



SINEVIBES

MALFUNCTION CIRCUIT-BENT FILTER

INTRODUCTION

Malfunction is a “circuit-bent” filter - a filter with intentionally broken connections and erroneous math that produces very special, hissy and screaming distortion. To tame this dramatic effect the plugin includes a low-pass pre-filter with a booster, as well as an output gate followed by a multi-mode filter. **Malfunction** also has two highly versatile tempo-synchronized modulation generators routed into the circuit-bent and the output filters for intricate morphing and pulsations: they feature many different waveforms including our special “broken triangle” and “staircase”. Plus, these modulators also offer variable chaos control which gradually adds random, never-repeating accents on each individual waveform cycle.

Malfunction has an intuitive user interface built with Sinevibes trademark color-coded, animated graphics and highly legible shapes and text. Thanks to carefully tuned parameters, superb efficiency and stability, **Malfunction** is a deeply creative tool that is also very enjoyable day to day.

SOUND ENGINE

- Unique “circuit-bent” filter algorithm producing thick, hissy and screaming distortion.
- Multi-mode state-variable filter with 8 algorithms for detailed output spectrum shaping.
- Two modulation generators with 10 waveforms and variable chaos.
- Transport sync with support for tempo and time signature changes.

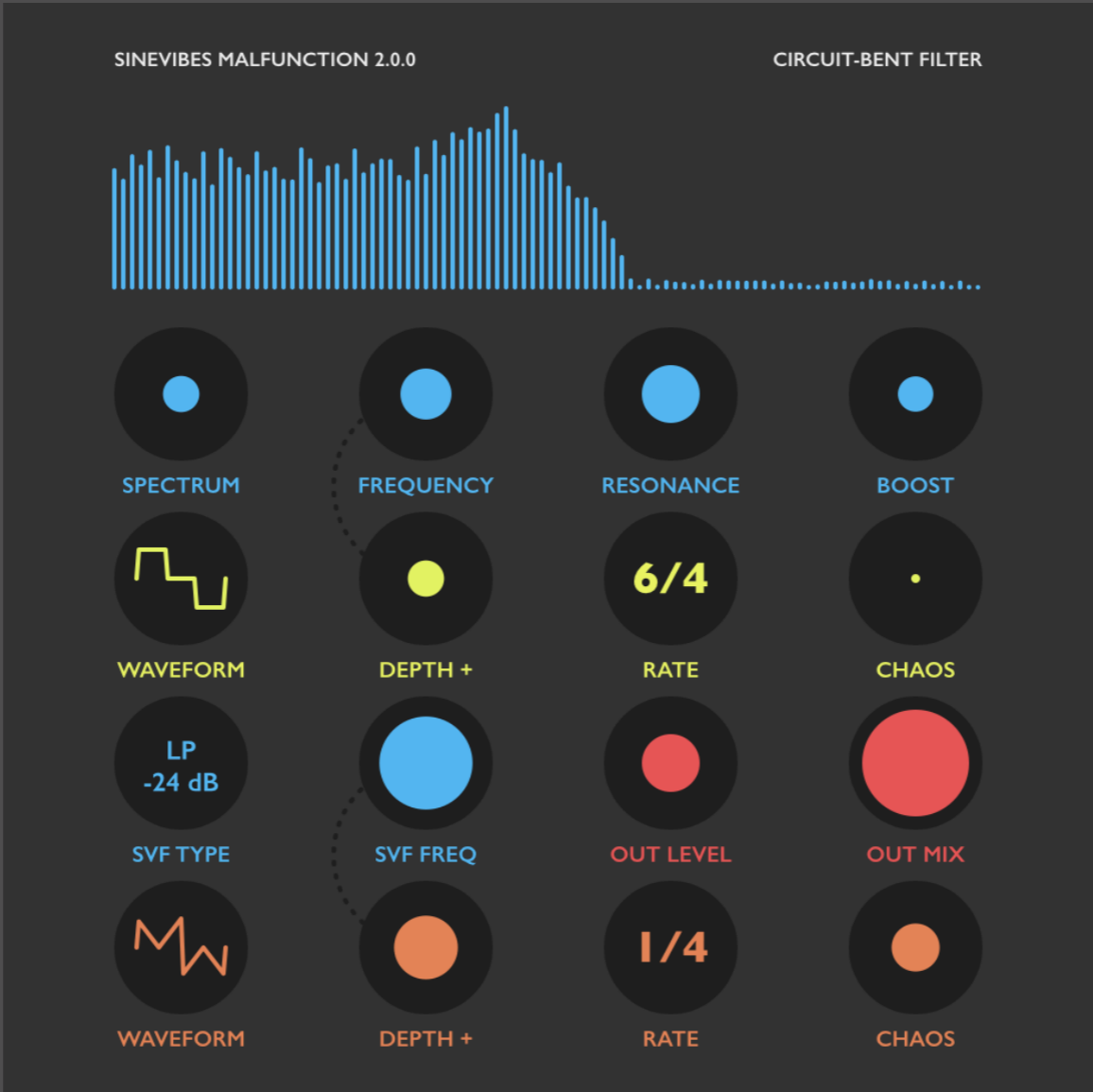
USER INTERFACE

- Color-coded controls with lightly animated transitions.
- Fully hardware-accelerated rendering with support for Retina screen resolution.

COMPATIBILITY

- Works with any application that supports Audio Unit effect plugins.
- Supports OS X 10.6 or later running on 32 or 64 bit Intel Macs.

INTERFACE BREAKDOWN



CIRCUIT-BENT FILTER
PARAMETERS

FANCY
GRAPHIC

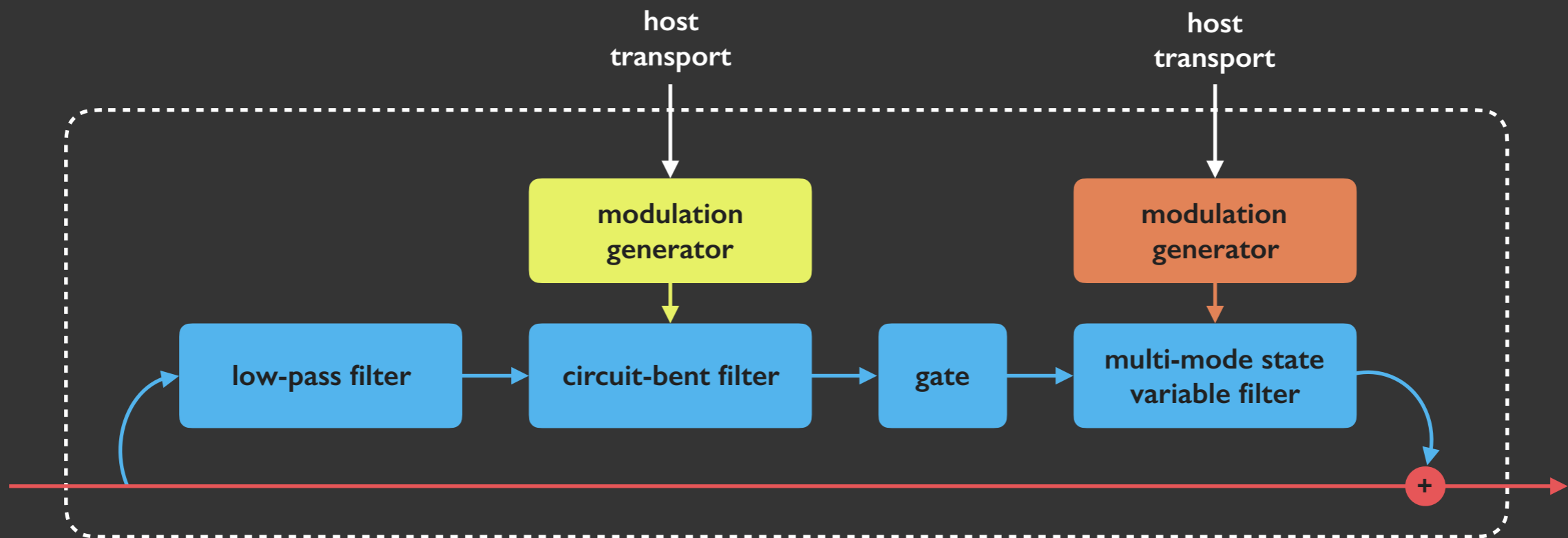
STATE VARIABLE FILTER
PARAMETERS

CBF MODULATOR
PARAMETERS

OUTPUT
PARAMETERS

SVF MODULATOR
PARAMETERS

STRUCTURE DIAGRAM



CONTROLS

SPECTRUM	Input low-pass pre-filter frequency (20...20,000 Hz): adjusts the harshness of CBF's top end.
FREQUENCY	Circuit-bent filter frequency (20..20,000 Hz).
RESONANCE	Circuit-bent filter resonance (0..100%): adjusts the intensity of the pitched CBF tone.,
BOOST	Circuit-bent filter internal signal level boost (0.25..3.0x).
WAVEFORM	Modulation generator waveform: <i>sine, triangle, saw, square, pulse, trapezoid, notch, broken triangle, broken saw, 3x staircase, 4x staircase.</i>
DEPTH	Circuit-bent filter frequency modulation depth (bipolar control: negative value will invert the waveform).
RATE	Modulation generator rate as a tempo fraction (8 bars to 1/32 note).
CHAOS	Modulation generator per-cycle level randomization depth (0..100%).
SVF TYPE	Output state variable filter: <i>low-pass, high-pass, band-pass</i> or <i>band-reject</i> in -12 and -24 dB/octave versions.
SVF FREQ	State variable filter frequency (20..20,000 Hz).
OUT LEVEL	Wet effect output level (0..100%).
OUT MIX	Balance between dry input signal (0%) and wet effect output (100%).
WAVEFORM	Modulation generator waveform: <i>sine, triangle, saw, square, pulse, trapezoid, notch, broken triangle, broken saw, 3x staircase, 4x staircase.</i>
DEPTH	Circuit-bent filter frequency modulation depth (bipolar control: negative value will invert the waveform).
RATE	Modulation generator rate as a tempo fraction (8 bars to 1/32 note).
CHAOS	Modulation generator per-cycle level randomization depth (0..100%).

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