ALEVRB 1.2

Delay / Reverb Router

User guide, installation reference, creative workflow handbook, and technical overview.

ALEVRB 1.2

Flexible delay + reverb routing. Made visible.



Windows + macOS + Linux | VST3 + AU + Standalone

Windows 10/11 – VST3 + Standalone
macOS 10.15+ – VST3 + AU + Standalone
Linux x64 – VST3 + Standalone

Version 1.2.0 | toolingdev.com | hello@toolingdev.com

Make sound in four steps

ALEVRB is designed to be understandable before you read the rest of this guide.

1 Insert ALEVRB

Load the VST3 or AU on an audio track, bus, or return. The standalone app is useful for quick testing.

2 Choose routing

Start with Parallel. Use Delay-Reverb or Reverb-Delay when you want one effect to feed the other.

3 Raise the sends

Turn up Delay Send and Reverb Send. Adjust Time, Feedback, Space, and Decay to shape the result.

4 Balance and animate

Use Input and Output for gain staging. Add Ducking for clarity and Motion for subtle movement.



Install ALEVRB

Keep the complete ZIP as your backup. Copy only the format you actually use.

WINDOWS

VST3 + Standalone

- Extract ALEVRB-Windows-v1.2.0.zip.
- Copy the ALEVRB.vst3 folder to C:\Program Files\Common Files\VST3.
- If you cannot use an administrator account, use %LOCALAPPDATA%\Programs\Common\VST3.
- Rescan plugins in your DAW, then load ALEVRB as an audio effect.
- Run Standalone\ALEVRB.exe when you want to test without a DAW.

Unsigned package

Windows may display a reputation warning until ToolingDev adopts commercial code signing.

MACOS

VST3 + AU + Standalone

- Extract ALEVRB-macOS-v1.2.0.zip.
- Copy ALEVRB.vst3 to ~/Library/Audio/Plug-Ins/VST3/.
- Copy ALEVRB.component to ~/Library/Audio/Plug-Ins/Components/ for Logic Pro.
- Restart or rescan your DAW. Logic uses AU; most other Mac hosts can use VST3.
- The standalone build is in Standalone/ALEVRB.app.

Ad-hoc signed package

Until notarization is available, trusted users may need to control-click the app and choose Open once.

LINUX

VST3 + Standalone

- Extract ALEVRB-Linux-v1.2.0.zip.
- Copy ALEVRB.vst3 to ~/.vst3/ (user) or /usr/local/lib/vst3/ (system).
- Make the standalone executable if needed: chmod +x Standalone/ALEVRB.
- Rescan plugins in your DAW, then load ALEVRB as an audio effect.
- License checks use libcurl (libcurl.so.4), already installed on typical desktops.

No signing prompt

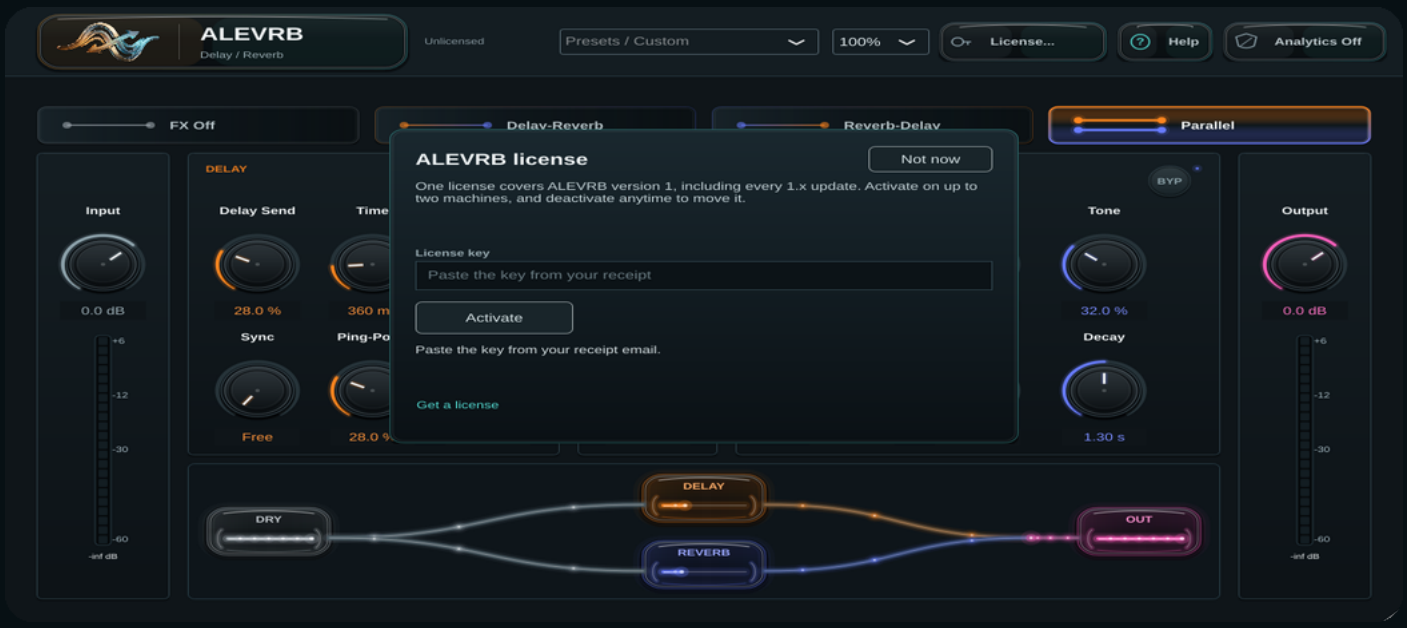
If a license check cannot reach the server, ALEVRB keeps running. The same is true when you have not activated yet.

BEFORE REPLACING AN OLDER BUILD

Close your DAW first. Your host projects and ALEVRB parameter states are stored by the host, not inside the plugin folder. Keep the old ZIP until you confirm that your DAW rescans 1.2.0 successfully. Parameter IDs are unchanged from 1.1, so existing sessions and automation keep working.

Activating ALEVRB

A license is optional. ALEVRB never disables audio processing if a check fails, the computer is offline, or you have not entered a key.



License... button

Open the plugin or the standalone app and choose License... in the top bar. Paste the key from your receipt email and press Activate. The first launch offers this panel once; you can dismiss it with Not now or Escape.

What a key covers

One license covers ALEVRB version 1 forever, including every 1.x update. Keys are issued through Lemon Squeezy. If your purchase includes a key, it arrives in the receipt email.

Two activations

You can activate a key on up to two machines at the same time. Deactivate a machine whenever you replace a computer, and that slot is free to use again.

Deactivate and move

Open License... on that machine and press Deactivate this machine. If you no longer have the computer, deactivate that activation from your receipt or customer account, then activate on the new one.

Always processes audio

ALEVRB keeps processing audio if you have not activated yet. A small Unlicensed label is the reminder. If this computer is offline, or a license check cannot finish, an activation you already completed stays in place, and an unlicensed session keeps running.

Linux and libcurl

On Linux, license checks use libcurl (libcurl.so.4 at run time), which is already installed on typical desktop systems. A request that does not complete leaves the plugin running.

Four routing modes

The selected routing capsule lights up. The lower signal-flow display shows the same path in motion.

FX Off



Dry input passes directly to output. Use this as a level-matched reference.

Parallel



Delay and reverb receive the dry signal independently, then combine at the output.

Delay-Reverb



Delay feeds reverb. Repeats bloom into a connected spatial tail.

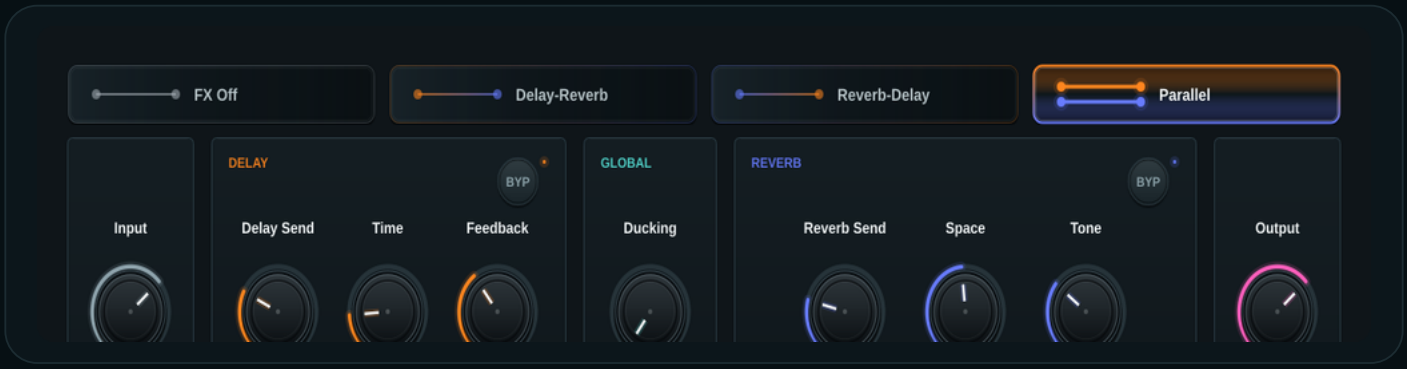
Reverb-Delay



Reverb feeds delay. The atmosphere itself becomes a rhythmic repeat.

Delay controls

The orange controls shape timing, repeats, stereo motion, and repeat tone.



Delay Send	Amount of processed delay signal mixed into the active routing path.
Time	Free delay time in milliseconds. When Sync is active, the musical division determines timing.
Feedback	Amount returned to the delay line. Higher values create more repeats and stronger buildup.
Sync	Free mode or a host-tempo musical division. Standalone uses a stable 120 BPM fallback.
Ping-Pong	Moves feedback from mostly same-channel repeats toward fully alternating stereo repeats.
Color	Darkens or brightens the feedback path. Center preserves the neutral voicing.
Delay BYP	Mutes delay processing without changing routing or your saved delay settings.

Reverb and global controls

Blue shapes the reverb. Cyan controls affect the complete wet field.

REVERB

Reverb Send

Amount of reverb mixed into the active routing path.

Space

Changes perceived size, diffusion, early reflection balance, and tank scale.

Tone

Moves the tail from darker and smoother to brighter and more airy.

Width

Controls stereo spread at the reverb output.

Pre-delay

Adds 0–200 ms before the reverb bloom so attacks can remain clear.

Decay

Sets the target tail time from compact ambience to long evolving spaces.

Reverb BYP

Mutes reverb processing while preserving its settings and routing.

GLOBAL

Ducking

Reduces both wet paths while the dry source is active, then releases musically. Use it to preserve vocal consonants, drum attacks, and rhythmic definition.

Motion

Scales delay wow and reverb-tank modulation together. 0% is stationary, 50% keeps the original movement, and 100% doubles the modulation depth.

Gain staging

Input controls level entering the processor. Output controls the final level. Match FX Off and processed loudness before deciding whether a setting truly sounds better. Aim to avoid sustained red meter segments.

Read the interface while you listen

ALEVRB's visualization is functional: color and motion describe the signal path.



Meters

Input and Output meters descend smoothly. A peak marker holds for 1.25 seconds. The top turns red near clipping.

Signal colors

Gray is dry, orange is delay, blue is reverb, and pink represents a combined wet output.

Bypass

Bypassed modules disappear from the active flow. The remaining fiber still shows that audio continues to output.

License and scale

License... opens activation. A small Unlicensed label remains until a key is activated. The percentage selector sizes the interface from 80% to 125%.

USEFUL HABIT

Toggle FX Off regularly while designing a preset. A louder effect often appears better; level matching helps you judge tone, space, and rhythm instead.

Starting-point recipes

These are intentionally moderate. Adjust by ear for the source, tempo, and role in the mix.

Clear vocal space

PARALLEL

Delay Send 18% | Time 105 ms | Feedback 12%
Reverb Send 24% | Space 42% | Decay 1.4 s
Pre-delay 35 ms | Ducking 35% | Motion 28%

Rhythmic vocal bloom

DELAY-REVERB

Sync 1/4 | Delay Send 30% | Feedback 26%
Reverb Send 28% | Space 55% | Decay 2.2 s
Ping-Pong 55% | Ducking 42% | Motion 40%

Wide drum ambience

PARALLEL

Delay Send 10% | Time 42 ms | Feedback 8%
Reverb Send 22% | Space 34% | Decay 0.8 s
Width 88% | Pre-delay 8 ms | Ducking 18%

Evolving synth trail

REVERB-DELAY

Reverb Send 45% | Space 72% | Decay 4.8 s
Delay Send 34% | Sync 1/2 | Feedback 44%
Ping-Pong 76% | Color +20% | Motion 68%

What is under the hood

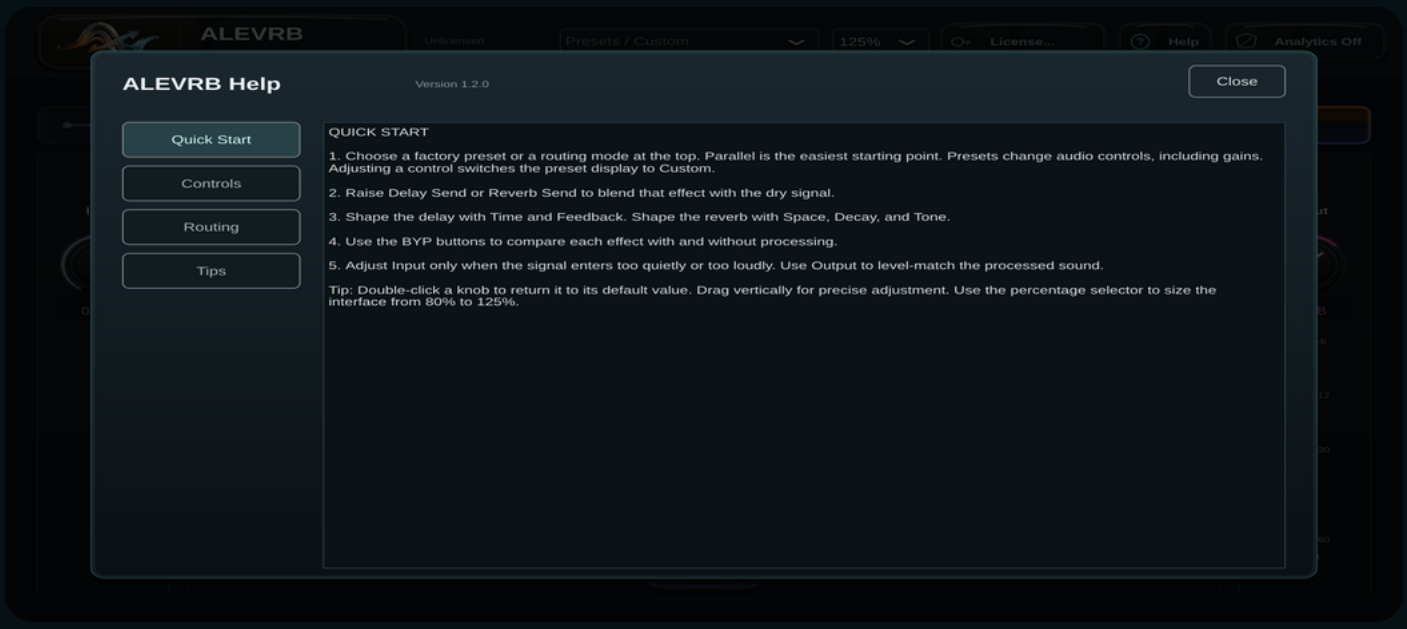
A concise engineering reference for producers and technical users — without implementation-specific coefficients.

Platforms	Windows 10/11 x64; macOS 10.15+ universal arm64/x86_64; Linux x64.
Formats	VST3 and standalone on Windows and Linux. VST3, Audio Unit, and standalone on macOS.
Signal path	Stereo audio effect with dry, parallel, and two serial routing topologies.
Delay	Smoothed modulated stereo feedback delay with four-point cubic Lagrange fractional reads, tempo sync, ping-pong crossfeed, frequency shaping, and antialiased nonlinear feedback.
Reverb	Dense early reflections, four diffusion stages, and a modulated four-line feedback delay network with explicit decay-time behavior, stereo injection/decoding, and width shaping.
Spectral decay	Tone-dependent low/high decay behavior keeps bright tails controllable while allowing darker material to sustain naturally.
Modulation	Motion controls shared delay wow and reverb-tank movement with parameter smoothing to reduce clicks while adjusting.
Dynamics	Envelope-controlled wet ducking preserves dry transients and intelligibility.
Licensing	Optional Lemon Squeezy activation via License.... Two activations per key; deactivate and reactivate freely. A failed, offline, or skipped check never disables the plugin. Linux license checks use libcurl (libcurl.so.4).
Safety	Finite-sample guards, bounded feedback, startup protection, and automated routing/parameter matrix validation.
State	Host automation and project recall use stable parameter identifiers. Existing presets and sessions retain their saved values. Parameter IDs are unchanged from 1.1.

ALEVRB is a custom musical design. It is not convolution, AI-generated processing, or a direct emulation of a named hardware unit.

Help is always inside the plugin

The Help button opens Quick Start, Controls, Routing, and Tips without requiring an internet connection.



OPTIONAL ANALYTICS

Analytics are off by default. Enabling them sends only coarse anonymous usage buckets such as routing mode and broad control ranges. No audio, filenames, project names, presets, IP addresses, or personal identifiers are collected. Turning analytics off removes the local analytics identity and queued data.

TROUBLESHOOTING

- Plugin missing: confirm the correct VST3/AU folder, then force a DAW rescan.
- No wet signal: raise the effect send and confirm its BYP button is off.
- Output clips: reduce Input, effect sends, Feedback, or Output until the meter stops reaching red.
- Tempo feels wrong: check Sync and confirm the DAW tempo is available to the plugin.
- Mac blocks opening: use the trusted-download control-click Open flow once; notarization is planned when signing is viable.
- License panel or Unlicensed label: these are optional. Press Not now or Escape. Audio keeps running. On Linux, license checks need libcurl.so.4.