the unit is turned off while in DAW control mode, it will still be in DAW control mode when restarted. To use it in ordinary mode, end DAW control mode with the **F1 EXIT** button.

Ending DAW control mode

1. Press the **F1 EXIT** button to open the following message.



2. Press the **F4 YES** button to end DAW control.

Model 12 operations

MTR/USB SEND POINT screen settings

The audio sent by USB depends on the Model 12 MODE switch settings and the MTR/USB SEND POINT screen settings. For details about the MTR/USB SEND POINT screen settings, see “Selecting the positions that recording signals are sent from each channel” under “Mixer functions” in the “9 – Other functions” chapter of the Owner’s Manual.

MTR/USB SEND POINT	COMP	EQ	MODE switch	Audio sent to computer
PRE COMP	Disabled	Disabled	LIVE	Sound from input jacks is sent.
			PC	Sound from input jacks is sent.
			MTR	Sound from input jacks is sent.
POST COMP	Enabled	Disabled	LIVE	Sound from input jacks is sent.
			PC	Sound from computer is sent.
			MTR	No sound is sent.
POST EQ	Enabled	Enabled	LIVE	Sound from input jacks is sent.
			PC	Sound from computer is sent.
			MTR	No sound is sent.

NOTE

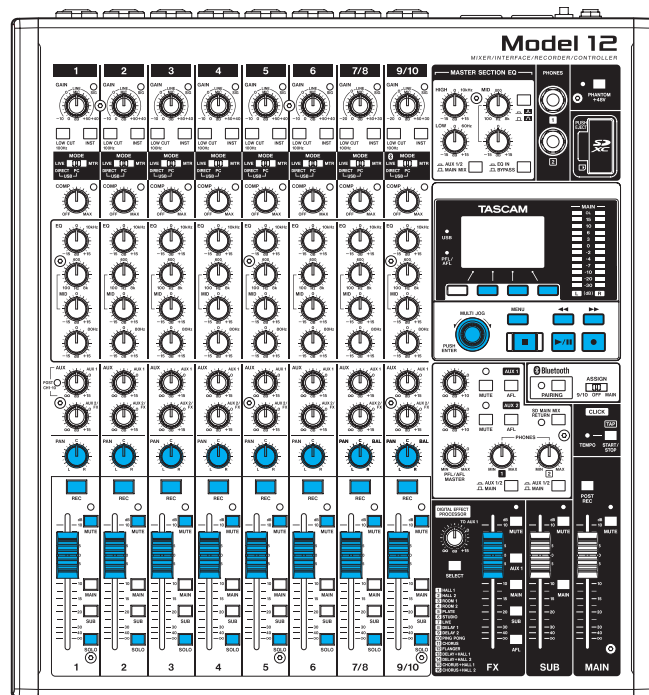
Regardless of the above settings, COMP/EQ is enabled for sound from the computer.

Mixer controls that can be used when in DAW control mode

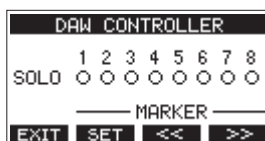
The following Model 12 controls can be used when in DAW control mode.

- The blue knobs, switches and faders in the illustration below are enabled.

FX fader	This operates the DAW master fader.
MULTI JOG dial	This can be used for locating.
Function buttons	Their functions depend on what is shown on the DAW CONTROLLER screen. Press the MENU button to switch function button operations.



DAW CONTROLLER MARKER screen



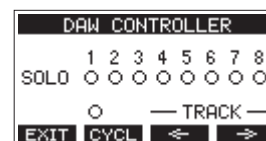
- Use the **F2 SET** button to set markers.
- Use the **F3 <<** and **F4 >>** buttons to move between markers.

NOTE

The status of the DAW application SOLO switch is shown by the SOLO item on the DAW CONTROLLER screen.

- : SOLO switch off
- : SOLO switch on

DAW CONTROLLER TRACK screen



- Press the **F2 CYCL** button to change the DAW repeat function.
- Use the **F3 <** and **F4 >** buttons to move among tracks that can be controlled.

ATTENTION

After changing the tracks that can be controlled, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.

Model 12 operations

USB audio input and output when in DAW control mode

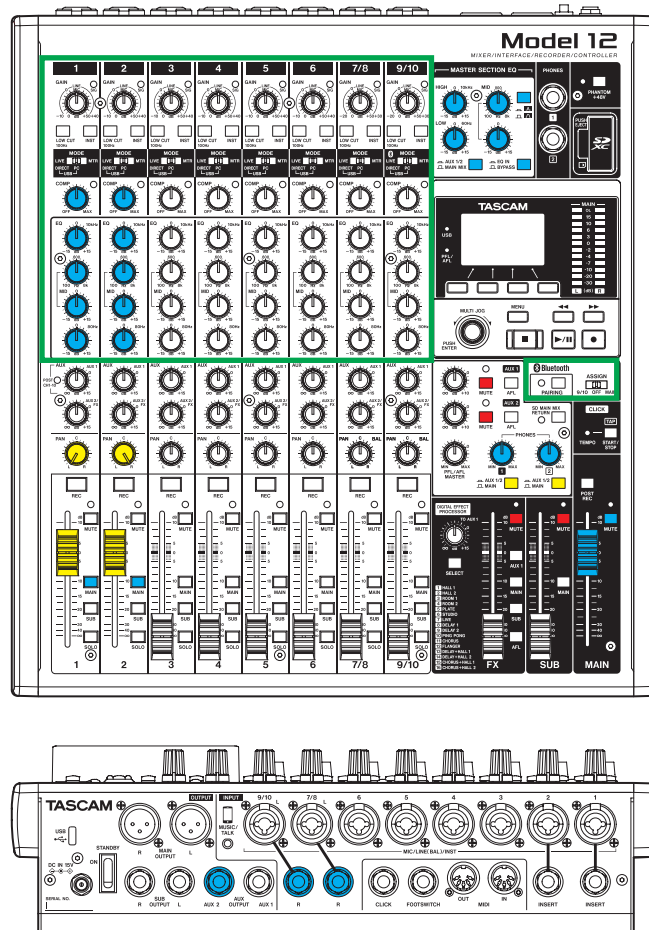
When in DAW control mode, only audio input through Model 12 channels 1-2 can be heard.

By setting Model 12 channels 1-2 as the outputs for the DAW master audio, the sound can be monitored with the Model 12 while operating the DAW.

The following Model 12 controls can be used when in DAW control mode.

- The knobs, switches and buttons inside the green frame in the illustration below are enabled for sound sent to the computer.
- The blue knobs, switches and faders in the illustration below are enabled for sound from the computer.
- Regardless of operation, the red switches in the illustration below are always on
- Regardless of operation, the yellow knobs, switches and faders in the illustration below are fixed to the following settings for sound from the computer

PAN knob (1-2)	Regardless of knob operation, channels 1 and 2 are always L and R, respectively.
Channel faders (1-2)	Regardless of fader operation, these are always 0 dB.
AUX 1/2/MAIN switches	Regardless of switch operation, these are always MAIN.



NOTE

- If the unit is turned off while in DAW control mode, it will still be in DAW control mode when restarted.
- To use it in ordinary mode, end DAW control mode with the **F1 EXIT** button.

Making various DAW application settings

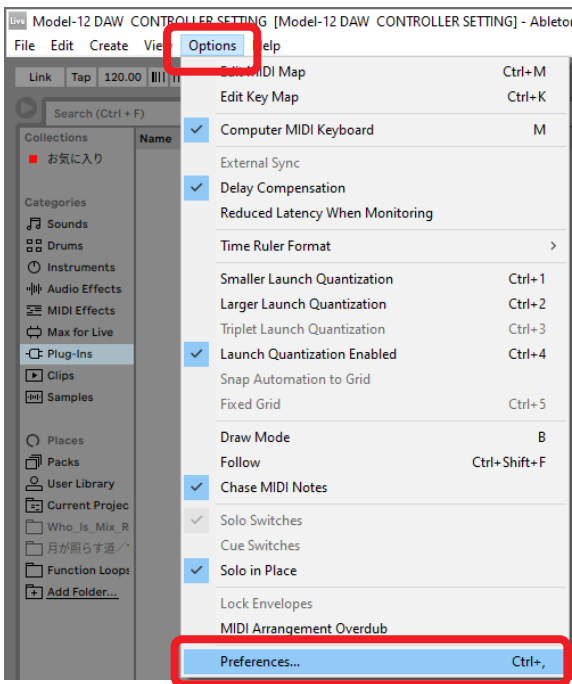
To enable the reception of messages from the DAW application, first put the Model 12 into DAW control mode and then set the DAW application.

Live

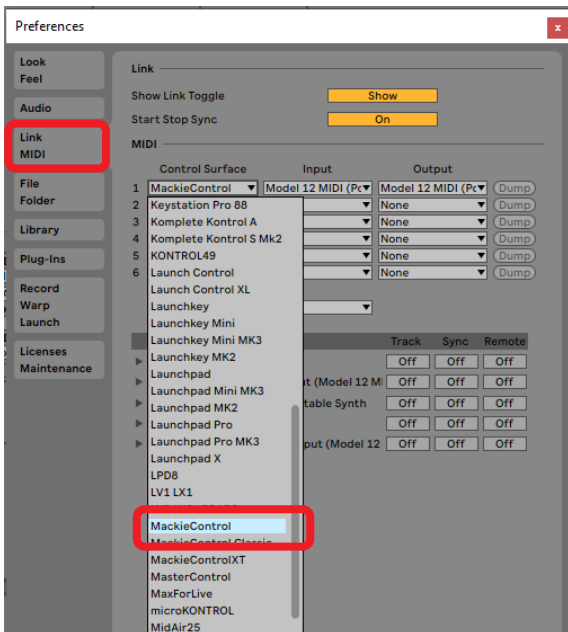
Windows

The following screens are from Live version 10.1.6.

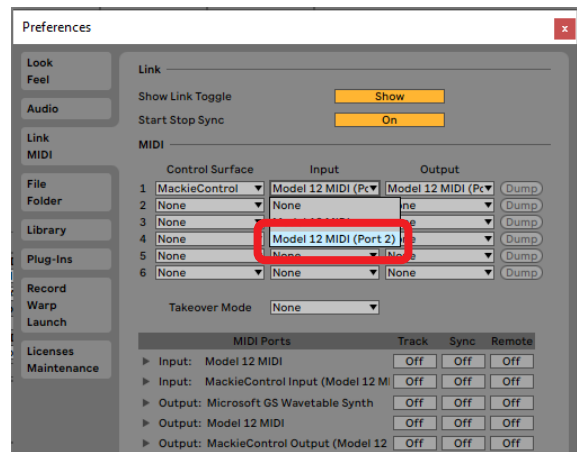
1. Click "Options" > "Preferences..."



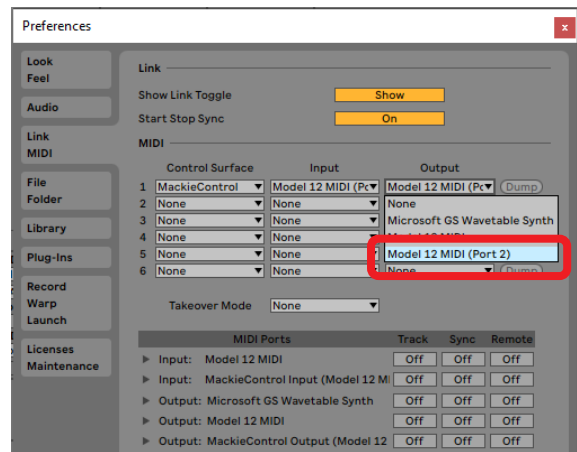
2. Select the "Link MIDI" tab, and set the Control Surface to "MackieControl".




3. Set the input to "Model 12 MIDI (Port 2)".



4. Set the output to "Model 12 MIDI (Port 2)".



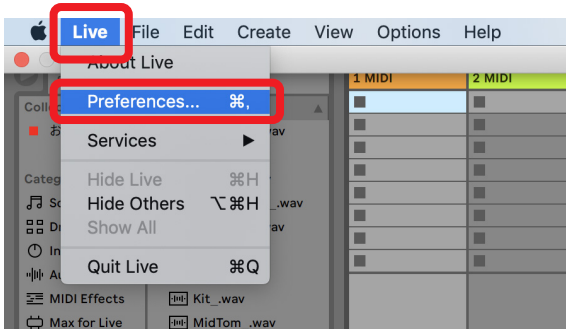
The  button on the Model 12 will light, showing that remote control is enabled.

Making various DAW application settings

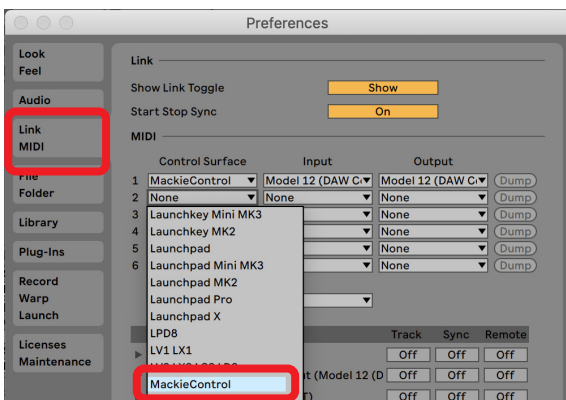
Mac

The following screens are from Live version 10.1.7.

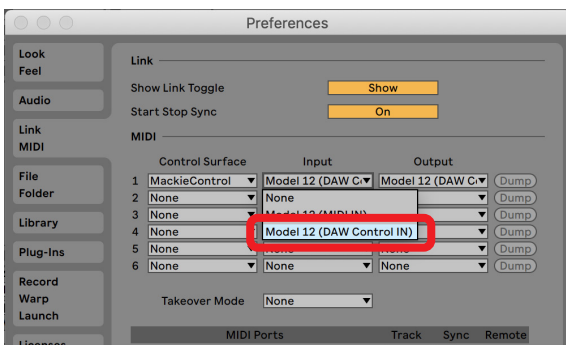
1. Click "Live" > "Preferences..."



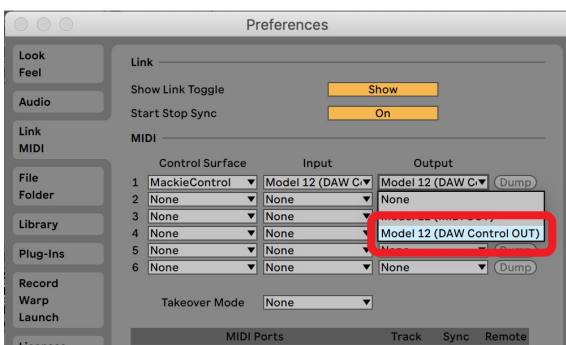
2. Select the "Link MIDI" tab, and set the Control Surface to "MackieControl".



3. Set the input to "Model 12 MIDI (DAW Control IN)".



4. Set the output to "Model 12 (DAW Control OUT)".



The ■ button on the Model 12 will light, showing that remote control is enabled.

Controls that can be used with the DAW

The following Model 12 controls can be used to operate the DAW application.

- F2 **SET** button (DAW CONTROLLER MARKER screen)
- F3 **<<<** button (DAW CONTROLLER MARKER screen)
- F4 **>>>** button (DAW CONTROLLER MARKER screen)
- F2 **CYCL** button (DAW CONTROLLER TRACK screen)
- F3 **<** button (DAW CONTROLLER TRACK screen)
- F4 **>** button (DAW CONTROLLER TRACK screen)
- MULTI JOG dial (locate function)
- **<<</>>>** buttons
- **■** button
- **▶/||** button
- **●** button
- PAN knobs (1-6, 7/8-9/10)
- REC buttons (1-6, 7/8-9/10)
- MUTE switches (1-6, 7/8-9/10)
- SOLO switches (1-6, 7/8-9/10)
- Channel faders (1-6, 7/8-9/10)
- FX fader (master fader control)

ATTENTION

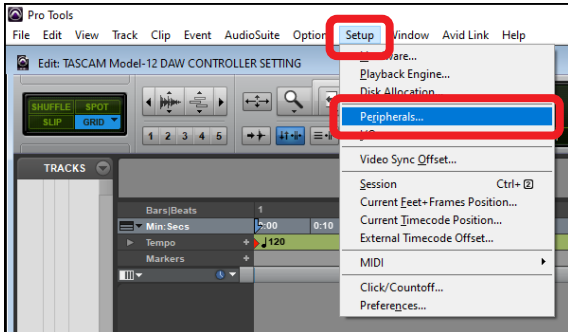
Immediately after connecting with the DAW as well as after settings have been made in the DAW, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.

Making various DAW application settings

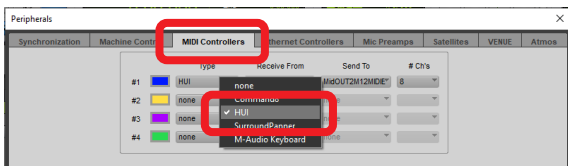
Pro Tools

The following screens are from Pro Tools 12 Ultimate version 2019.12.

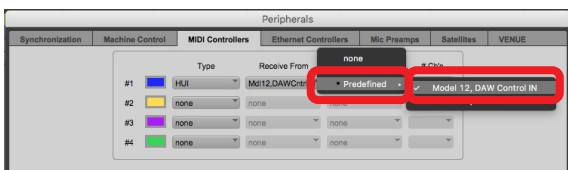
1. Click "Setup" > "Peripherals..."



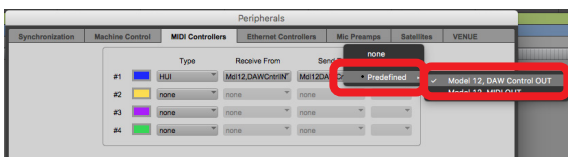
2. Select the "MIDI Controllers" tab, and set the Type to "HUI".



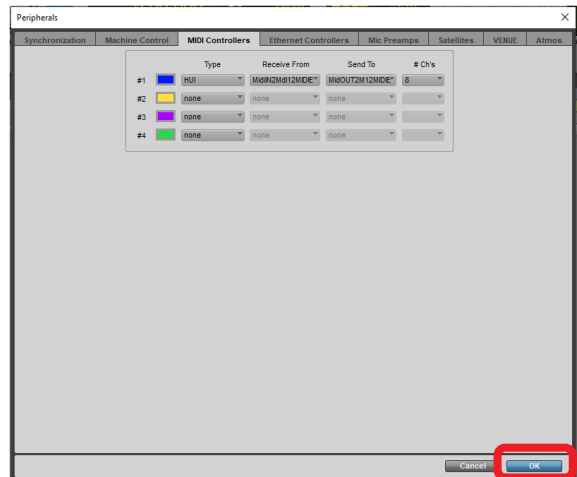
3. Set Receive From to "Model 12, DAW Control IN".
On a Mac, set it to "Model 12 MIDI DAW Control IN".



4. Set Send To to "Model 12, DAW Control OUT".
On a Mac, set it to "Model 12 DAW Control OUT".



5. Click "OK".



The ■ button on the Model 12 will light, showing that remote control is enabled.

Controls that can be used with the DAW

The following Model 12 controls can be used to operate the DAW application.

- F2 **SET** button (DAW CONTROLLER MARKER screen)
- F2 **CYCL** button (DAW CONTROLLER TRACK screen)
- F3 **◀▶** button (DAW CONTROLLER TRACK screen)
- F4 **↔** button (DAW CONTROLLER TRACK screen)
- MULTI JOG dial (locate function)
- ◀▶/▶▶ buttons
- ■ button
- ▶/|| button
- ● button
- PAN knobs (1-6, 7/8-9/10)
- REC buttons (1-6, 7/8-9/10)
- MUTE switches (1-6, 7/8-9/10)
- SOLO switches (1-6, 7/8-9/10)
- Channel faders (1-6, 7/8-9/10)

ATTENTION

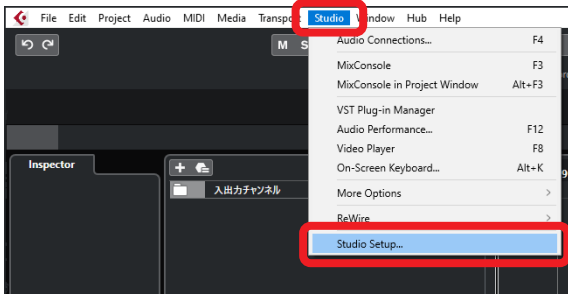
Immediately after connecting with the DAW as well as after settings have been made in the DAW, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.

Making various DAW application settings

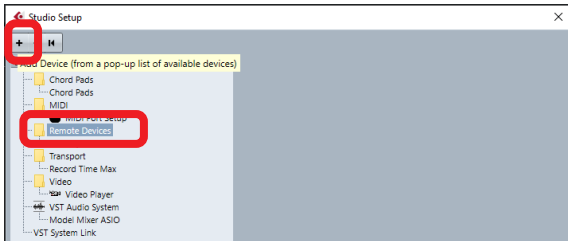
Cubase

The following screens are from Cubase 10.5.

1. Click "Studio" > "Studio Setup..."



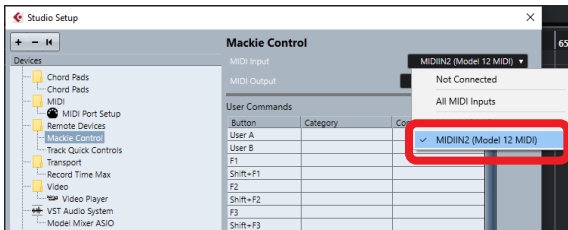
2. Select Remote Devices and click the + at the top left of the window.



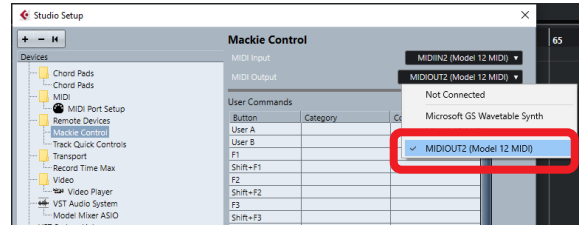
3. Select "Mackie Control".



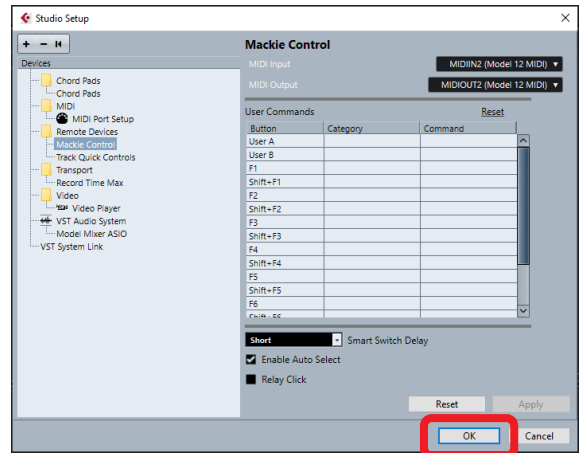
4. Set the MIDI Input to "MIDIIN2 (Model 12 MIDI)".
On a Mac, set it to "Model 12 MIDI DAW Control IN".



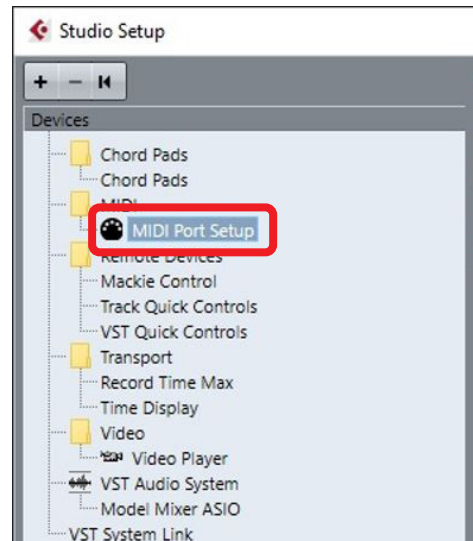
5. Set the MIDI Output to "MIDIOUT2 (Model 12 MIDI)".
On a Mac, set it to "Model 12 DAW Control OUT".



6. Click "OK".

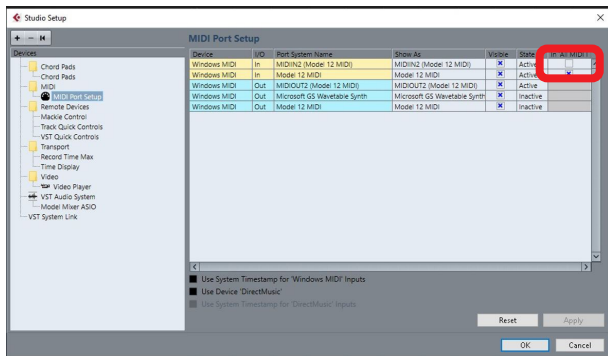


7. Return to "Studio Setup..." and click "MIDI Port Setup".

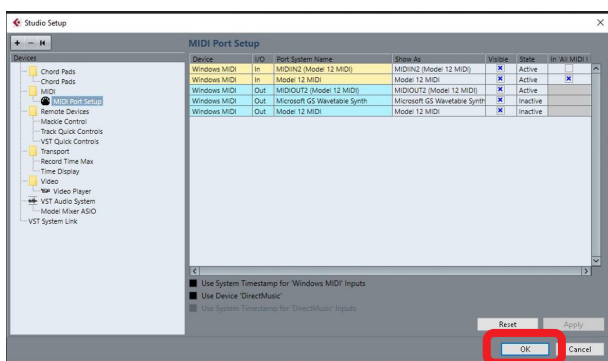


Making various DAW application settings

8. Remove the check from the box for "MIDIIN2 (Model 12 MIDI)".



9. Click "OK".



The **■** button on the Model 12 will light, showing that remote control is enabled. Cubase might need to be restarted depending on the setup of the computer it is on.

Controls that can be used with the DAW

The following Model 12 controls can be used to operate the DAW application.

- **F2** **SET** button (DAW CONTROLLER MARKER screen)
- **F3** **<<<** button (DAW CONTROLLER MARKER screen)
- **F4** **>>>** button (DAW CONTROLLER MARKER screen)
- **F2** **CYCL** button (DAW CONTROLLER TRACK screen)
- **F3** **<** button (DAW CONTROLLER TRACK screen)
- **F4** **>** button (DAW CONTROLLER TRACK screen)
- MULTI JOG dial (locate function)
- **<<</>>>** buttons
- **■** button
- **▶/||** button
- **●** button
- PAN knobs (1-6, 7/8-9/10)
- REC buttons (1-6, 7/8-9/10)
- MUTE switches (1-6, 7/8-9/10)
- SOLO switches (1-6, 7/8-9/10)
- Channel faders (1-6, 7/8-9/10)
- FX fader (master fader control)

ATTENTION

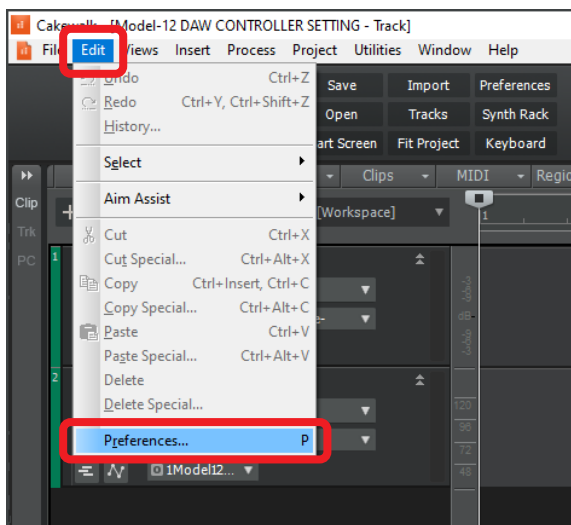
Immediately after connecting with the DAW as well as after settings have been made in the DAW, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.

Making various DAW application settings

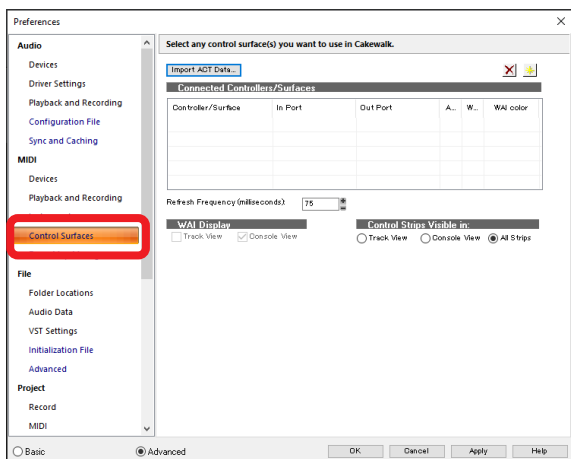
Cakewalk

The following screens are from Cakewalk version 2020.01.

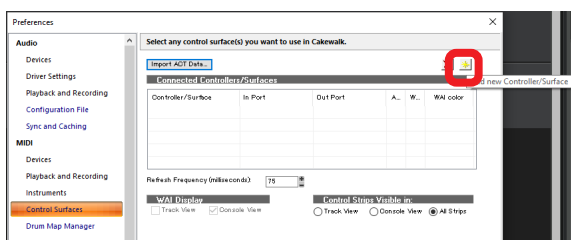
1. Click "Edit" > "Preferences..."



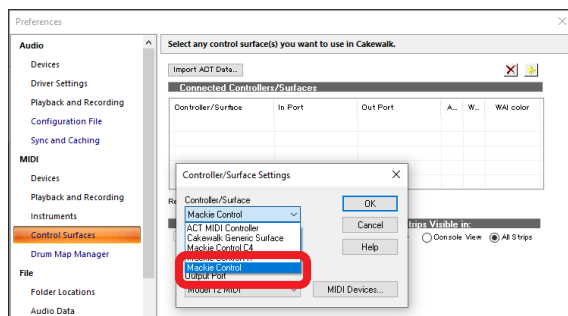
2. Select "Control Surfaces".



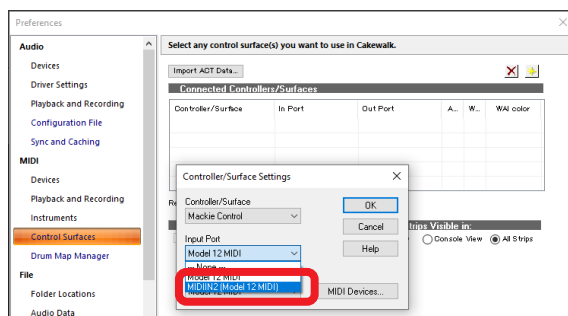
3. Click the star mark at the top right of the window.



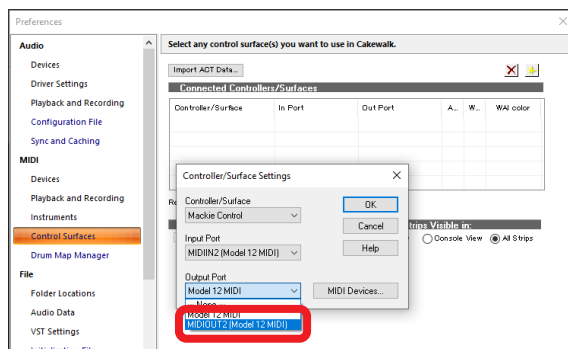
4. Set the Controller/Surface to "Mackie Control".



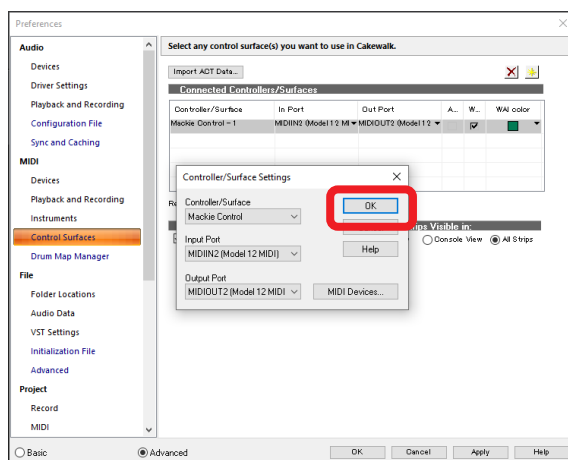
5. Set the Input Port to "MIDIIN2 (Model 12 MIDI)".




6. Set the Output Port to "MIDIOUT2 (Model 12 MIDI)".



7. Click "OK".



The  button on the Model 12 will light, showing that remote control is enabled.

Controls that can be used with the DAW

The following Model 12 controls can be used to operate the DAW application.

- **F3** <<< button (DAW CONTROLLER MARKER screen)
- **F4** >>> button (DAW CONTROLLER MARKER screen)
- **F2** CYCL button (DAW CONTROLLER TRACK screen)
- **F3** < button (DAW CONTROLLER TRACK screen)
- **F4** > button (DAW CONTROLLER TRACK screen)
- MULTI JOG dial (locate function)
- <<</>>> buttons
- ■ button
- ▶/|| button
- ● button
- PAN knobs (1-6, 7/8-9/10)
- REC buttons (1-6, 7/8-9/10)
- MUTE switches (1-6, 7/8-9/10)
- SOLO switches (1-6, 7/8-9/10)
- Channel faders (1-6, 7/8-9/10)

ATTENTION

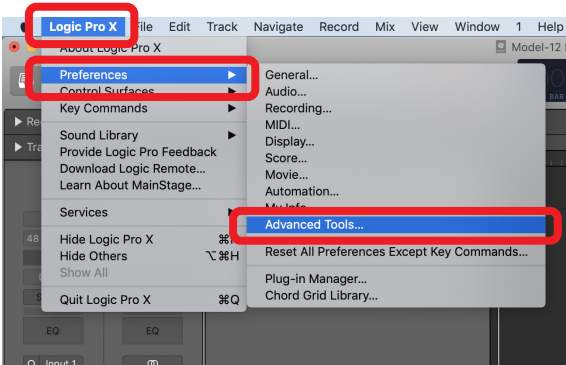
Immediately after connecting with the DAW as well as after settings have been made in the DAW, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.

Making various DAW application settings

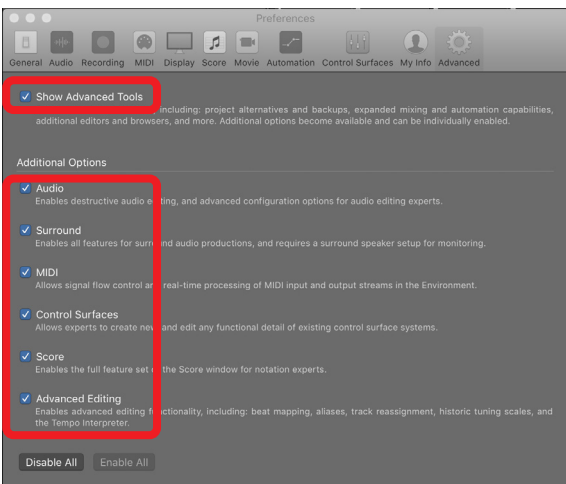
Logic Pro

The following screens are from Logic Pro X version 10.4.8.

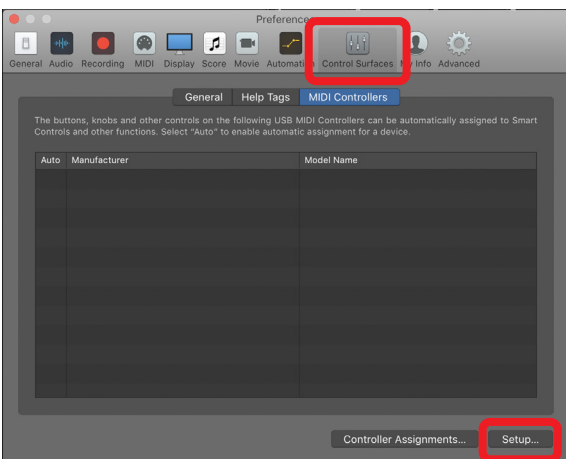
1. Click "Logic Pro X" > "Preferences" > "Advanced Tools..."



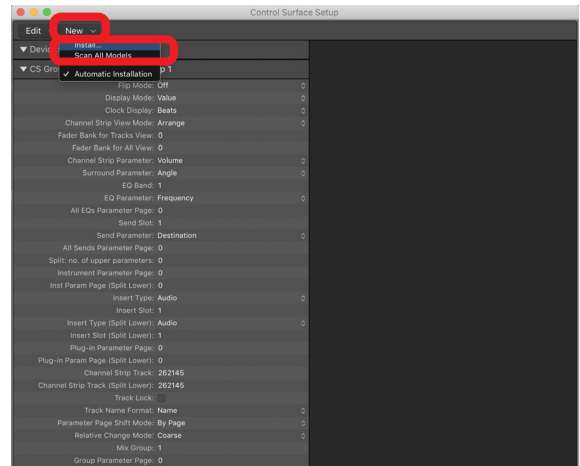
2. Put checks in all the boxes.



3. Select the "Control Surfaces" page, and click "Setup..."



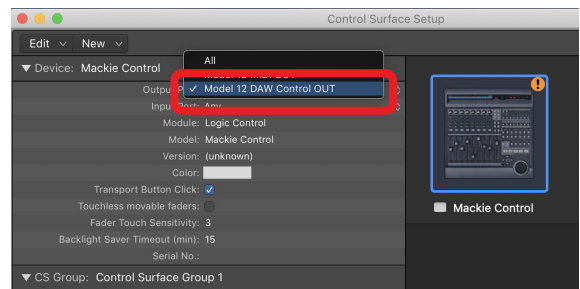
4. Click "New" > "Install..."



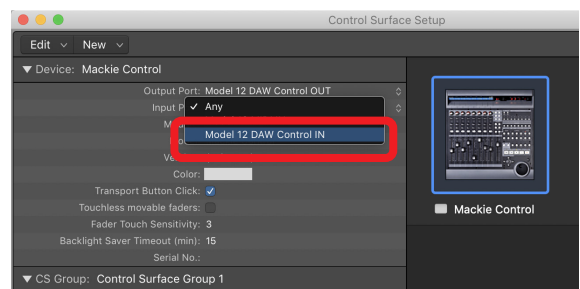
5. Select "Manufacturer: Mackie Designs" and "Model: Mackie Control", and click "Add".



6. For Device: Mackie Control, set the Output Port to "Model 12 DAW Control OUT".











7. For Device: Mackie Control, set the Input Port to "Model 12 DAW Control IN".



The ■ button on the Model 12 will light, showing that remote control is enabled.

Controls that can be used with the DAW

The following Model 12 controls can be used to operate the DAW application.

- **F2**  button (DAW CONTROLLER TRACK screen)
- **F3**  button (DAW CONTROLLER TRACK screen)
- **F4**  button (DAW CONTROLLER TRACK screen)
- MULTI JOG dial (locate function)
-  /  buttons
-  button
-  button
-  button
- PAN knobs (1-6, 7/8-9/10)
- REC buttons (1-6, 7/8-9/10)
- MUTE switches (1-6, 7/8-9/10)
- SOLO switches (1-6, 7/8-9/10)
- Channel faders (1-6, 7/8-9/10)
- FX fader (master fader control)

ATTENTION

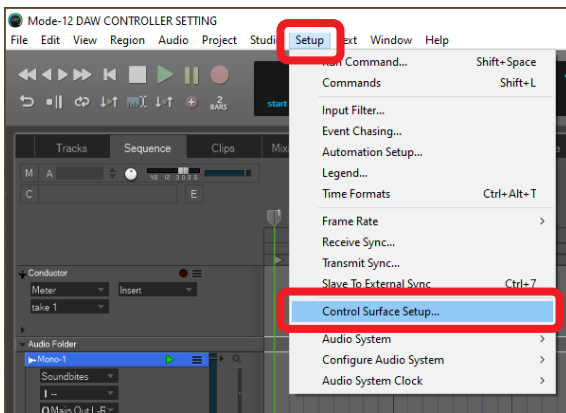
Immediately after connecting with the DAW as well as after settings have been made in the DAW, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.

Making various DAW application settings

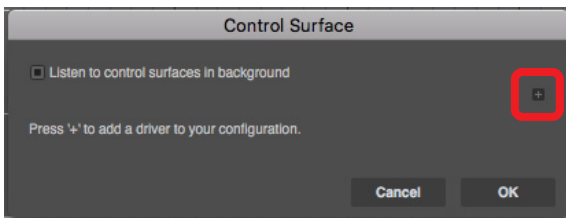
DP (Digital Performer)

The following screens are from Digital Performer 10.1.

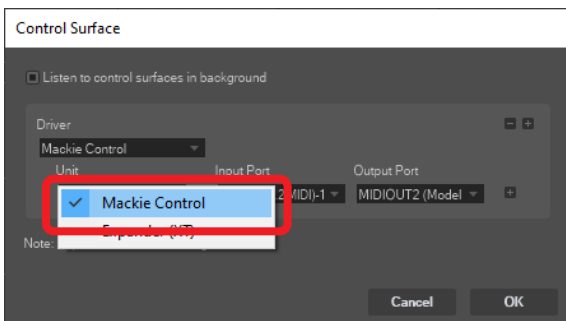
1. Click "Setup" > "Control Surface Setup..."



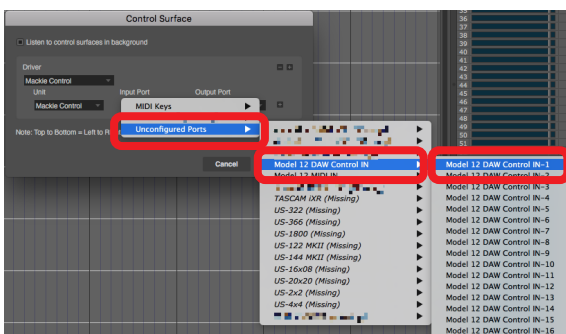
2. Click the + at the right side of the window.



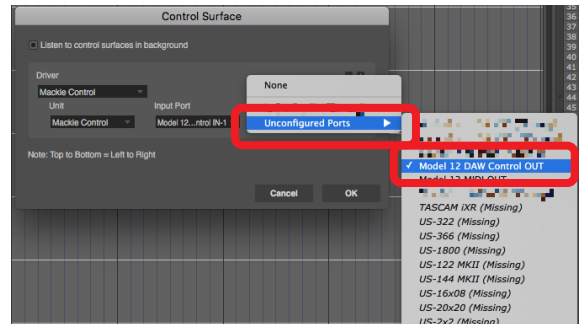
3. Set the Unit to "Mackie Control".



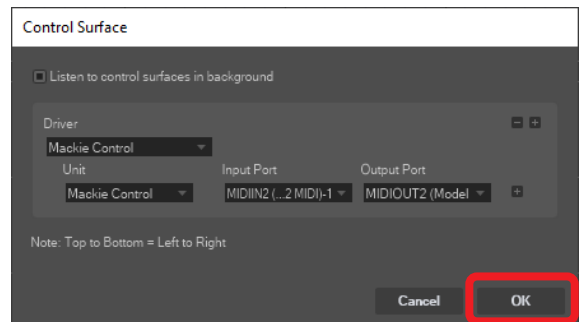
4. Set the Input Port to "Model 12 DAW Control IN".
On a Mac, set it to "Model 12 MIDI DAW Control IN".



5. Set the Output Port to "Model 12 DAW Control OUT".
On a Mac, set it to "Model 12 DAW Control OUT".



6. Click "OK".



The ■ button on the Model 12 will light, showing that remote control is enabled.

Controls that can be used with the DAW

The following Model 12 controls can be used to operate the DAW application.

- F3 <<< button (DAW CONTROLLER MARKER screen)
- F4 >>> button (DAW CONTROLLER MARKER screen)
- F2 CYCL button (DAW CONTROLLER TRACK screen)
- F3 <- button (DAW CONTROLLER TRACK screen)
- F4 >- button (DAW CONTROLLER TRACK screen)
- <<</>>> buttons
- ■ button
- ►/|| button
- ● button
- REC buttons (1-6, 7/8-9/10)
- MUTE switches (1-6, 7/8-9/10)
- SOLO switches (1-6, 7/8-9/10)
- Channel faders (1-6, 7/8-9/10)
- FX fader (master fader control)

ATTENTION

Immediately after connecting with the DAW as well as after settings have been made in the DAW, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.

Making various DAW application settings

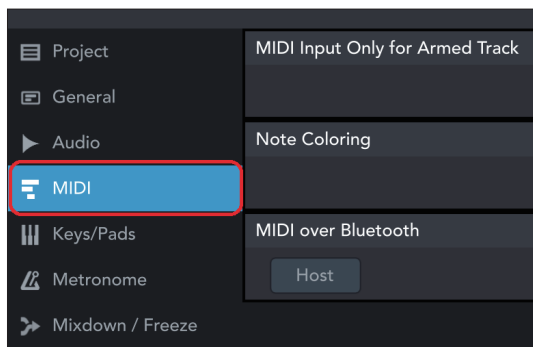
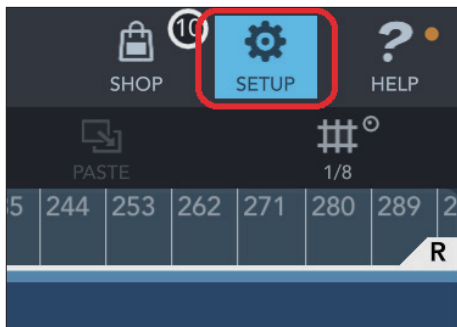
Cubasis

The following screens are from Cubasis 3.3.

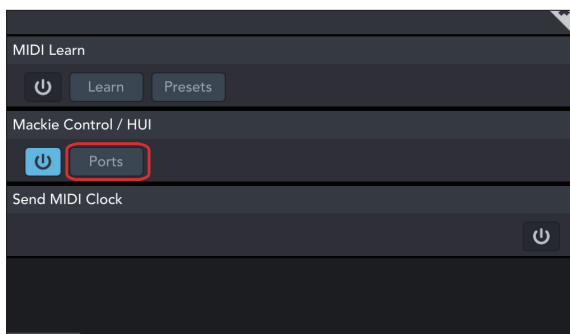
ATTENTION

Cubasis 3.3 and later are supported.

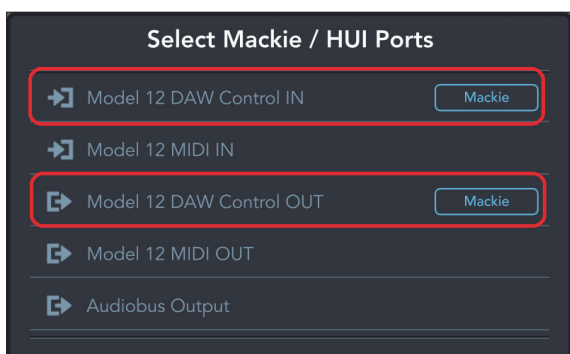
1. Click "SETUP" > "MIDI".



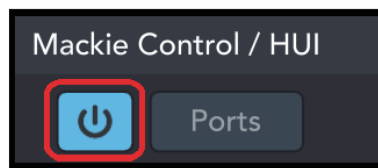
2. Click "Ports" under "Mackie Control/HUI" in the window.




3. In the Select Mackie/HUI Ports window, click "Model 12 DAW Control IN" and "Model 12 DAW Control OUT" and set them both to "Mackie".










4. Turn on the icon shown inside the red frame.



The  button on the Model 12 will light, showing that remote control is enabled.

Controls that can be used with the DAW

The following Model 12 controls can be used to operate the DAW application.

- F2  button (DAW CONTROLLER TRACK screen)
- F3  button (DAW CONTROLLER TRACK screen)
- F4  button (DAW CONTROLLER TRACK screen)
- MULTI JOG dial (locate function)
-  buttons
-  button
-  button
-  button
- PAN knobs (1-6, 7/8-9/10)
- REC buttons (1-6, 7/8-9/10)
- MUTE switches (1-6, 7/8-9/10)
- SOLO switches (1-6, 7/8-9/10)
- Channel faders (1-6, 7/8-9/10)
- FX fader (master fader control)

ATTENTION

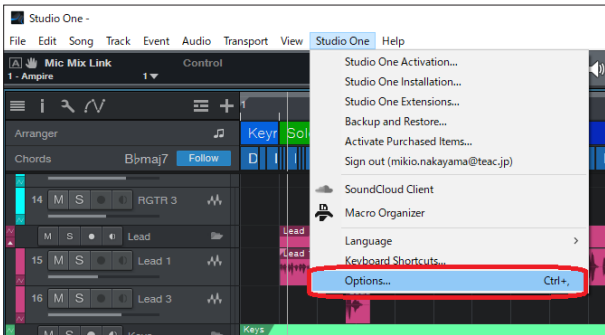
Immediately after connecting with the DAW as well as after settings have been made in the DAW, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.

Making various DAW application settings

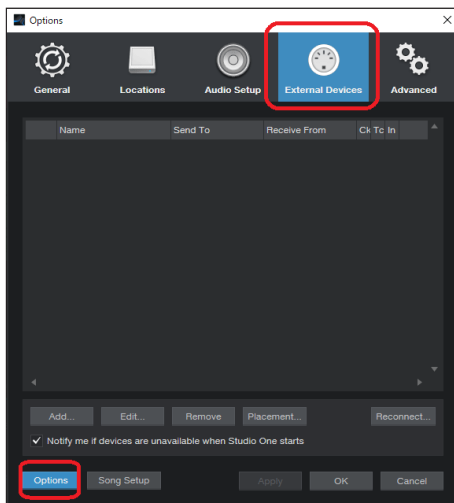
Studio One

The following screens are from Studio One 5.2.1.

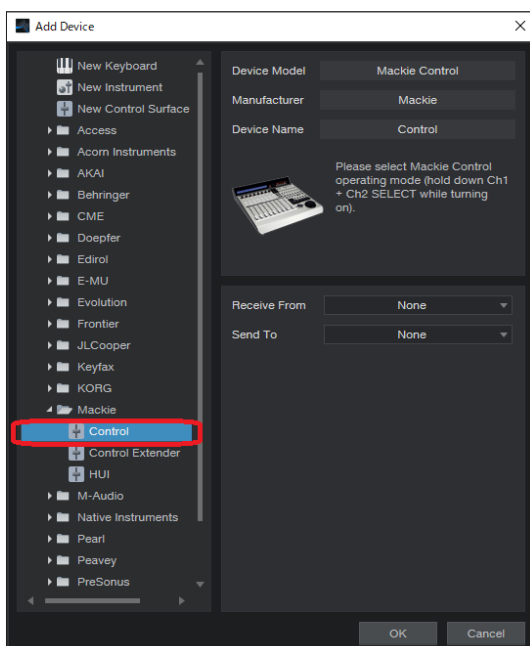
1. Click "Studio One" > "Options..."



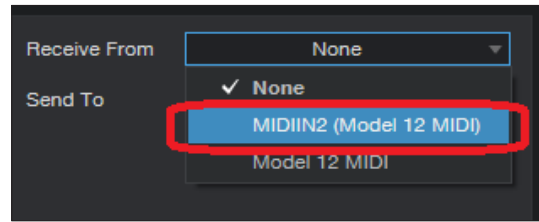
2. Click the "External Devices" icon at the top of the window, and then click "Options".



3. Select "Add..." and open "Mackie Control" > "Control".



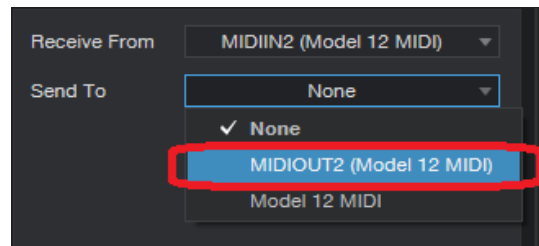
4. Set Receive From to "MIDIIN2 (Model 12 MIDI)".



NOTE

On a Mac, set it to "Model 12 MIDI DAW Control IN".

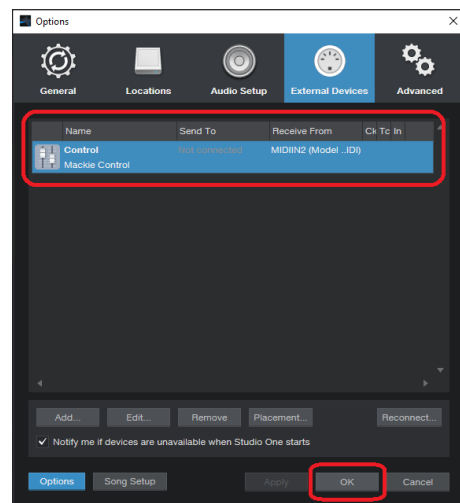
5. Set Send To to "MIDIOUT2 (Model 12 MIDI)".




NOTE

On a Mac, set it to "Model 12 DAW Control OUT".

6. Click "OK".



The  button on the Model 12 will light, showing that remote control is enabled.

Controls that can be used with the DAW

The following Model 12 controls can be used to operate the DAW application.

- **F2** **SET** button (DAW CONTROLLER MARKER screen)
- **F3** **<<** button (DAW CONTROLLER MARKER screen)
- **F4** **>>** button (DAW CONTROLLER MARKER screen)
- **F2** **CYCL** button (DAW CONTROLLER TRACK screen)
- **F3** **<** button (DAW CONTROLLER TRACK screen)
- **F4** **>** button (DAW CONTROLLER TRACK screen)
- MULTI JOG dial (locate function)
- **<</>>** buttons
- **■** button
- **▶/||** button
- **●** button
- PAN knobs (1-6, 7/8-9/10)
- REC buttons (1-6, 7/8-9/10)
- MUTE switches (1-6, 7/8-9/10)
- SOLO switches (1-6, 7/8-9/10)
- Channel faders (1-6, 7/8-9/10)
- FX fader (master fader control)

ATTENTION

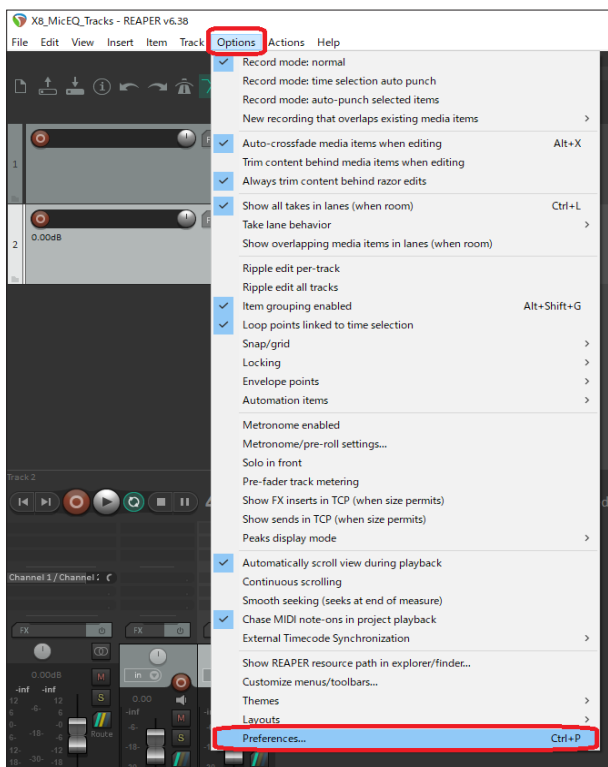
Immediately after connecting with the DAW as well as after settings have been made in the DAW, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.

Making various DAW application settings

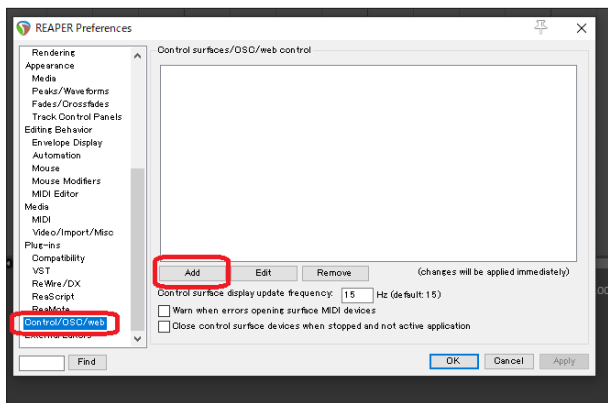
REAPER

The following screens are from REAPER V6.38.

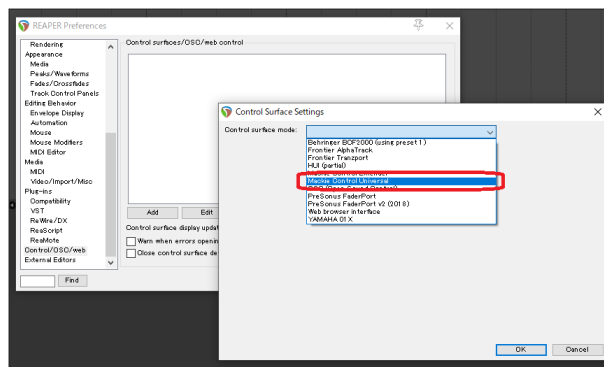
1. Click "Options" > "Preferences..."



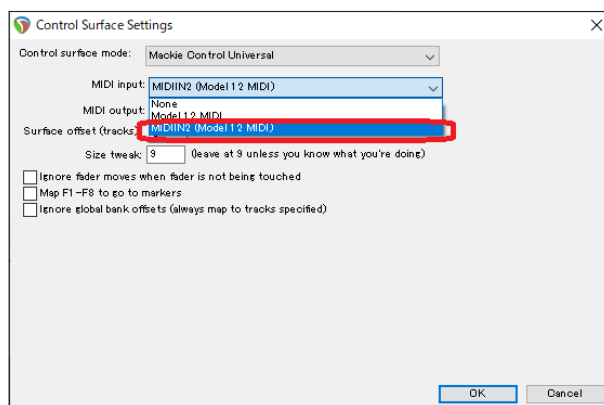
2. Click "Add" under the "Control surfaces/OSC/web control" window.



3. For the "Control surface mode", select "Mackie Control Universal" and click "OK".



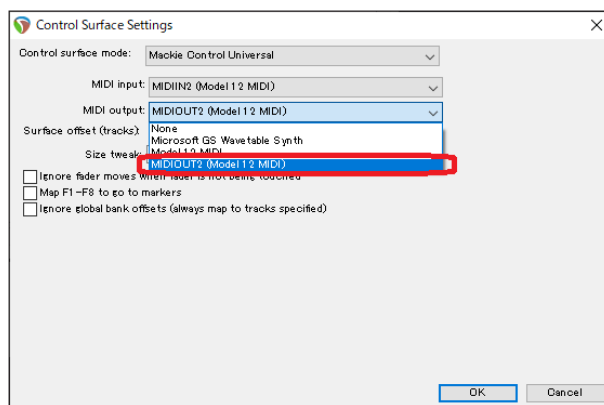
4. Set "MIDI input" to "MIDIIN2 (Model 12 MIDI)".



NOTE

On a Mac, set it to "Model 12 MIDI DAW Control IN".

5. Set "MIDI output" to "MIDIOUT2 (Model 12 MIDI)".

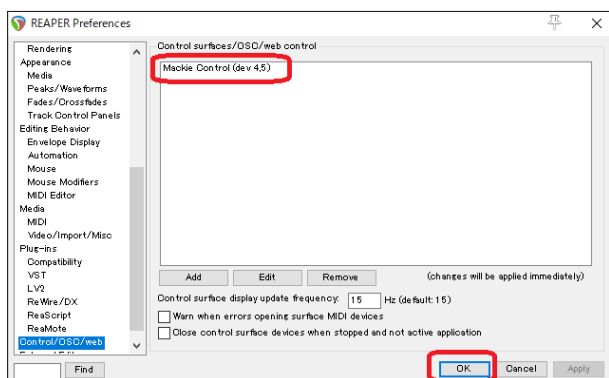


NOTE

On a Mac, set it to "Model 12 DAW Control OUT".

Making various DAW application settings

6. Click "OK".



The ■ button on the Model 12 will light, showing that remote control is enabled.

Controls that can be used with the DAW

The following Model 12 controls can be used to operate the DAW application.

- **F2** **SET** button (DAW CONTROLLER MARKER screen)
- **F3** **<<** button (DAW CONTROLLER MARKER screen)
- **F4** **>>** button (DAW CONTROLLER MARKER screen)
- **F2** **CYCL** button (DAW CONTROLLER TRACK screen)
- **F3** **←** button (DAW CONTROLLER TRACK screen)
- **F4** **⇒** button (DAW CONTROLLER TRACK screen)
- MULTI JOG dial (locate function)
- **◀/▶** buttons
- ■ button
- **▶/||** button
- ● button
- PAN knobs (1-6, 7/8-9/10)
- REC buttons (1-6, 7/8-9/10)
- MUTE switches (1-6, 7/8-9/10)
- SOLO switches (1-6, 7/8-9/10)
- Channel faders (1-6, 7/8-9/10)
- FX fader (master fader control)

ATTENTION

Immediately after connecting with the DAW as well as after settings have been made in the DAW, the DAW settings and the state and positions of the Model 12 buttons, knobs and faders will not match. In this case, adjust the DAW settings to match the Model 12 settings, or use the Model 12 buttons, knobs and faders to match the DAW settings.

MIDI Implementation Chart

MIDI Implementation Chart DAW Control ports

Function		Transmit	Recognize	Remarks
Basic channels	When power on	×	×	
	Settable	×	×	
Mode	When power on	×	×	
	Message	×	×	
	Altered		
Note number	Range	○	○	HUI Mode: Active Sensing
	Range	○	○	Mackie Ctrl Mode: Key, LED
Velocity	Note on	○	○	HUI Mode: Active Sensing
	Note off	×	×	
	Note on	○	○	Mackie Ctrl Mode: Key, LED
	Note off	×	×	
Aftertouch	Polyphonic	×	×	
	Channel	×	×	
Pitch bend		○	×	Mackie Ctrl Mode: Fader
Control change		○	○	HUI Mode: Fader, LED, Switch Ctrl, PAN
		○	○	Mackie Ctrl Mode: PAN, Encoder
Program change		×	×	
	Setting range	
System exclusive		○	○	Mackie Ctrl Mode
System common	Position	×	×	
	Song select	×	×	
	Quarter frame	×	×	
	Tune	×	×	
System real-time	Clock	×	×	
	Command	×	×	
Other	Local on/off	×	×	
	All notes off	×	×	
	Active sense	×	×	
	Reset	×	×	

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