

AIVA REVERB

Algorithmic Studio Reverb with Linked Bandpass & Tilt EQ (Windows 64-bit | VST3)

Overview

Aiva Reverb is a high-precision algorithmic studio reverb designed to deliver lush, silky, and transparent spatial depth without metallic ringing or unwanted coloration. At its core is an 8-channel Hadamard Feedback Delay Network (FDN) paired with 8-tap asymmetric Early Reflections, 6-stage cascaded input All-Pass diffusers, and modulated internal loop diffusers to eliminate standing waves and comb-filtering resonance.

Equipped with a calibrated real-time RTA spectrum analyzer and a dedicated Wet-only tone-shaping engine, your incoming Dry signal passes through 100% untouched with zero phase shift or tonal alteration. Meanwhile, the Wet reverb tail can be sculpted with selectable-slope High-Pass/Low-Pass filters, a Linked Bandpass Lock, and a full-range ±12 dB Spectral Tilt EQ.

Format & System Requirements

• Format: VST3 Plugin only (64-bit)

• Operating System: Windows 10 / Windows 11 (64-bit)

• Supported DAWs: Any VST3-compatible host (Studio Fender, Cubase, Reaper, FL Studio, Ableton Live, Bitwig, Cakewalk, etc.)

• Audio Quality: 32/64-bit floating-point internal processing, zero dry-path latency, supports all sample rates from 44.1 kHz up to 192 kHz.

• Activation: After payment is confirmed, we will send you an email with the license key within 48 hours.

Calibrated ±12 dB RTA & Wet EQ Display

The built-in high-resolution RTA spectrum analyzer is paired with a real-time ±12 dB Wet Frequency Contour Display:

• True 1:1 Visual Reference: Every decibel of Tilt boost or cut and every filter slope adjustment is reflected 1:1 on the ±12 dB display, giving you an instant, reliable visual guide for placing reverb cleanly in your mix.

• Color-Coded Frequency Nodes: Marked by a green node (Low Cut), a gold node (Tilt Frequency pivot), and a coral-red node (High Cut), with a live horizontal bridge connecting the filters whenever LINK is engaged.

Quick Start Setup

1. Run Aiva_Reverb_Setup_v2.5.0.exe to automatically install the VST3 plugin into your system VST3 folder (C:\Program Files\Common Files\VST3).

2. Load Aiva Reverb onto any vocal, instrument, drum, or Aux/Send bus in your DAW and paste your license key (AIVA-XXXX-XXXX-XXXX) to activate.

3. Set Decay (s) and Size (%) to match the desired acoustic space, and use Pre-Delay (ms) to separate the dry transient from the reverb tail.

4. Shape the reverb pocket using Low Cut, High Cut, and Tilt so the tail sits smoothly behind your dry tracks without muddying the low end.

Controls & Parameters

(Note: All EQ, Filter, and Tilt controls affect only the Wet reverb signal. Your Dry signal remains completely flat.)

• PRE-DELAY (0.0 ms – 500.0 ms | Default: 0.0 ms) Sets the time delay between the dry sound and the onset of early reflections and the reverb tail. Short values (10–30 ms) create natural room cohesion, while longer values (60–150+ ms) keep lead vocals and percussive transients clear and upfront.

• DECAY (0.20 s – 12.00 s | Default: 2.40 s) Controls the reverberation tail length in seconds across all 8 FDN delay lines.

• SIZE (10% – 100% | Default: 70%) Scales the virtual room dimensions, reflection spacing, and internal LFO modulation depth—ranging from tight, intimate chambers to expansive concert halls.

• LOW CUT (20 Hz – 500 Hz | Default: 20 Hz) & SLOPE (6, 12, 24 dB/oct) High-pass filter that removes low-end rumble and mud from the reverb tail below your chosen cutoff frequency (marked by a green node on the curve). Fully open at 20 Hz.

• HIGH CUT (1000 Hz – 20,000 Hz | Default: 20,000 Hz) & SLOPE (6, 12, 24 dB/oct) Low-pass filter that tames harsh top-end brightness and sibilance in the reverb tail above your chosen frequency limit (marked by a coral-red node on the curve). Fully open at 20,000 Hz.

• LINK (Filter Bandpass Lock) Located directly between the Low Cut and High Cut slope selectors. When engaged, LINK locks the octave interval between your Low Cut and High Cut frequencies. Turning either knob sweeps the entire filtered reverb band smoothly up or down the frequency spectrum.

• TILT (-12.0 dB to +12.0 dB | Default: 0.0 dB) Shapes the overall tonal balance of the reverb tail around the Tilt Frequency. Positive values (+dB) boost high frequencies and attenuate low frequencies for a bright, airy tail, while negative values (-dB) boost lows and attenuate highs for a warm, dark, vintage character.

• TILT FREQ (100 Hz – 5000 Hz | Default: 650 Hz) Sets the central pivot frequency (marked by the gold node on the 0 dB axis) around which the Tilt curve rotates.

• WIDTH (0% – 100% | Default: 100%) Adjusts the stereo spread of the reverb tail using Mid/Side processing—from focused mono (0%) to full wide stereo (100%).

• MIX (0% – 100% | Default: 30%) Balances the untouched Dry signal (0%) and the processed Wet reverb signal (100%). Set to 100% when using Aiva Reverb on an Aux/Send return track.

• BYPASS Cleanly disengages all reverb processing so you can compare the processed and unprocessed signal directly while keeping the spectrum analyzer active.

Pro Workflow Tips

• Sweeping Vocal Reverb Pocket: Set Low Cut to 180 Hz (12 dB/oct), High Cut to 6500 Hz (12 dB/oct), and engage LINK. You can now sweep the entire vocal reverb band up or down with a single knob to find the exact frequency pocket where it supports the vocal without masking it.

• Warm Vintage Plate Tail: Set Tilt Freq to 800 Hz, turn Tilt to -4.0 dB, set Decay to 1.8 s, and add 25 ms of Pre-Delay for a classic, velvety studio plate sound.

• Fine-Tuning Controls: Use your mouse wheel for ultra-smooth micro-adjustments on any knob, or double-click any control to reset it to its factory default value.