

HY-SEQ16x3v2 ver 1.0.0



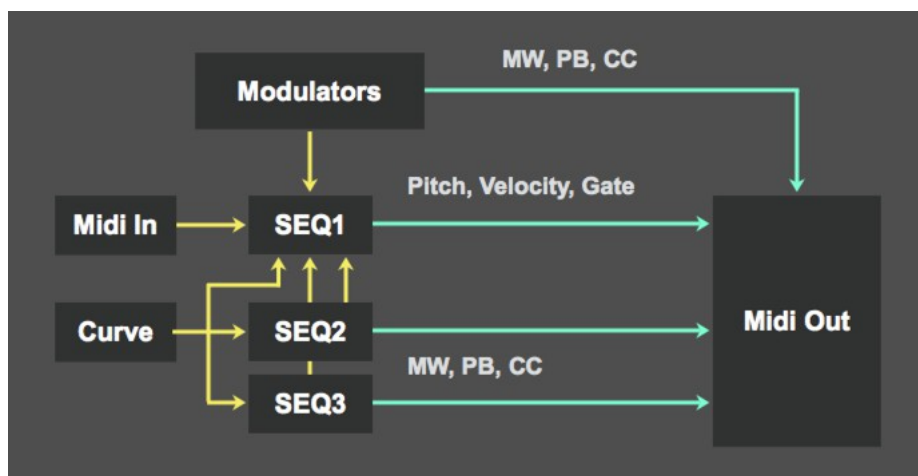
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Overview



3 Step sequencer units (SEQ1, SEQ2, SEQ3)

2 Modulation units with 5 modulation engines(LFO, D-LFO, P-LFO, S-LFO, S&H)

Each sequencer unit can be controlled separately (speed, start, size, direction...)

Modulation and SEQ2, 3 can be used for internal/external parameter modulation.

Curve is used for controlling clock behavior.



Modulation Panel



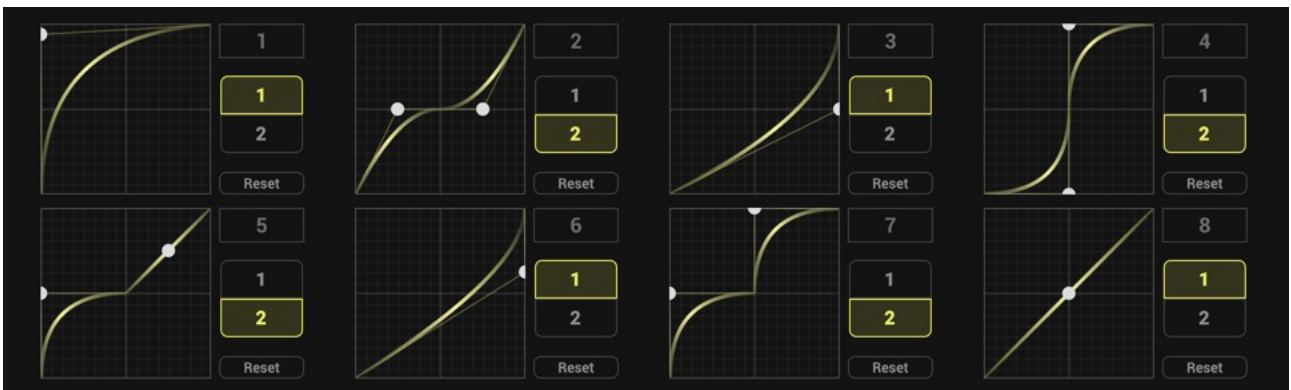
There are 2 modulation units available.

Each unit has 5 modulation engines.

You can modulate internal/external parameter with these.

There are 8 modulation assignments available.

Curve Panel



You can make 8 curve shapes here.

These curves are used for controlling sequencer clock behavior.

Each sequencer unit can be applied one curve shape at a time.

Registration

There are 2 ways for the plugin registration.

1, Drag and drop

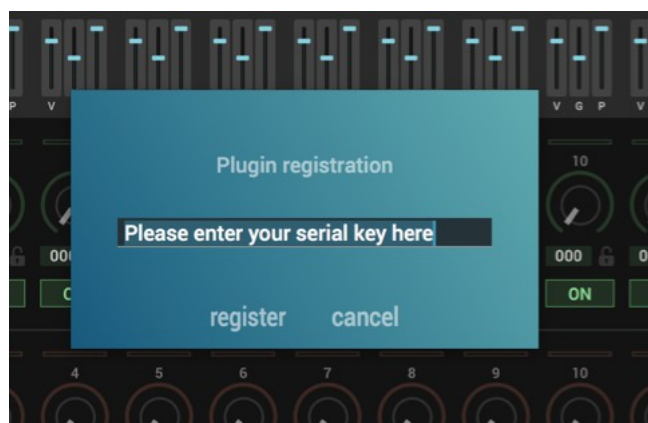
Drag and drop you **keyfile** to the plugin window directly.

2, Copy and paste



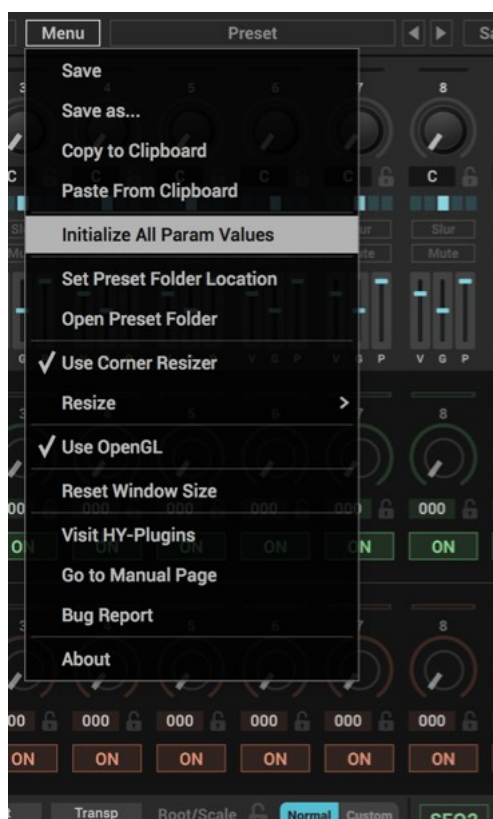
1, Open your **keyfile** with text editor and copy all strings

2, Click "**Demo**" button > select "**Register**" > paste it > press "**register**"



Once HY-SEQ16x3v2 is registered, "**Demo**" text will be changed to "**Registered**".

Plugin Menu



Save : overwrites current loaded preset file

Save as : creates a new preset file

Initialize All Param Values : initializes all parameter values

Set Preset Folder :

if you want to change preset folder location, you need to set new location with this function

Open Preset Folder : opens preset folder

Use Corner Resizer : turn on/off corner resizer

Resize : you can resize plugin window with this menu instead of using the corner resizer

Use OpenGL : if OpenGL is available on your computer, this option will show up

Reset Window Size : resets window size

Visit HY-Plugins : jumps to our homepage

Go to Manual Page : jumps to the manual page

Preset



You can load a stored preset file with clicking preset button or arrow button.

Save : overwrites current loaded preset file

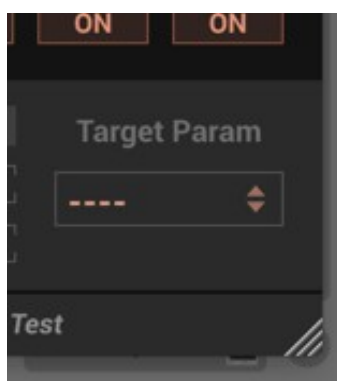
Save as : creates a new preset file

Default Preset Folder Location:

Mac : *Library/Audio/Presets/HY-Plugins/HY-SEQv3x2*

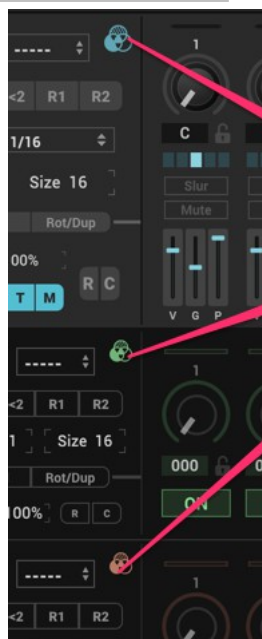
Win : *C:\Users\user name\Documents\HY-Plugins\HY-SEQ16x3v2*

Resizing Plugin Window



You can change plugin window size freely.

Color Edit



Click this and
pick a color

You can change a color of each section of the plugin.

1, click the icon

2, pick a color



Window Mode



Click this button

There are 2 window modes available(normal, compact).

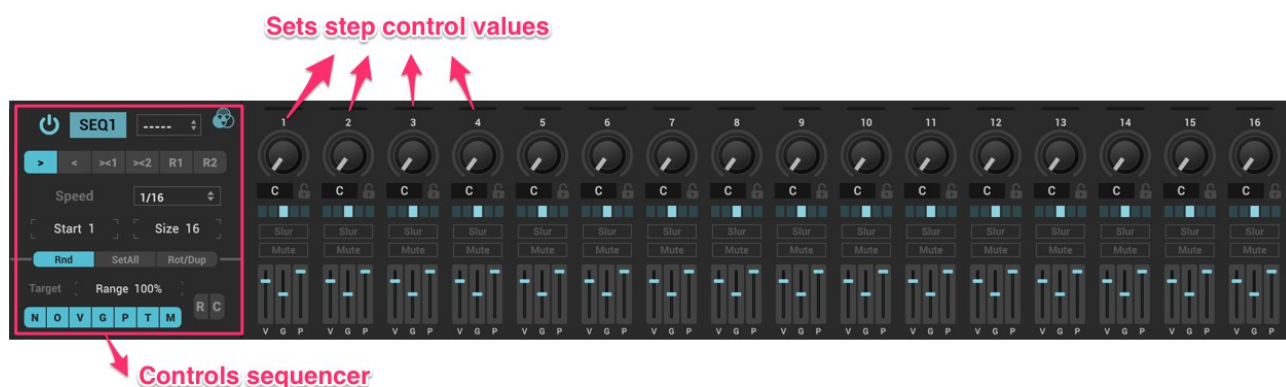
Click arrow icon, you can toggle the window mode.

The picture right is normal mode.

The picture below is compact mode.



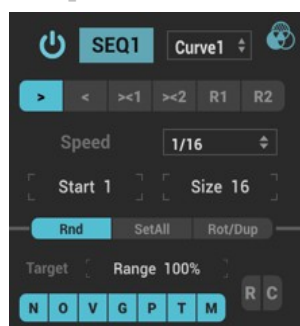
SEQ1



SEQ1 can produce midi notes.

You can set pitch, octave, velo, gate, probability, slur and mute values per step.

Sequencer control section



Power Button : sequencer unit on/off

Curve Menu : sets the curve shape for the clock of this sequencer unit

Directions : sets the running direction of the sequencer unit

> : forward, e.g. 1 > 2 > 3 > 4 ...

< : backward, e.g. 4 > 3 > 2 > 1...

><1 : for/back , e.g. 1 > 2 > 3 > 4 > 3 > 2 ...

><2 : for/back2 , e.g. 1 > 2 > 3 > 4 > 4 > 3 > 2 > 1 > 1 > 2...

R1 : random, e.g. 3 > 1 > 2 > 4

R2 : drunk, e.g. 1 > 2 > 1 > 2 > 3 > 4 > 3 > 2 > 3 > 4 > 3 > 2 ...

Speed Menu : sets the running speed

Start : sets the start position

Size : sets the step size

Rnd Panel

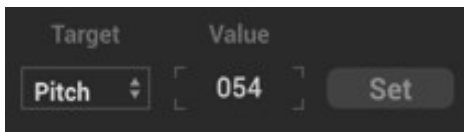


You can randomize/clear step values here.

Range : sets the randomize range(0 to 100%)

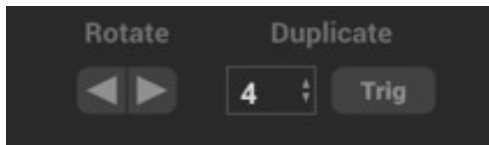
"N O V..." : randomize target on/off buttons

R/C : triggers randomize or clear action

SetAll Panel

You can set all step values at once.

- 1, select target parameter
- 2, set the value
- 3, click "Set" button

Rot/Dup Panel

Rotate : rotates step values lef/right

Duplicate:

You can duplicate step values.

Example of duplication:

If you select duplication menu 4, first 4 step of value states will be duplicated.

Click "Trig" button, these states will be applied to 5 to 16 step.

Step Value Control

You can set step value of each parameter here.



Pitch : sets the pitch of this step

Lock : if lock is active, that step will not be affected by randomize/clear, setall and duplicate actions.

Octave : sets the octave of this step(-2 to +2)

Slur : turn on this, gate length of this step will be stretched out to the next step. If pitch of the next step is same as to this step, slur becomes "tie".

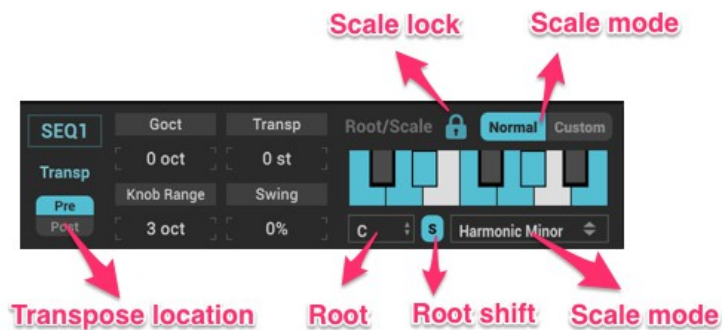
Mute : sets mute on/off

V : velocity level of this step

G : gate length factor of this step

P : triggered probability of this step

Settings



Goct : sets the global octave value

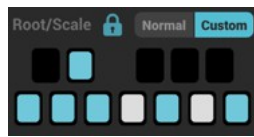
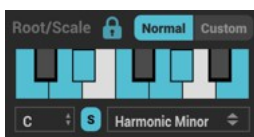
Transp : sets the transpose value(-12 to +12 semitone)

Transp Pre/Post : if “Pre” is selected, out pitch will be transposed before scale process.
If “Post”, out pitch will be transposed after scale process.

Swing : sets the swing level(-100 to +100 %)

Scale lock : if lock is active, scale setting will not be affected by preset change

Scale mode : sets the scale mode(normal, custom)



Root : sets the root note

Root shift : if this is active, output pitch will be shifted by root pitch

Example :

If root is “C” and root shift is on, shift value is 0.

IF root is “E” and root shift is on, out pitches will be shifted by +3 semitones.

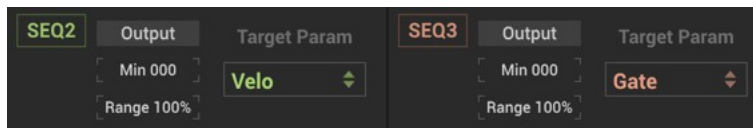
Scale mode : sets the scale mode

SEQ2/3



Sequencer unit 2 and 3 can be used for controlling seq1 params or modulation source.

Parameter Assign



You can control a parameter with output signal of SEQ2/3.

Output signal of SEQ2/3 can be used for modulation source in modulation matrix page.

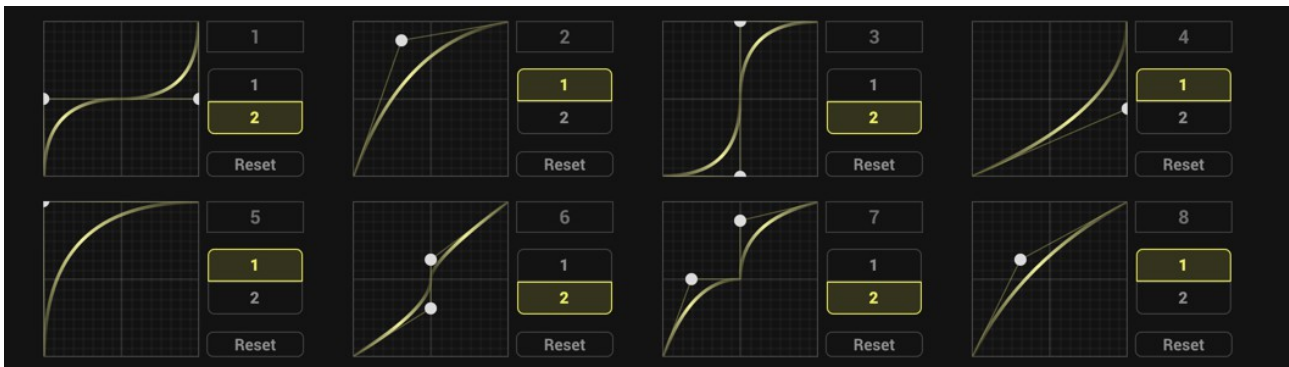
Min : minimal value of SEQ2/3 output

Range : value range of SEQ2/3 output

Example:

If you set target parameter of SEQ2 “**Velo**”, velocity value of SEQ1 will be replaced to output value of SEQ2.

Clock Curve Editor



You can make 8 curve shapes here and use them for controlling sequencer clocks.



“1 2” Button : sets the number of curve points

Reset : resets the curve shape

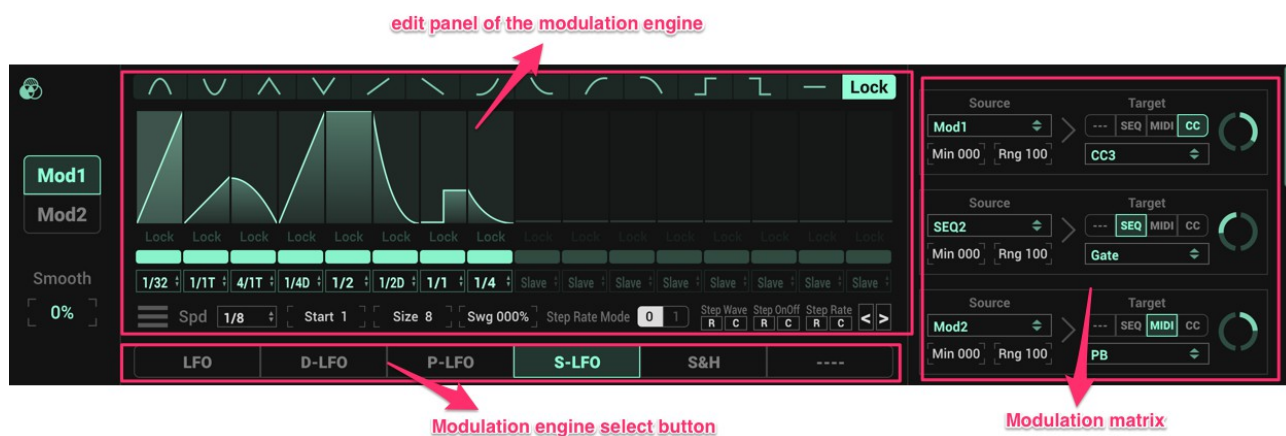


Each sequencer unit has curve assign menu.

In the case of the left picture, the clock behavior of SEQ1 is controlled by curve shape 5.

And the clock behavior of SEQ2 is controlled by curve shape 3.

Modulation



There are 2 modulation units available.

Each unit has 5 modulation engines.

You can make 8 modulation assignments.

Modulation assignment



Modulation source : sets the modulation source(Mod1, Mod2, SEQ2, SEQ3)

Min : sets the minimum modulation of this assignments

Rng : sets the modulation range of this assignments

Target : sets the modulation target

Knob : modulation depth(-100 to + 100 %)

Modulation Engine

LFO



Simple LFO

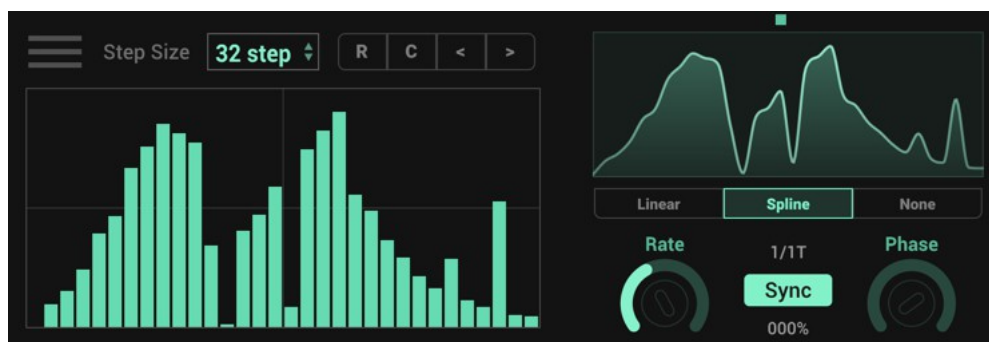
Parameter:

Rate : controls the lfo speed

Sync : turn on/off bpm synced

Phase : sets the start phase position

D-LFO



Drawable LFO

You can draw its waveform with multi-slider(max 32 steps)



There are 3 interpolation modes for wave drawing.

From the left, linear, spline and non interpolation.

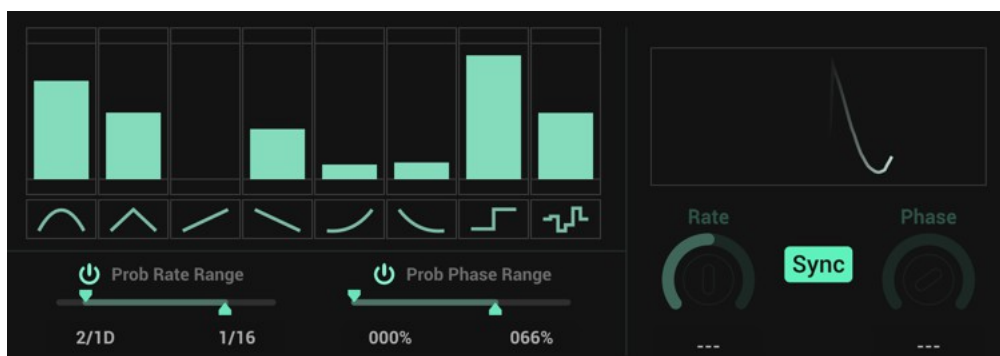
R : randomize step slider values

C : clear all step slider values

< : rotates step values left

> : rotates step values right

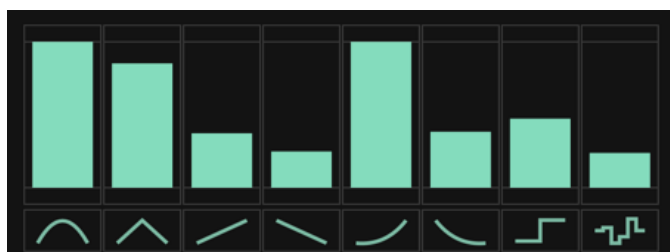
P-LFO



Probability based LFO

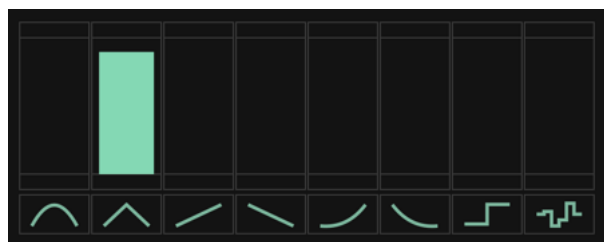
Triggered waveform, lfo speed and phase can be controlled by probability.

Waveform control

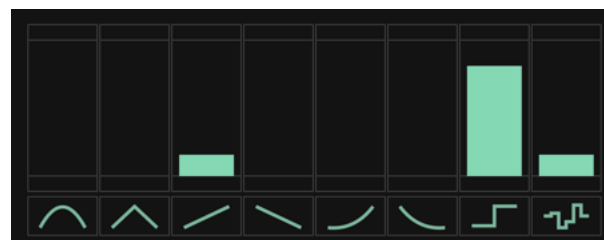


You can set the weight of each waveform triggered probability here.

Example:

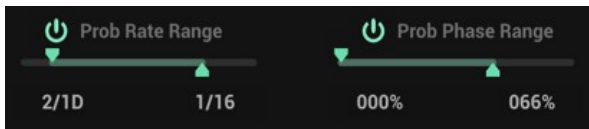


In this case, only triangle waveform will be triggered.



In this case, most likely rectangle and sometimes up or random waveform will be triggered.

Rate/Phase control



You can set the range of lfo rate and phase here.

If these range control is active, these values will be randomized within its range per each cycle period.

S-LFO



Sequencer controlled LFO

You can trigger different waveform with different rate per step.

Step LFO Control



Waveform Selector :

Pick a waveform then click a step slider, you can change step waveform.

You can also change step waveform with right-right menu

Step Lock : toggles the lock state on/off

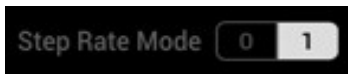
if lock is on, that step will ignore waveform change or randomize

Step On/Off : toggles the step on/off state

Step Rate : sets the lfo speed of a step

Step Rate

There are 2 step rate modes.



Mode1:



In this mode, step rate is independent from the sequencer speed of the step lfo. (except slave rate)

In the picture left, step rate of first step is "Slave".

This case sequencer speed is "1/8", so step rate of the first step is "1/8".

Step rate value of the second step is "1/16", so 2 periods waveform will be triggered at this step.

Mode2:



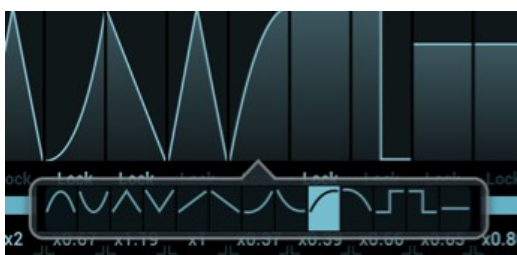
In this mode, step rate is relative to the sequencer speed of a step lfo.

In the picture left, step rate value of the first step is "x1". This means "sequencer speed of step lfo x1". So actual speed of this step is "1/8".

Step value of the second step is "0.5", so in this case actual step rate is half speed of

the sequencer speed of the step lfo.

Right-click Waveform Select



You can change a waveform of each step with right-click menu.

Sample and hold



Sample and hold

Capturing source signal and holds it for the defined interval.

Source :

Waveform : sets the source waveform

Rate : sets the rate of the source signal

Sync : turn on/off bpm synced state

Phase : sets the start phase position

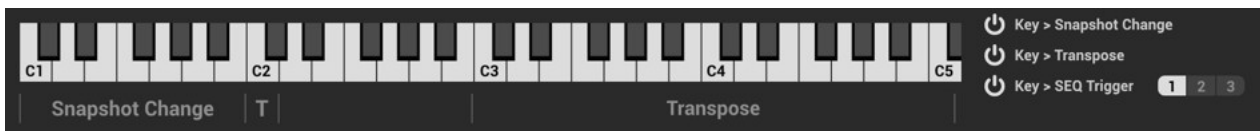
Sample & Hold:

Rate : sets the sampling interval

Sync : turn on/off bpm synced state

Smooth : smoothness of the sample&hold output

Keyboard Control



You can control snapshot change, transpose change and sequencer trigger via midi note inputs.

Key > Snapshot

You can change snapshot with note value C1 to B1.

Key > Transpose

You can change transpose value with C3 to C5.

C4 = +/- 0

C3 = -12 semitones

C5 = +12 semitones

Key > SEQ Trigger

You can control sequencer trigger with C2 note.

There are 3 trigger modes.

Mode1 :

You can trigger/stop sequencer with note on message.

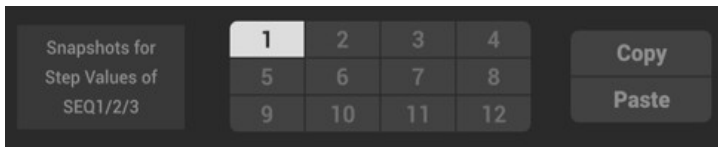
Mode2:

Once receiving note on message, sequencer starts to run and continue to run while C2 note is pressed.

Mode3:

Each note on message trigger one clock.

Snapshot



You can make 12 snapshots of step values of SEQ1/2/3.

Copy/Paste Snapshot

- 1, select a snapshot you want to copy
- 2, click "**Copy**" button
- 3, select a snapshot you want to paste to
- 4, click "**Paste**" button

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