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voldeLAY MK I [v 0.7]



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voldeLAY is a stereo lookahead volume dependant delay chain. [4 inputs, 2 outputs]

8 daisy-chained stereo delays with independant delay times automatically cross-fade between themselves depending on the level of the input. Each delay has controls for delay time and threshold, above which the delay fades in according to the crossfade time. All 8 time and threshold values are scalable via multiplier and sensitivity controls with an LFO for each. Feedback applies to all delays equally and a post effect mix knob provides dry/wet controls. The number of delays in the chain can be switched between 4 and 8, the threshold response can be inverted, and the inputs can be wired in series or parallel. Look-ahead of upto 2 seconds, and the sidechain/trigger input can be toggled between inputs 1&2 and 3&4.

Controls :

BLUE KNOBS : Each blue knob represents a delay unit, of which there are 8



blue centre : delay time [0 to 1]
silver ring : threshold [-60 to 0 db]

Each delay unit has a led associated with it. When this led is lit, the unit outputs a delayed signal, when unlit an non-delayed signal. The chain is ordered left to right, top to bottom : so the top row of blue knobs shows units 1,2,3 & 4 and the bottom row 5,6,7 & 8. The leds show the mix between input and delayed output for each of the delay units.

GREEN KNOB :



crossfade time [0 to 250 ms]

When any delay unit's trigger input crosses its threshold, this is the time it takes from the unit to crossfade from its input to its delayed output.

PURPLE KNOB :



purple centre : delay range [0 to 2 seconds]
ring : threshold sensitivity [0 to 2, default:1]

REB KNOB :



red centre : feedback - all delays in the chain use this setting
silver ring : mix - left = dry / right = wet - the mix between the sum of the delays and the original input signal

INPUT CONFIG :



small green knob : lookahead time [0 to 2000ms] - time offset of the envelope used to mix between delays
led : when lit, the envelope follows inputs 3&4, when unlit inputs 1&2.

MODE SETTING :



TOP : off = normal operation, on = inverted operation [threshold response]
MIDDLE : off=parallel mode, on = series mode
BOTTOM : off = 4 delays in chain, on = 8 delays in chain.

In parallel mode, each unit receives :

- main effect input - this gets delayed to become the wet signal
- previous unit's output - this is the 'local dry' signal

In serial mode, each unit receives :

- previous unit's output - this gets delayed to become the wet signal
- previous unit's output - this is the 'local dry' signal

LFOs :



2 PAIRS OF SMALL PURPLE & GREEN KNOBS
TOP PAIR MODULATES DELAY RANGE
BOTTOM PAIR MODULATES THRESHHOLD SENSITIVITY
green = rate [0 to 2 Hz]
purple = depth [0 to full]

Credits :

voldeLAY was designed & built by **Daz Disley** using **SynthEdit**.

voldeLAY makes use of modules by David Haupt and Peter Schoffhauzer.

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