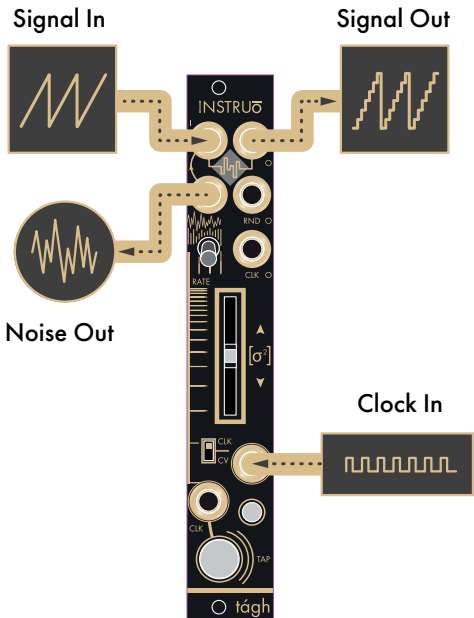




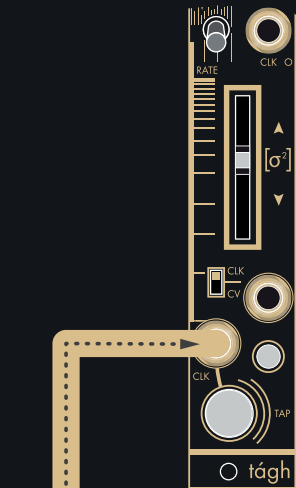
INSTRUO | SPECIALIST
SYNTHESIZERS

tàgh
Hybrid Random Voltage Generator

Analogue Sample & Hold



Clock In



(or)



Tap

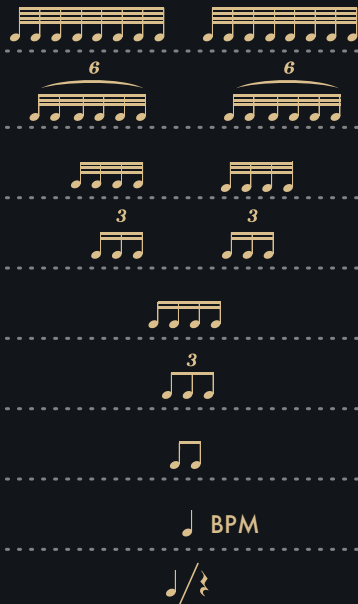
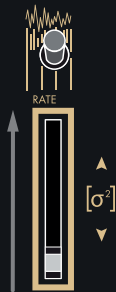


Internal BPM

♪ =

External
Dynamic Phase
Alignment

Subdivision Probability



Increasing Fader

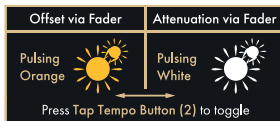
Increase available range
of subdivisions and
increase probabilistic
chance of
new subdivisions

Button Combinations



Factory Reset - Press and hold both **Shift Button (1)** and **Tap Tempo Button (2)** and switch **Random Toggle (3)** up and down 3 times.

Offset and Attenuation - Press the **Shift Button** 3 times and hold it on the third press. Press **Tap Tempo Button (2)** to toggle.



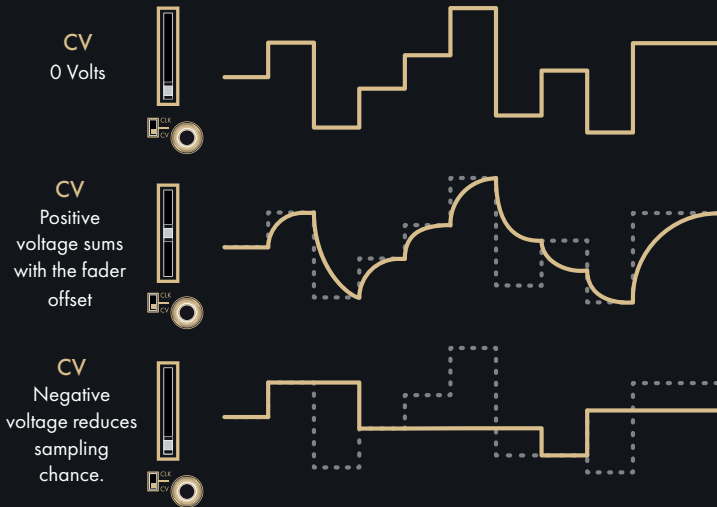
Algorithm Selection - Press and hold the **Shift Button (1)** to display the currently selected random algorithm.

Shift Button (1) and **Tap Tempo Button (2)** will cycle through algorithms. Algorithms are expressed by animated LED cycles. Ascending patterns indicate 1, 2 and 3. Descending patterns indicate 4, 5 and 6.

LEDs	Algorithm 1 - Classic Stepped Random	Algorithm 2 - Repeatable Stepped Random	Algorithm 3 - Chaos
LEDs	Algorithm 4 - LFO	Algorithm 5 - Probability - Synced LFO	Algorithm 6 - Downsampled LFO

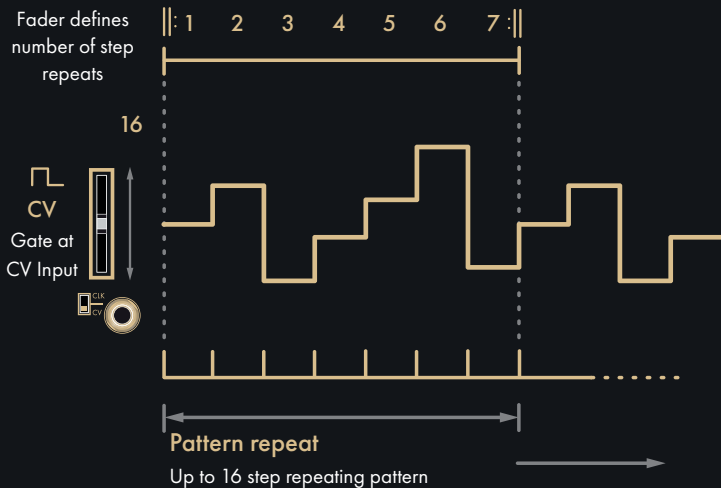
Algorithm 1 – Classic Stepped Random

Digitally generated random steps derived from pseudo-random number generation. This is the most “traditional” random algorithm.



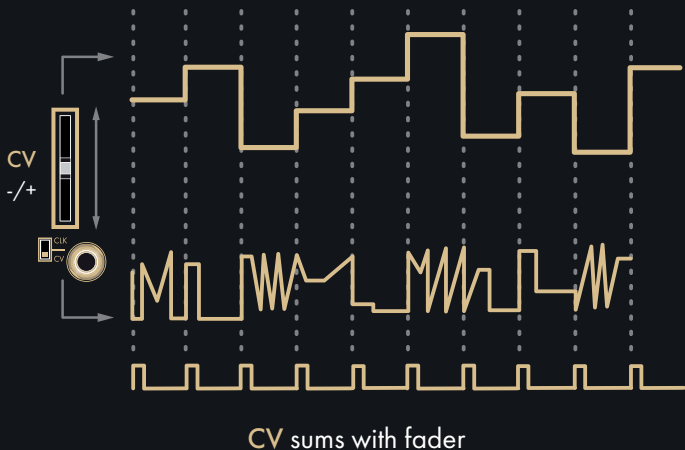
Algorithm 2 – Repeatable Stepped Random

Digitally generated random steps derived from pseudo-random number generation.



Algorithm 3 – Chaos

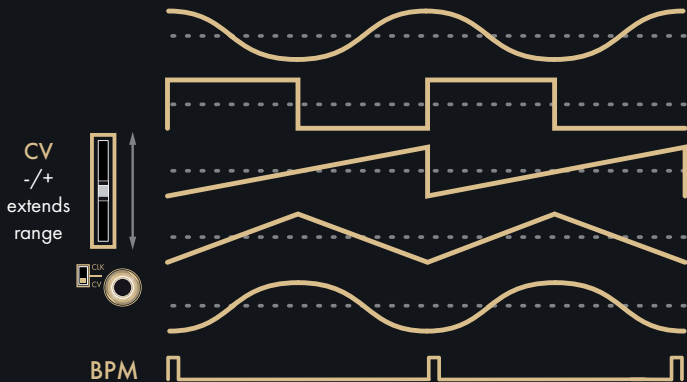
On each clock cycle, the algorithm might flutter, cycle, wobble, produce a random control voltage, or drift.
Best suited for slower tempo clocking.



Algorithm 4 – LFO

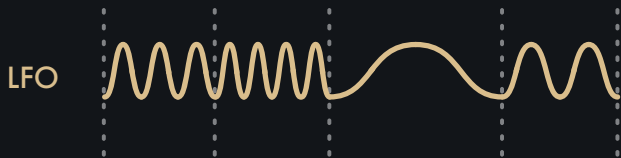
LFO rate matches the tempo, but is not phase-aligned.
Tempo/frequency changes are fully interpolated and completely smooth.

Waveshape Interpolation



Algorithm 5 – Probability-Synced LFO

LFO rate matches the rhythmically-relevant subdivisions if the clock probability engine is enabled. Functionally, this algorithm is the same as Algorithm 4, but the LFO frequency will adapt and follow the rhythmically-related subdivisions.



CV
-/+
extends
range



Waveshape Interpolation (Same as Algorithm 4)

Algorithm 6 – Downsampled LFO

LFO rate matches the tempo, but is not phase-aligned.
Tempo/frequency changes are fully interpolated and completely smooth.

