



SINEVIBES

**WHIRL** BARBER-POLE PHASER

# INTRODUCTION

**Whirl** is a plugin for creating “barber-pole” phaser effects – with spectrum sweeps that go upwards or downwards in a seemingly endless fashion. It includes two distinctly different modes: first is a classic phaser based on the Bode frequency shifter that creates dramatic, wide-range spectrum swirls. Second mode is our unique development: a barber-pole all-pass phaser which uses three sound layers coupled with six modulation oscillators, producing a much more full-bodied effect with distinct resonant peaks. Both phasers in **Whirl** employ “through-zero frequency” modulation design for silky smooth transition between upwards and downwards sweeps, plus they can have negative feedback for a more unusual, artificial character.

## SOUND ENGINE

- Barber-pole Bode phaser with positive/negative feedback.
- Barber-pole all-pass phaser with 4, 5, 6, 7 or 8 stages, positive/negative feedback.
- Through-zero frequency modulation design for seamless transitions between upwards and downwards spectrum sweeps.
- Variable modulation phase offset for stereo widening or full spectrum inversion between the channels.

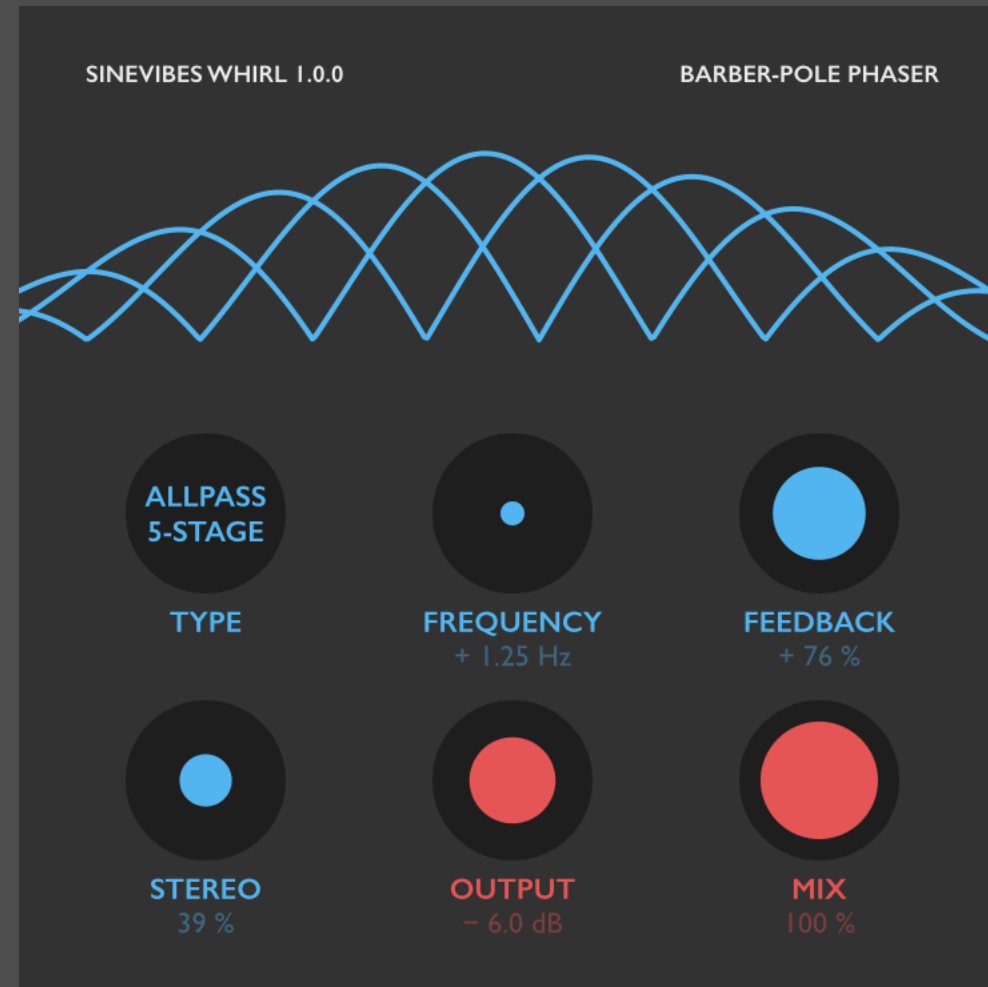
## GRAPHIC INTERFACE

- Color-coded graphics with subtle animations.
- 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



FANCY GRAPHIC

BARBER-POLE PHASER PARAMETERS

OUTPUT PARAMETERS

# CONTROLS

- TYPE** Barber-pole phaser type: BODE SHIFT based on Bode frequency shifter or ALLPASS based on triple layered all-pass filters with 4, 5, 6, 7 or 8 stages.
- FREQUENCY** Barber-pole modulation frequency: -10 to +10 Hz. Positive values produce endless downward motion, negative values produce endless upward motion.
- FEEDBACK** Phaser feedback: -90 to +90 %. Positive values produce a thicker sound with more pronounced feedback resonance peaks. Negative values produce a less bottom-heavy, less resonant sound with a more “warped”, artificial low and mid range.
- STEREO** Modulation phase shift between left and right channels: 0 to 100% (from identical to full phase inversion on the right channel). Only effective when the plugin is configured in mono > stereo or stereo > stereo.
- OUTPUT** Phaser output level: from mute to 0 dB.
- MIX** Balance between “dry” unprocessed signal and “wet” processed signal: from 0% (dry input only) to 100% (wet phaser output only).

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