

# Midi Clip Modulo



Midi Clip Modulo is a Max For Live audio device that manipulates MIDI note data in the currently selected MIDI clip. It can sit on any track and should be controlled via Live's MIDI/keyboard remote mapping. To use:

- Add the device to your Live set
- Map its controls to MIDI/keyboard remote controls
- Select a MIDI clip (in session view)
- Invoke one of the functions via MIDI/keyboard remote

Only one instance of the device is required in the Live set, and it can perform the following operations:

- Align - Move all notes, such that the first note in the clip lies at the loop start point
- Shift left - Move all notes left by a specified amount, wrapping notes that move beyond the loop start point to the end of the clip
- Shift right - Move all notes right by a specified amount, wrapping notes that move beyond the loop end point to the start of the clip

Whilst it can be used with any MIDI clip, the device is particularly intuitive tool when used with drum sequences. See the [workflow example](#) for more details.

*Nb. Midi Clip Modulo cannot be used WITHOUT mapping some external control to its functionality. As the device always acts on the currently selected clip it is impossible to interact with the device using the mouse (by having Live's detail view in 'track mode') and select a clip (by having the detail view in 'clip mode') at the same time!*

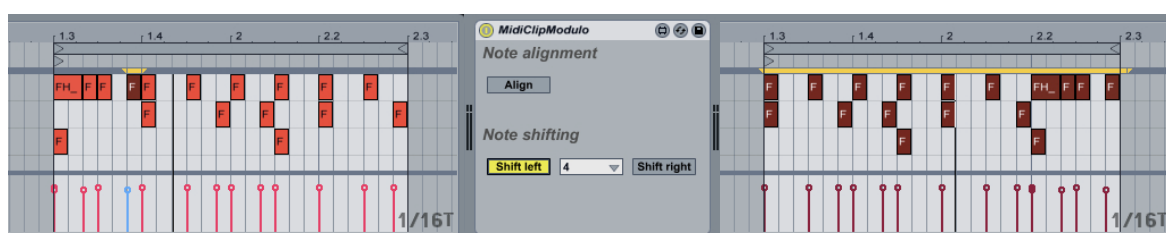
# Device Functions

## Align



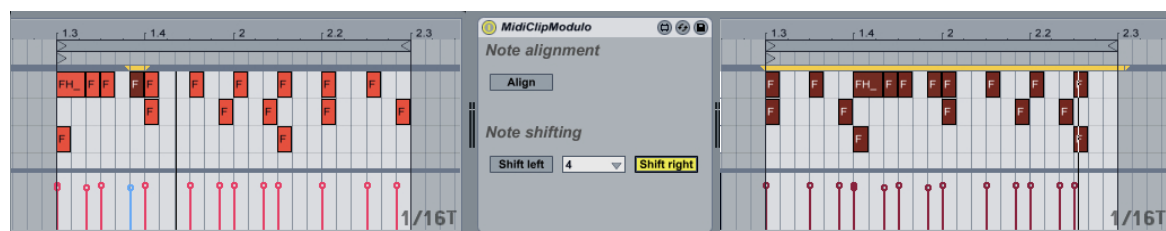
Moves all notes to align with clip start. This can be useful to quantise MIDI clips recorded by hand (rather than sequenced) such that the notes in the clip start in time with your Live set, but the timing characteristics between the individual notes are retained.

## Shift Left



Shifts notes to the left by the amount specified by the device's 'Modulo Amount' parameter. Note that notes that move beyond the clip's loop-start are wrapped and moved to the loop-end of the clip.

## Shift Right



Shifts notes to the right by the amount specified by the device's 'Modulo Amount' parameter. Note that notes that move beyond the clip's loop-end are wrapped and moved to the loop-start of the clip

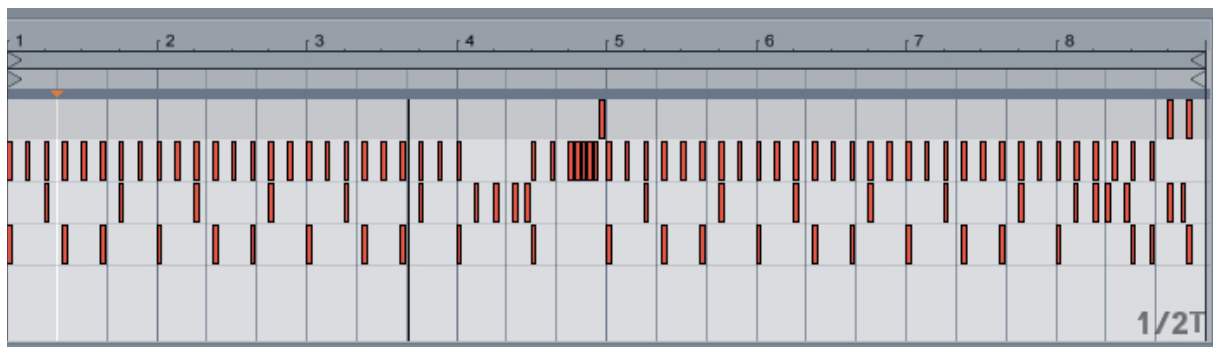
## Remote control and undo

Midi Clip Modulo's functionality can be controlled via Live's in-built MIDI/key mapping system. When mapped from a MIDI controller, both MIDI CC and MIDI Note controls can be used - in either case the 'Align' and Shift functions will act as 'one-shot' buttons (i.e. they will not stay illuminated, and will not require a second press of the MIDI control to 'turn-off').

All of the clip edits that are made with Midi Clip Modulo can be 'undone' using Live's internal undo functionality. Simple click the Edit menu -> Undo

## Workflow Example

Consider a 8 bar MIDI drum clip, with fills in the fourth and eighth bar.



To edit the clip so that the first fill actually occurs at the end of the loop (and the second fill in the middle), you may use the following methods:

### Manually edit the clip

- Cut the notes from the first 4 bars
- Move the notes from the second half of the clip to the first
- Paste the cut notes into the second half of the clip

### Manually edit the clip in arrangement

- Put the clip on a track in the arrangement view
- Cut the first half of the clip
- Paste it to lie after the remainder of the clip
- Select the two clips and consolidate

### Edit the clip launch point

- Change the launch point to the middle of the clip, rather than the start

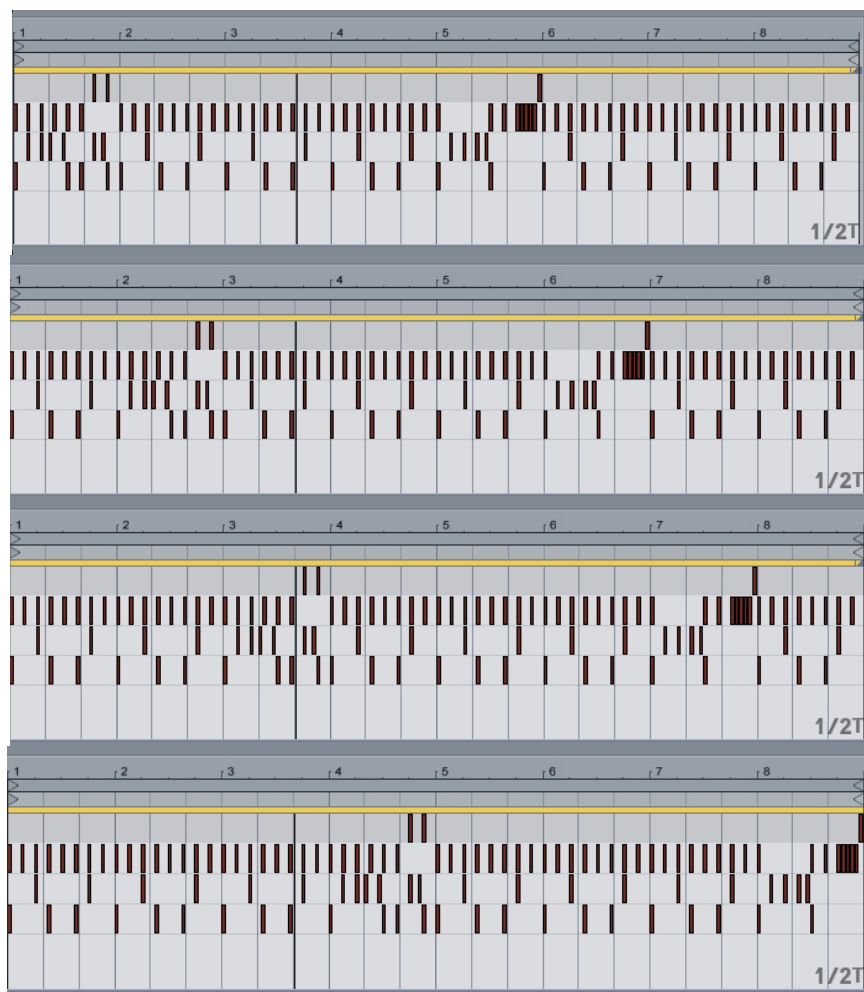
Midi Clip Modulo adds the following workflow into your Live sets:

### Setup

- Add the Midi Clip Modulo device to any track
- Assign keyboard shortcuts or MIDI controllers using Live's MIDI mapping to the 'Align', 'Shift left' and 'Shift right' functions
- Additionally, if required, map a MIDI controller to the 'Modulo Amount' parameter

Now to perform the 'edit' of the clip

- Set the 'Modulo Amount' to be '4 (beats)' (or one bar)
- Select the clip
- Press one of your keyboard/MIDI shortcuts 4 times (shifting the loop by 4 bars)



Thats it, and notice you didn't even have to use the mouse (or take your hands off your MIDI controller, if you'd just recorded the MIDI clip you're editing).

## Installation

To install the Midi Clip Modulo Max For Live device, follow the steps outlined at:  
[http://www.ableton.com/pages/faq/max\\_for\\_live#faq\\_8\\_link](http://www.ableton.com/pages/faq/max_for_live#faq_8_link)

## Contact

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