BITWIG STUDIO CONTROLLER EXTENSION

MELBOURNE INSTRUMENTS

ROTO-CONTROL

BITWIG

Setup

This document gives you a brief overview of the functions of the Roto-Control with Bitwig Studio. For an in-depth explanation of all controller functions, please read the Roto-Control user guide provided by Melbourne Instruments.

Beta Note
The integration of Roto-Control in Bitwig Studio is currently in Beta phase. Please send all feedback regarding the integration to bitwig@melbourneinstruments.com and check www.melbourneinstruments.com/roto regularly for the latest updates.

The Roto-Control extension works with **Bitwig Studio 5.3.8** or later. Please go to bitwig.com/download and download the latest installer.

Installing the .bwextension file
Before you can use Roto-Control with Bitwig Studio, you need to install the Roto-Control extension file on your computer:

- Go to www.melbourneinstruments.com/roto, downlad the Roto-Control Bitwig Extension
- Drag and drop Roto-Control.bwextension onto the openend application window. Bitwig Studio will automatically copy the file to the correct location.

Alternatively you can copy the file manually to the correct location. This is different depending on which operating system you have:

- **macOS:** Documents/Bitwig Studio/Extensions
- **Windows:** %USERPROFILE%\Documents\Bitwig Studio\Extensions
- **Linux*:** ~/Bitwig Studio/Extensions

Roto-Setup App does not currently support Linux.

In case the Extensions folder does not exist, you have to create that folder.

Setup Roto-Control in Bitwig Studio
When Roto-Control.bwextension is installed correctly, Roto-Control should be detected and set up automatically when it is connected.

To add the controller manually:
- Open the Dashboard and navigate to Settings > Controllers
- Click on Add Controller on the bottom of the window
- Select Melbourne Instruments in the Hardware Vendor drop-down menu
- Select Roto-Control in the product list on the right
- Select Roto-Control's MIDI Input and Output Ports

Set Takeover Mode to Immediate
For the best encoder experience, the controller Takeover mode should be set to immediate:

- Open the Dashboard and navigate to Settings > Controllers
- Set Takeover mode to immediate

Plug-in Mode: Remote Controls

Plug-in Mode lets you control various parameters of devices or third-party plug-ins. It can work in two different ways: If the remote controls of a device or plug-in are visible, the eight encoders are mapped to the remote controls automatically. If the remote controls are hidden, you can assign parameters to the encoders and buttons manually (see next page).

1 Mode Select
Press MODE to show the different modes on the displays. Press PLUGIN to enter Plug-in Mode.

To use automatic remote controls mapping:
- Select a device or plug-in in the device chain of a track
- Make the remote controls visible by pressing < and > simultaneously or clicking on the remote controls button in the device header
- The eight remote controls are now automatically mapped to the eight encoders of Roto-Control

2 Track Select
Press FUNC to show the currently selected bank of eight tracks on the displays. Press a button to select a track.

Press < or > to select the previous or next track bank.

3 Transport Functions
Press the Transport button to enter transport mode. See page 6 for more details.

4 Device Select/Activate
Press and hold SEL to display the devices of a track, then press a button to select a device.

Press SEL to display the devices of a track. Press a button to activate or deactivate a device.

5 Pin Device
Press (+) to pin the currently selected device. If a device is pinned the (+) button will blink in green.

You can now select other devices with the mouse cursor while still being able to control the pinned device.

If you select a different device using the SEL key, the pin will follow.

6 Remote Controls Page Select
Show/Hide Remote Controls
Press < or > to select the previous or next remote controls page of the currently selected device.

Press < and > simultaneously to toggle between remote controls and manual mapping.

7 Encoders
The eight encoders are mapped to the remote controls of a device, plug-in, or the track or project remotes.

8 Displays
The displays will show the remote control parameter names on a light blue background.

Plug-in Mode: Manual Mapping

In Manual Mapping Plug-in Mode the parameter assignments for each device or plug-in are stored inside Roto-Control. Once an assignment has been made, it will work for all instances of the device or plug-in across all tracks and all Bitwig Studio projects.

1 Mode Select
Press MODE to show the different modes on the displays. Press PLUGIN to enter Plug-in Mode.

To use manual mapping:
- Select a device or plug-in in the device chain of a track
- Hide the remote controls by pressing < and > simultaneously or clicking on the remote controls button in the device header
- If manual mappings for the selected device or plug-in have been created previously, the displays will show the assigned parameters. If no mappings have been created, the displays will be empty.

2 Parameter Learn
Press LEARN to start the learning process of device or plug-in parameters:

- Press the LEARN button
- On Roto Control touch a knob or button you want to assign. The corresponding display will show LEARNING.
- In Bitwig Studio move the parameter you want to assign with the mouse. This works with Bitwig Devices as well as third-party plug-ins. Once you touch a control it will move automatically to learn the parameter range. After that the display will show LEARNED.
- Press the LEARN button again to exit

If a stepped parameter is assigned to a button, the values can be toggled through by pressing the button repeatedly.

3 Track Select
(see previous page)

4 Transport Functions
(see page 6)

5 Device Select/Activate
(see previous page)

6 Pin Device
(see previous page)

7 Parameter Page Select
Show/Hide Remote Controls
Press < or > to select the previous or next parameter page of the currently selected device.

Press < and > simultaneously to toggle between remote controls and manual mapping.

8 Encoders
The eight encoders are mapped to parameters of a device or plug-in.

9 Displays
The displays will show the parameter names on a dark blue background.

10 Buttons
The eight buttons are mapped to parameters of a device or plug-in.

Please note that colours and names can be customised using Roto-Setup App.

Mix Mode

Mix Mode lets you control selected mixer parameters in banks of eight tracks or multiple parameters of a single track.

1 Mode Select
Press MODE to show the different modes on the displays. Press MIX to enter Mix Mode.

2 Track View
Press FUNC to toggle track view on or off. In Track View the eight encoders control Volume, Pan and all FX Sends of the currently selected track.

Press < or > to navigate to FX Sends 7-14, 15-21 etc. (if the project contains more than six FX Sends).

3 Transport Functions
(see page 3)

4 Setup
Press and hold SEL, then press a button to assign the encoders and buttons to various parameters.

Encoders:
• **Volume**
• **Pan**
• **FX Sends** (press FX repeatedly to toggle between different FX sends, if the projects contains more than one FX send)

Buttons:
• **Mute**
• **Solo**
• **Record Arm**

5 Track Bank Select/Toggle Master Tracks
Press < or > to select the previous or next bank of eight tracks.

Press < and > simultaneously to toggle between Tracks and FX/Master Tracks.

6 Volume/Pan/FX Sends
The encoders control Volume, Pan, or FX Send levels for a bank of eight tracks.

7 Displays
The displays will show the track names and button functions for a bank of eight tracks. The color of the track name background corresponds to the track color.

8 Mute/Solo/Record Arm
The buttons control the Mute, Solo, or Record Arm for a bank of eight tracks.

Transport Controls

Press the TRANSPORT button to enter Transport Controls mode. The eight buttons will control the transport section of Bitwig Studio.

1 Play/Pause
Press PLAY to start or pause the transport.

2 Stop
Press STOP to stop the transport. If the transport is stopped, press STOP again to return the playback marker to bar 1.1.1

3 Record (Arranger)
Press RECORD to toggle recording in the Arranger.

4 Overdub (Clip Launcher)
Press OVERDUB to toggle overdub in the Clip Launcher.

5 Loop
Press LOOP to toggle the loop status.

6 Punch In
Press PUNCH IN to toggle Punch In.

7 Punch Out
Press PUNCH OUT to toggle Punch Out.

8 Restore Automation
Press RE-ARM to play back existing automation data if it has been overwritten manually.