ATOMIC LABS

EFFECT

ECHELON

Stereo multi-mode delay

EFFECT · VST3 · WINDOWS 64-BIT · 300 PRESETS · V1.0



USER MANUAL

VERSION 1.0 · 2026

01 About Echelon

Echelon is a stereo delay with eight types: Stereo, Ping-Pong, Cross, Mono, LCR, Reverse, Tape and Diffuse, on two delay lines of up to 4 seconds.

The feedback loop holds filters, drive, lo-fi, diffusion and a soft limiter, so feedback above 100 % stays under control. Changing the time glides like tape, FREEZE holds the loop and CLEAR empties it without a click.

TYPE	FORMAT	SIGNAL	LATENCY
Effect	VST3 · Win x64	Stereo in → stereo out	none

FACTORY PRESETS	CONTROLS	WINDOW	VERSION
300 + Init	20 automatable	Resizable	1.0

02 Quick start

1. Insert Echelon on a send or directly on a track.
2. Choose a Type and set the time in ms or with Tempo Sync.
3. Raise Feedback for more repeats; above 100 % the repeats grow but stay controlled.
4. Press FREEZE to hold the loop, CLEAR to empty it.

INSTALLATION

Install

Copy the folder `Echelon.vst3` into `C:\Program Files\Common Files\VST3\`, then restart your DAW or rescan plug-ins. It appears under the manufacturer **Atomic Labs**.

This manual

A copy of this PDF lives inside the plug-in folder, next to `Contents`. Your DAW ignores it; it is there so the manual always travels with the plug-in.

03 The interface



Time

Delay Time in ms, or Tempo Sync with Sync Division (1/32 to 1 bar, triplets and dotted). Shift offsets left and right for width.

Type

Stereo, Ping-Pong, Cross, Mono, LCR, Reverse, Tape (wow and saturation) or Diffuse (smeared repeats). Type changes fade through.

Feedback loop

Feedback, High-Pass, Low-Pass with Ghost Q (resonance), Drive, Lo-Fi and Diffusion.

Movement

Modulation and Mod Rate for chorus-like movement of the repeats.

Output

Ducking (the delay gets quieter while you play), Width, Mix, Output, Freeze and Bypass.

04 Presets

Echelon comes with **300** factory presets in 10 categories, plus an **Init** program to start from scratch. Every preset was designed for this plug-in and level-matched, so you can browse without jumps in volume.

- **30** Clean Echo
- **30** Ping-Pong
- **30** Tape Echo
- **30** Slapback
- **30** Doublers & Wideners
- **30** Diffuse Clouds
- **30** Reverse
- **30** Lo-Fi & Ghost
- **30** Dub & Infinite
- **30** Rhythmic & LCR

A FEW TO TRY

- Clean Echo
- Vocal Repeat
- Clear Delay
- Bright Echo
- Table Bounce
- Bouncing Pong
- Zigzag Echo
- Dancing Bounce
- Oxide Loop
- Space Machine
- Vintage Tape
- Warm Loop
- Quick Slapback
- Room Snap
- Snappy Echo
- Double Doubler
- Lush Image
- Fat Widener
- Twin Doubler
- Smeared Wash
- Cloud Cloud
- Halo Trail
- Pad Wash
- Inverted Tape
- Swelling Delay
- Reverse Echo
- Backward Tape
- Telephone Delay
- Eight-Bit Signal
- Radio Ghost
- Dub Dub
- Deep Loop
- Spiral Feedback
- Frozen Dub
- Rhythmic Taps
- Dotted Delay

05 Tips

> Vocal throw: Ping-Pong 1/4 dotted, Ducking 50 %, High-Pass at 300 Hz.

> Dub siren: Tape type, Feedback 105 %, move the time while it plays.

06 Atomic Labs essentials

These work the same way in every Atomic Labs plug-in.

Preset browser

Use the arrows next to the preset name to step through the presets, or click the name to open the menu sorted by category. The current category is shown above the name.

SAVE: your presets and banks

SAVE stores the complete state as your own preset (.atp) in Documents\Atomic Labs\Echelon\Presets. From the same menu you can delete presets and export or import a whole bank (.atb) to share or back up. Your presets appear at the end of the preset menu.

DICE

DICE rolls a brand-new patch: it starts from a factory design and changes the main settings at random. Not happy? Roll again, or step back to a preset.

SIZE and resizing

Drag the bottom-right corner to resize the window, or pick a fixed zoom from SIZE. The size is remembered with the project.

Automation

Every control can be automated and is listed with its full name in your DAW. Changes are smoothed, so automation never clicks.

Project recall

The whole state (including drawn waves, patterns, steps and window size where available) is saved with your project.

STABILITY

Every Atomic Labs plug-in is tested at sample rates from 44.1 to 192 kHz and at block sizes from 1 to 8192 samples, before and after the host prepares it, and with every factory preset. The audio code never allocates memory while playing, and signals are protected against invalid values, so it stays quiet and stable in long sessions.

07 Control reference

Every automatable control as your DAW lists it, with its range and default value. Where a set of controls repeats (for example several identical layers, bands or slots), it is shown once.

General

CONTROL	RANGE / OPTIONS	DEFAULT
Type	Stereo · Ping-Pong · Cross · Mono · LCR · Reverse · Tape · Diffuse	Stereo
Delay Time	1.0 ms to 2.00 s	375 ms
Tempo Sync	Off · On	On
Sync Division	1/32 · 1/16T · 1/16 · 1/16D · 1/8T · 1/8 · 1/8D · 1/4T · 1/4 · 1/4D · 1/2T · 1/2 · 1/2D · 1 bar	1/8D
Shift	-100 % to +100 %	0 %
Feedback	0 % to 110 %	45 %
High-Pass	20 Hz to 2.00 kHz	120 Hz
Low-Pass	500 Hz to 20.00 kHz	6.00 kHz
Ghost Q	0 % to 100 %	0 %
Modulation	0 % to 100 %	0 %
Mod Rate	0.05 Hz to 10.00 Hz	0.50 Hz
Lo-Fi	0 % to 100 %	0 %
Drive	0 % to 100 %	0 %
Diffusion	0 % to 100 %	0 %
Ducking	0 % to 100 %	0 %
Width	0 % to 200 %	100 %
Mix	0 % to 100 %	35 %
Output	-24.0 dB to +12.0 dB	0.0 dB
Freeze	Off · On	Off
Bypass	Off · On	Off



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Echelon · Stereo multi-mode delay

Atomic Labs makes original instruments and effects with futuristic, animated interfaces, deep sound design and hundreds of presets in every plug-in.

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