



SINEVIBES

DIPOLE THROUGH-ZERO FLANGER

INTRODUCTION

Dipole by Sinevibes is a through-zero flanger effect. It employs two separate playback timelines for input audio, one of them being able to run earlier or later in time in relation to another - plus a trick feedback loop. And the actual magic happens when you adjust this time difference and go through the zero point. With positive feedback, **Dipole** produces that coveted spectral “swoosh” effect of a jet plane fly-by; and with negative feedback the output warps and eventually cancels itself out. In the old days, such effects were created “offline” using two tape machines - but now **Dipole** lets you have those charismatic sounds inside your DAW, and with much higher fidelity.

Dipole has an intuitive user interface wholly built with color-coded graphics and subtle animations. Together with carefully tuned parameters, this highly musical effect also gives you an enjoyable and inspiring user experience.

SOUND ENGINE

- Stereo flanger with bipolar feedback and through-zero time capability.
- Low-frequency modulation generator with sine, triangle and trapezoid waveforms.
- Stereo modulation phase shift for variable stereo field widening.

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

SINEVIBES DIPOLE 1.0.0

THROUGH-ZERO FLANGER

FANCY GRAPHIC

THROUGH-ZERO FLANGER PARAMETERS

MODULATION PARAMETERS

OUTPUT PARAMETERS

Parameter	Value
ZERO	+ 0.30 ms
FEEDBACK	- 70 %
OUTPUT	- 6.0 dB
MIX	100 %
DEPTH	65 %
FREQUENCY	+ 0.30 Hz
WAVEFORM	TRIANGLE
STEREO	15 %

CONTROLS

- ZERO** Relative delay time between two input signal timelines: -3 ms, through zero, to +3 ms.
- FEEDBACK** Flanger feedback: -99 to +99 %. Positive feedback makes a thicker, more pronounced sound emphasizing fundamental and odd harmonics. Negative feedback produces a thinner, hollow sound emphasizing even harmonics with signals cancelling out at zero time.
- OUTPUT** Wet flanger output level: from mute to 0 dB.
- MIX** Balance between wet flanger output and dry unprocessed input: from 0% (dry input only) to 100% (wet flanger output only).
- DEPTH** Delay time modulation depth: 0 (none) to 100% (full time range).
- FREQUENCY** Modulation generator frequency: -10 to +10 Hz.
- WAVEFORM** Modulation generator waveform: sine, triangle, trapezoid.
- STEREO** Modulation phase shift between left and right channels: 0 (none) to 100% (full phase inversion on the right channel). This control is only effective when the plugin is configured in mono > stereo or stereo > stereo.

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