

TRIGLAV MODULAR — BANANSKOLEN — PRUTTIPAL — LXXP 14/18

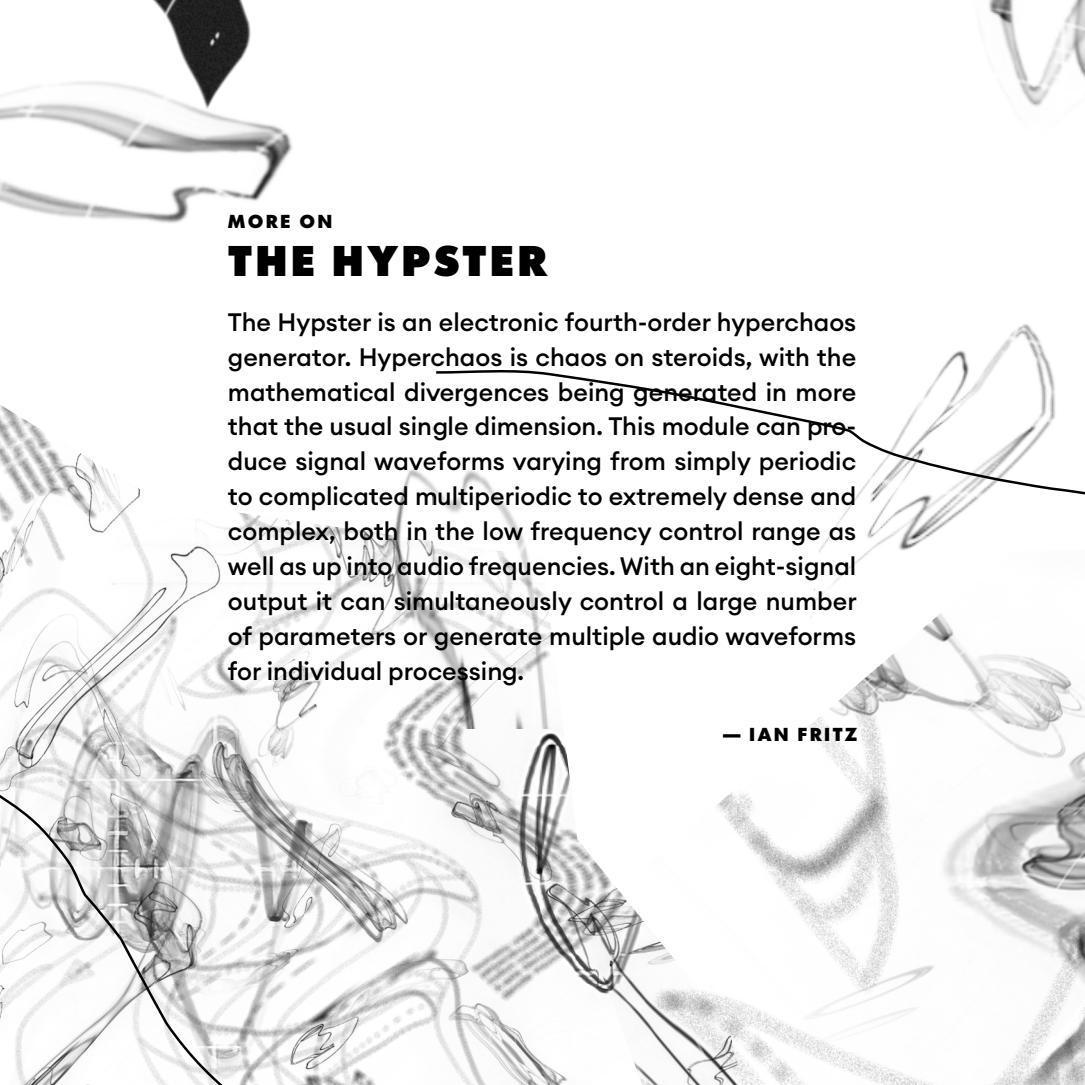
HYPJOLIN

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.



MORE ON

THE HYPSTER

The Hypster is an electronic fourth-order hyperchaos generator. Hyperchaos is chaos on steroids, with the mathematical divergences being generated in more than 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

MORE ON

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

OVERVIEW

BANANA TO
6.35 MM JACK
ADAPTER

Passive, can be used
for input or output.

BANANA GROUND

POWER JACK
9-18 VDC / 2.1 MM

ON-OFF
SWITCH

PATCH BAY

X-Y-Z-U LEDs

LOOP SWITCH
When turned on, turning the loop
offset knob clockwise or counter-clock-
wise locks the rundler in a loop.

CONTROL VOLTAGE
ATTENUATORS
These knobs attenuate the
signals patched into the block
bananas in their column.

RUNGLER
The rundler is hard-wired to
three destinations: Oscillator A,
Oscillator B and the Filter.

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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. (XYZU)

The symmetry switch controls the
waveform symmetry, while the
shape knob can morph between
“slim” and “fat”. Damping and
Gain also affect the waveshape.

SHORTING BARS

Use Banana Solder for
patch cables. Use Banana
Mop-Sa for stacking bananas.

WAVESHAPE CONTROL
& SYMMETRY SWITCH

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Circuit and design files can be found at:
<https://github.com/triglav-modular/Hypjolin>

