



VST plug-in Arpeggiator

LINEAR-MOTION ALGORITHMIC™  
**SYNARP™**  
SNAKE LINE ARPEGGIATOR™



Manual

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- **Introduction**

Thanks for download **SynArp™** plug-in.

**SynArp™** suggest Arpeggiator which is more interactive, and is unique in VST plug-in. **Linear-motion-Algorithm™** enable unprecedented interactive performance expression by reacting to a change of the input chords and Those cardinality seamlessly. Please enjoy **SynArp** !

- **Install/Setup SynArp™ Arpaggiator Plug-in**

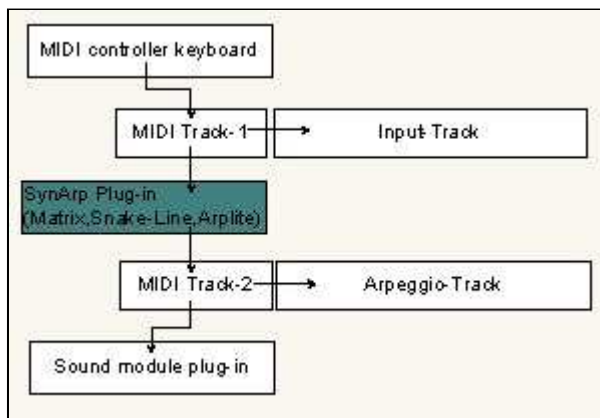
Download Pluggo Runtime from Cycling'74 site, and please install it.

Put **SynArp** plug-in( .dll) in an arbitrary VST folder.

Start a host application, and load plug-in as "a VST-Instrument".  
(For details, please refer to a manual of each host application.)

- **Setup MIDI Track**

Make Two MIDI-Tracks with in a host application. and assume it **MIDI Track-1, MIDI Track-2** each. Choose each input and output of **MIDI Track-1,2** as follows.



- Choose a controller (a keyboard) as an input source of MIDI Track-1.
- Choose SynArp plug-in (Matrix,Snake-Line,Arplite) as an output source of MIDI Track-1.
- Choose SynArp plug-in (Matrix,Snake-Line,Arplite) as an input source of MIDI Track-2.
- Choose an arbitrary VST instrument or a sound module as an output source of MIDI Track-2.

In MIDI Track-1 a source (which you play with keyboards) of an arpeggio, and An arpeggio generated with **SynArp** returns to MIDI Track-2.

※ Example above is a way in Cubase,Nuendo etc.,  
In the case of other host applications, please refer to each manual.

## Snake-Line-Arpeggiator™ Feature

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A form of a characteristic arpeggio-line to draw of **Snake-Line-Arpeggiator** is made by turning down a direction of an arpeggio-line with note-on, note-off, and the random pulse information that can set density .

Furthermore, **Auto-quantize** changing quantize with the number of the input notes, and **note-hold** with pedal control,

**Snake-Line-Arpeggiator** generate unique arpeggio line more interactively by a combination of these functions,

The arpeggio-line to run through as drawing a fluent curve without note-leaps was enabled by a combination with **Linear-Mortion-Algorhythm**.

## Linear-Mortion-Algorhythm™

In the case of approximate Arpeggiator with simple algorithm, accompanied with a occurrence of an note-leaps with a change of an input chord.

As this reason, it pronounce input note (reffer to a list) in specific order simply.

As well as it, there is the kind that used re-trigger for as these measures.

In the case of this algorithm, deal with "change of an input chord" by giving "re-trigger"(reset) every note-on information.

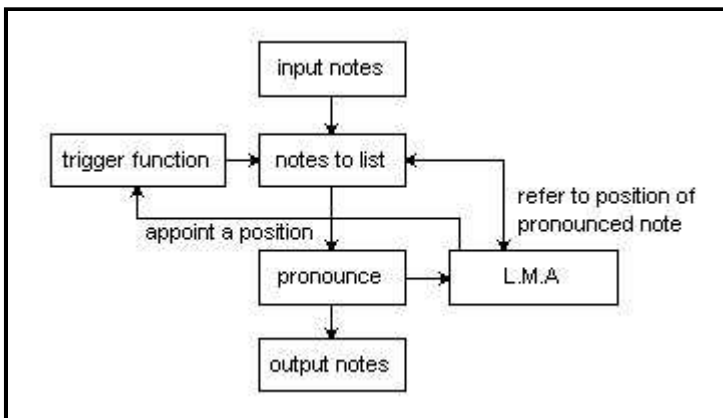
However, in this case, an arpeggio line is reset with every "re-trigger" (a chord change), and a natural line form breaks off.

"**Linear-Mortion-Algorhythm(L.M.A)**" solves these problems.

L.M.A, does return position-information of pronounced note by referring to a list at every pronunciation (trigger), then calculate the next note based on the position-information and appoint it.

The smooth arpeggio line which is not affected by a change of an input chord is enabled by this.

## Linear-Mortion-Algorhythm™



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## Explanation of each part



### [DIRECTION]

Set a form of an arpeggio.

### [MIN-ACT-HLD]

Setting about Key-on.

**MIN** : Set the minimum number of notes in the input chords.

Get rid of unevenness of a timing of the chord input by setting it precisely.

This is the way that the fastest, and is effective,  
when sample a chord precisely from keyboard.

When you play a chord of 3 or 4 notes, you should set it to 3.

**ACT** : Display an active state by indicator.

**HOLD** : Hold of an input chord and you can add a notes.

You can control it in controller **#69** .

### [Pedal]

Set a mode of sustine-pedal effect with control change **#64**.

**Sustine** : Sustine-pedal effect.

This is not the through transmission of a "#64-sustine" message  
such as to sound module/midi-track.

and effect is added by Matrix itself as a duration date.

It is reflected directly for output MIDI-duration data.

**Sus-hold 1** : hold of a notes.

**Sus-hold 2** :The mode which turned over in ON/OFF of Sus-hold 1.

**Aro-on** : An arpeggio starts in pedal on, and an arpeggio is off in pedal off.

**Aro-off** : Turning over mode of Arp-on.

※Controller messege (except #64,#69) is just handed to an DAW track and/or sound module.



### [TURN]

Choose turn trigger of an arpeggio.

**Non** : An arpeggio runs with a form set in Direction.

**Note-on** : Let an arpeggio turn with Note-on trigger.

**Note-off** : Let an arpeggio turn with Note-off trigger.

**Note-on/off** : Let an arpeggio turn with Note-on/off trigger.

**Random** : Let an arpeggio turn according to the density that you set in number box at random.

**LED** : Display trigger of note-on/off,and random turn when random is chosen ,  
and motion status of each up/down by lighting.



### [ RANGE]

Set the range of arpeggio. Sets top and bottom value individually by Shift+click.

**RangeBar** :Set a range by a range bar.

**Playd** :Set a played -range(such as on keyboards) as a arpeggio-range.

By this setting, you can control an arpeggio-range in real time  
by pressed key-position.

**Ctrl-16** :Control range with controller **#16**.



### [ Quantize]

Appoint a note-value.

**TRIG / BEAT** : Set the number of times of trigger per every beat.

**BPM** : Set a tempo (beat per minutes).

**SYNC** : Synchronization with a host.

### [Auto-Quantize]

Change the Quantize gradually depending on the number of the input-notes .

**A - B** : Regular TRIG (the value which set in TRIG) at a set point of A, and the number of TRIG changes to a value of RATIO at a set point of B .

**RATIO** : Set RATIO with a multiple of the number of regular TRIG. (x0.25 ~ x4.0)

**SLOPE** : When value is over 1.0 , RATIO change gradually and slowly.

**ON** : Switch Auto-Quantize on.



**Dur%** : Set duration in a ratio of a note value set in Quantize.

~ 50% for staccato, 100% for legato, 100% ~ for pedal effect.

### [MODE]

Choose a play mode.

**poly** : play poly mode.

**mono** : play mono mode.

**VELO.** : Set velocity.



### [ Recorder]

Performance in [Snake-Line-Arpeggiator] is possible to record with this recorder. and it is possible to store/read as midifile.

Click it in order of **[Rec]** → **[play]** to do a record.

**[Rec]** button serves as a function of an auto record start.

Red LED turns on when you click a **[Rec]** button.

In this state, recorder start a record automatically when you begin to play on your key-board.

**[play]** - Playback of a recorded performance.

**[stop]** - Stop a record or a playback.

**[load]** - Read a midi-file for play back.

**[save]** - Store a recorded performance as a midi-file.