Modulation Delay VST

Thank you for selecting Modulation Delay VST.

Modulation Delay VST provides improved audio quality and a robust featureset for commonly used delay effects like flanging and chorusing.

Specifications:

Stereo delay line with Hermite interpolation
Phase discretised modulation of left and right channels for "wide" stereo modulation
Sine and Triangle modulation contours
Cross channel feedback

Modulation rate:
- Unsynced: 27.5 Hz to ~75 sec
- Synced: 1/16th note to 64 measures

Two depth modes: 0-10 ms and 0-500 ms

Inline cubic softclipper for overdriving regeneration

Two feedback range modes:
- Regular: 0 to unity gain
- Boost: 0 to 2x unity gain

Simultaneous inline filters: highpass, lowpass, allpass

Assignable secondary modulator (27.5 Hz to ~75 sec only)

Three quality modes to select cpu and algorithm performance:
- Low: Linear delay line interpolation, economised modulation
- Med: Hermite interpolation, high-res modulation
- High: Hermite interpolation, 2x oversampling

The primary modulator parameter mod is scaled to the length of the delay depth so that there is no need to readjust it if the delay is shortened.

Maximum delay time is 65533 samples (halved with 2x oversampling, for ~743 ms at 44.1 kHz).

Both modulators are reset to initial phase position on host transport to produce recallable performance. The phase parameter for the primary modulator (on the center panel) is only applied at transport initialization or activation of the sync button.

Cross feedback is intended to be used in combination with standard feedback to add harmonic coloration to flanging. Using both simultaneously will not overload the delay line due to the inline softclipper. Once an initial signal is received, the delay line can be used as a tone generator. Hermite interpolation has significantly less high frequency attenuation than linear interpolation. The boost option can be used in combination with the high- and lowpass filters so as not to limit the duration of the tone.

The allpass filter has the most timbral effect in the leftmost position, applied with short delay times.

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Modulation Delay VST was created with SynthEdit SDK - www.SynthEdit.com

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