

Echo Clock Manual v1.0

Delay, Chorus, Saturation & Reverb — All in One Plugin



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1. Introduction

Echo Clock is a delay, chorus, saturation, and reverb plugin designed to capture the musical character of early analog delays while maintaining a fast, modern workflow.

From tight slapbacks to wide ping-pong patterns and lush ambience, Echo Clock delivers warm tone, flexible stereo control, and instant results through 120 curated presets.

Why Echo Clock

- Familiar analog flavor with modern speed
- Delay, modulation, saturation, and reverb in one lightweight plugin
- Simple controls that invite quick experimentation
- 120 professionally designed presets

2. Compatibility

Plugin Formats: VST3, AU, AAX (64-bit)

Platforms: macOS 10.11 and up (Apple Silicon native), Windows 10 and newer

DAWs: Compatible with all major DAWs — Ableton Live, Pro Tools, Logic Pro, GarageBand, FL Studio, Cubase, Studio One, Reaper, Bitwig, Reason, and more.

3. Installation

macOS

1. Extract the ZIP archive.
2. Double-click the PKG installer.
3. Follow the on-screen instructions.

Windows

1. Double-click the EXE installer.
2. Follow the on-screen instructions.

4. Install Locations

macOS

- AU: `/Library/Audio/Plug-Ins/Components/`
- VST3: `/Library/Audio/Plug-Ins/VST3/`
- AAX: `/Library/Application Support/Avid/Audio/Plug-Ins/`
- Presets: `/Users/Shared/Audio Hertz/Echo Clock/`

Windows

- VST3: `C:\Program Files\Common Files\VST3\`
- AAX: `C:\Program Files\Common Files\Avid\Audio\Plug-Ins\`
- Presets: `C:\Users\Public\Public Documents\Audio Hertz\Echo Clock\`

5. Demo and Authorization

After purchase, you'll receive a license key by email. You can also access it anytime from your Audio Hertz account.

Enter the license key in the authorization window the first time you open Echo Clock.

Demo Mode: The demo outputs 5 seconds of silence every 60 seconds. Purchase the full version at audiohertz.com/echoclock to remove demo limitations.

6. Quick Start

1. Insert Echo Clock on a track or bus.
2. Choose a preset from the Preset Drawer to start.
3. Adjust **Delay Time** — use **Sync** for tempo-based timing or turn it off for free-running milliseconds.
4. Increase **Feedback** to add more repeats. Around 25–35% is a natural starting point.
5. Adjust **Delay Mix** to set the balance of the delayed signal.
6. Add **Ping-Pong** for stereo width and motion.
7. Enable **Lo-Fi Mode** for 12-bit crunch and vintage grit.
8. Add **Saturation** for warmth or drive. Choose whether it affects the input signal or only the delay line.

9. Blend **Chorus** for movement and **Reverb** for depth.

7. Controls

Delay Time

Sets delay time from 1 to 3500 ms. In **Sync** mode, this becomes note values like 1/4, 1/8, dotted, or triplet.

Sync

Toggles tempo synchronization. When on, delay times lock to project tempo. When off, times are in milliseconds.

Delay Mix

Adjusts the balance between the dry signal and the delayed repeats only, without affecting reverb, saturation, or chorus.

Feedback

Controls how much of the delayed signal feeds back into the input. Higher values create more repeats and intensity. Extreme values may self-oscillate.

Ping-Pong

Controls stereo motion between left and right channels.

- 0% – mono repeats, centered
- 50% – partial crossfeed for subtle stereo motion
- 100% – full alternation between left and right channels

Lo-Fi Mode

Applies lower bit depth and sample rate to the delay line for authentic early digital coloration. Expect crunchy transients and softened highs.

Filters

High and low-pass filters to sculpt the tone.

Modulation

Adds movement and width by modulating the delay line.

- **Depth** — Determines how much pitch and time variation is applied to the repeats. Higher settings create more noticeable wobble and movement.
- **Rate** — Controls the speed of modulation, from slow drifting motion to fast vibrato-like effects.

Snooz

Tap to set the delay time manually in real-time.

Drive

Adds analog-style drive, with automatic gain compensation.

- **Input Mode:** Affects the input.
- **Delay Mode:** Affects only the repeats.

Chorus

Adds movement and depth.

Reverb

Built-in ambience with two modes:

- **Plate** — Inspired by the EMT 140.
- **Spring** — Modeled after a modified Fender Deluxe spring tank.

8. Presets and Top Bar

- **On/Off** — Master bypass.
- **Info** — Displays version and credits.
- **Control Panel** — One-page view with complete access to all parameters.
- **Preset Drawer** — Browse factory and user presets (120 included).
- **Save Preset** — Save or overwrite your current preset.
- **Random** — Load a random preset for inspiration.
- **Width (M/S)** — Adjusts the stereo width using mid/side processing
- **Dry/Wet** — Global wet/dry for all effects except for delay.

- **Output** — Controls the final output level.

9. Credits

- **Concept:** David Silverstein (Audio Hertz)
- **Code & DSP:** Yuriy Ivantsov
- **Design:** vstdesigns.com
- **Presets:** Audio Hertz, CARRTOONS, Clay Wells Holley, Danny Kalb, Jack Miele, Jimmy DeRosa, SHE-Q, Johnny Morgan, Mark Matter, Mr Hudson, and Soklo

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