

Centripidity

Poly Flangulator



Introduction

The *Flangulator* is, in some ways, a variation on the traditional flanger effect but with some major differences. Normally a flanger effect is created by combining the input signal with a slightly delayed version of itself which produces a comb filter effect. If the length of that delay is modulated, with a sine wave for example, then the comb filter sweeps back and forth producing the familiar flanger effect. The intensity of the effect can be varied by controlling how much of the delayed signal is fed back into the original.

The *Flangulator* differs from a traditional flanger in two ways:

1. It is not the length of the delay that is modulated but the feedback strength.
2. The modulation is non-linear. It involves sweeping through an angle from $0 - 2\pi$ in the Complex Plane.
3. Rather than being modulated by an internal LFO, the Flangulator has no internal modulation generator but an external CV input. In this way any voltage source can be used to sweep the filter, an LFO or perhaps an Envelope Follower.

Unlike the original Centripidity Flangulator, this version processes polyphonic audio signals.

New in Version 1.2

Version 1.2 introduces a new, polyphonic CV input so that each of the poly voices in the audio feed can be modulated differently via their own envelope shapers, LFOs or Envelope Followers.

The existing mono CV input remains but it is overridden if a cable is plugged into the poly-CV socket.

The Interface

