



TECHNICAL MANUAL

SolaraEcho is not a traditional delay. It blends rhythmic delay, shimmer diffusion, and stereo motion. It intentionally allows for aggressive behavior at extreme settings.

Gain

Input gain into the delay engine.
Higher values drive feedback and diffusion stages harder.

Sync

Engages tempo-synced delay mode.

Mix

Dry/Wet balance of delay engine.

Rev Mix

Controls amount of diffusion/reverb blended into delay tail.

Crystal

Controls pitch-shifted diffusion intensity.
At higher values it becomes more experimental.

Width

Stereo spread of repeats.

Duck

Applies input-sensitive ducking compression to delay tail.

Rev Size

Controls virtual diffusion space size.

Delay

Delay time (milliseconds when unsynced, note division when synced).

Feedback

Controls regeneration amount.
Higher values can self-oscillate at extreme settings.

Tone

Tilt-style filtering of repeats.
Lower = darker.
Higher = brighter.

Shimmer

Introduces octave-up harmonic feedback within reverb tail.

Diffuse

Controls density of reverb smearing applied to delay tail.

Magic

Secondary modulation layer applied to feedback loop.
Introduces subtle pitch and movement variation.

