HYPJOLIN

USER GUIDE

The Hypjolin is a cross-modulating ultra-chaos generator device which combines Rob Hordijk's Benjolin and Ian Fritz's Hypster circuits.

By merging the Benjolin's stepped chaos with the Hypster's smooth, fluctuating chaos, the Hypjolin produces remarkably unpredictable, yet controllable sonic outcomes.

The integration of these two systems is facilitated through a banana jack patchbay, with blue banana jacks representing Benjolin outputs and purple ones denoting Hypster outputs. The black jacks serve as inputs. The patch bay is spaced for use with shorting bars.

THE HYPSTER

The Hypster is an electronic fourth-order hyperchaos generator. Hyperchaos is chaos on steroids, with the mathematical divergences being generated in more that the usual single dimension. This module can produce signal waveforms varying from simply periodic to complicated multiperiodic to extremely dense and complex, both in the low frequency control range as well as up into audio frequencies. With an eight-signal output it can simultaneously control a large number of parameters or generate multiple audio waveforms for individual processing.

— IAN FRITZ

THE BENJOLIN

The Benjolin is a "noise box" that is "bent by design", meaning that it always has a definite amount of unpredictability while it is still intuitive to play. The Benjolin features two eighteen-octave range voltage controlled oscillators that drive a "rungler" circuit, circuitry that in essence uses a special interference technique feeding back into the oscillators to force them into wild chaotic behaviour.

A special slightly chaotic filter is both excited and modulated by the signals from the rungler circuitry processes, producing sounds between fat drones to grungy noise havoc.

— ROB HORDIJK

BANANA TO 6.35 MM JACK ADAPTER

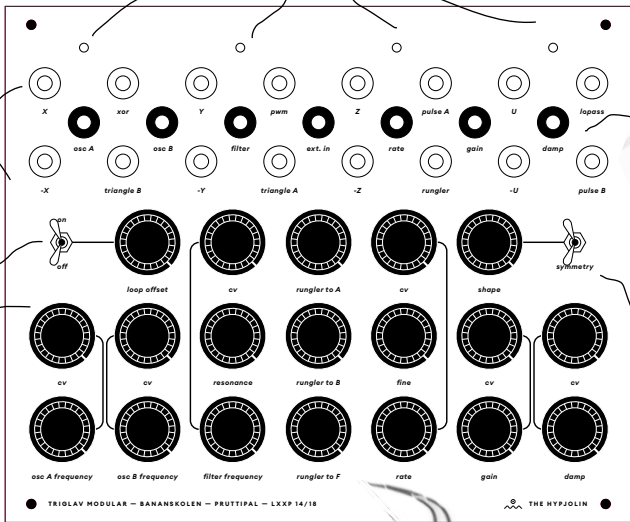Passive, can be used for input or output.

BANANA GROUND

ON-OFF SWITCH

POWER JACK
9–18 VDC / 2.1 MM

X–Y–Z–U LEDS

PATCH BAY

| X | xor | Y | pwm | Z | pulse A | U | lopass |

| osc A | osc B | filter | ext. in | rate | gain | damp |

| -X | triangle B | -Y | triangle A | -Z | rungler | -U | pulse B |

LOOP SWITCH

When turned on, turning the loop offset knob clockwise or anti-clockwise locks the rungler in a loop.

on
off

loop offset

cv

rungler to A

cv

shape

symmetry

CONTROL VOLTAGE ATTENUATORS

These knobs attenuate the signals patched into the black bananas in their column.

cv

cv

resonance

rungler to B

fine

cv

cv

RUNGLER

The rungler is hardwired to three destinations, Oscillator A, Oscillator B and the Filter.

osc A frequency

osc B frequency

filter frequency

rungler to F

rate

gain

damp

SHORTING BARS

Use Pomona 5145s for low profile action or Pomona MDP-Ss for stacking bananas.

WAVESHAPE CONTROL & SYMMETRY SWITCH

The symmetry switch controls the waveform symmetry, while the shape knob can morph beween "slim" and "fat". Damping and gain also affect the waveshape.

TRIGLAV MODULAR — BANANSKOLEN — PRUTTIPAL — LXXP 14/18

THE HYPJOLIN

—JOLIN SECTION

CV inputs are the first three black jacks. Outputs are the blue jacks.

HYP— SECTION

CV inputs are the last three black jacks. Outputs are the purple jacks. (X Y Z U)

that super good..

that super good..

cofusion is good..