INDEPENDENT AUDIO SOFTWARE

LYNCH Exciter

Bring out the detail around the note.



Add a tuned harmonic contribution rather than simply lifting a shelf. Four characters, transient focus and separate bass enhancement let you shape the extra energy; Delta Solo makes that contribution audible on its own.

Complete colour user guide · version 0.2.0 · Apple Silicon Mac AU · macOS 12+

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Start with the part

Add a tuned harmonic contribution rather than simply lifting a shelf. Four characters, transient focus and separate bass enhancement let you shape the extra energy; Delta Solo makes that contribution audible on its own.

01 / Silk emphasizes a bounded even-harmonic branch with DC removal.

02 / Exciter On is independent from bass enhancement.

03 / Bass On, Tune, Amount, Sustain and Drive are independent.

04 / Delta Solo removes the original from the processed path so you hear the added harmonic/bass contribution and optional noise.

Inside the sound

Four Characters

Silk emphasizes a bounded even-harmonic branch with DC removal.

Harmonics

Exciter On is independent from bass enhancement.

Bass

Bass On, Tune, Amount, Sustain and Drive are independent.

Delta Solo And Meters

Delta Solo removes the original from the processed path so you hear the added harmonic/bass contribution and optional noise.

Output

8x oversampling at 44.1/48 kHz and 4x at 88.2/96/192.

Vintage Noise

Tape, Valve or Cassette hiss is separately enabled and adjustable −96 to −30 dBFS nominal RMS.

Sound and approach

Parallel harmonic enhancement with a clear Delta Solo listening mode. A tuned high-pass branch generates new harmonics and blends them into the original; this is different from simply raising an EQ shelf. It cannot recover a missing original performance or claim to reproduce Aphex's proprietary generator.

Four Characters

Silk emphasizes a bounded even-harmonic branch with DC removal. Spark uses a symmetric soft nonlinear residual, favoring odd harmonics. Valve uses asymmetric soft saturation, with both even and odd contributions. Edge uses a different compressed, curved residual for more insistent texture. All four branches remain warm and crossfade during character changes.

Harmonics

Exciter On is independent from bass enhancement. Tune selects the input region, 500 Hz–10 kHz. Lower Tune includes more presence/mids; higher Tune focuses air. Harmonic Richness changes generator texture/strength. Drive changes excitation; Amount sets the contribution mixed into the original. Amount 0 adds nothing. Air Low Pass softens the generated branch without filtering the original. Transient Focus moves enhancement toward attacks, using fast/slow envelope comparison. Width changes the side component of the added high-frequency branch, 0% mono to 200% wider; it leaves the original's width alone. Mono input ignores this stereo width control.

Bass

Bass On, Tune, Amount, Sustain and Drive are independent. A low-pass parallel branch adds shaped low-frequency weight and envelope-dependent sustain. It does not generate a sub-octave, and it can increase output peaks. Sustain changes the low branch's release; Drive adds saturation there. Output trims final level.

Delta Solo And Meters

Delta Solo removes the original from the processed path so you hear the added harmonic/bass contribution and optional noise. It may contain residual fundamental energy and phase-shaped content; it is not a laboratory isolation of harmonics. The Harmonic and Bass meters report each actual added branch. Input/output RMS, output sample peak and protection remain separate. Compare at matched output levels to judge detail rather than loudness. No automatic gain matching is forced.

Vintage Noise

Tape, Valve or Cassette hiss is separately enabled and adjustable −96 to −30 dBFS nominal RMS. It is input-armed above −90 dBFS, holding six seconds and fading for two after silence. Cold silent instances stay silent. Conservative tail: nine seconds including alignment. The noise is original generated audio.

Output

8x oversampling at 44.1/48 kHz and 4x at 88.2/96/192. Fixed 96-sample host latency. Init disables harmonic/bass/noise enhancement. Mix 0 and Bypass use exact delayed dry, even with Delta Solo enabled. Sample Protect is optional sample protection, not a true-peak limiter. The harmonic generators use analytic first-order antiderivative averaging in addition to oversampling. This adds a small half-oversample phase shift inside the parallel contribution. It reduces rather than eliminates alias products; ultrasonic extreme-input tests are documented.

Presets And Help

Presets cover subtle master/vocal sheen, acoustic detail, percussion, synth edge and independent bass support. They are starting points, not guaranteed fixes. Init, arrows and Save/User manage settings; all sound controls automate in the host. Normal drag/scroll/Shift fine adjustment and reset work throughout. ? enables context help; Guide opens inside the editor and closes with Escape. Scale has six screen-bounded sizes. No hover-only adjustment.

Primary architecture context: the public Aphex Exciter owner's manual documents tunable parallel harmonic enhancement and separate low-frequency processing: Filter coefficient context: Antiderivative antialiasing context: Parker, Zavalishin and Le Bivic (DAFx 2016), Reducing the Aliasing of Nonlinear Waveshaping Using Continuous-Time Convolution: The transfer functions, envelopes, routing and DSP here are original Lynch code. Apple Silicon AU. Actual Logic-session workflow and musical listening remain Robin's final artistic approval.

Install and choose the right host slot

Apple Silicon Mac, macOS 12 or later. Audio Unit only; no Intel Mac, Windows, VST3 or standalone application is included. Use an AU-compatible host and insert on an audio track, instrument audio output or bus.

Save your session before installation. Use the verified current installer and follow its installation prompts, then restart the host if the newly installed AU is not listed. Select the product under Lynch Audio Lab in the appropriate slot.

Trial and permanent licensing

Download the trial installer shown on the product page; the same installer is used for trial and purchase. No card is needed for the trial.

Open the plug-in, click Trial & Activation at the bottom and press Start trial to begin its full 14 days. Installing, opening a preset or downloading a guide does not start a new trial. Each product has its own trial. There is no subscription, automatic charge or periodic noise burst.

For a permanent purchase, use the exact Buy link on the product page. Lemon Squeezy supplies a license key in the receipt. Connect this Mac to the internet, click Trial & Activation at the bottom, paste the receipt key for this exact product and choose Activate. A permanent license allows a maximum of three computers. After successful activation, work offline.

To free a Mac's activation, connect it to the internet, open Trial & Activation and choose Deactivate this Mac. This releases that computer without renewing or resetting trial dates. Presets, project settings and updates do not renew the trial and retain settings.

The login Keychain stores trial and license-key records separately from presets. If it is locked, unlock it normally and press Refresh in Trial & Activation. Keep the system date correct.

At expiry, audio effects return latency-aligned dry audio with normal reported latency; instruments are silent; MIDI tools stop output and release held notes. Presets and project settings remain. Purchase activation restores licensed processing rather than a new trial.

Save, recall and automate

Save the host project to retain the AU instance. Use the product-specific preset operations described in the control chapters for reusable sounds. Preset files, complete project state and controller assignments can have different scopes; do not treat them as interchangeable.

When using host automation, choose an exposed sound parameter, record a short test pass and replay from before the first change. Check module enables, routing and output level. Only use product-local MIDI Learn when this manual explicitly documents it; otherwise use the host's controller-assignment workflow.

Troubleshooting and support

If the AU is missing, save your session, install the current package and restart the AU-compatible host. Check the required macOS version and Apple Silicon architecture, then review the host's plug-in manager. Do not delete a working production project to troubleshoot an insert.

For no sound or no processing, first check the correct slot, track input/output, incoming audio or MIDI, bypass/mute, module enables, mix/return amounts and trial or activation status. Test a simple documented starting point before adding a complex chain.

If the sound is too loud or distorted, reduce drive or output and inspect later inserts and the host master. Sample-peak protection does not guarantee intersample peaks. Source clipping cannot be repaired simply by lowering a later trim.

For dropouts, reduce active polyphony, unison, long returns or dense processing where applicable, or use the host's freeze/bounce workflow. A larger buffer can help scheduling; it cannot cure sustained processing overload.

For activation trouble, check the internet connection and use the key for this exact product from the Lemon Squeezy receipt. For help, contact info@lynchaudiolab.com with product version, macOS version, AU host and a short description. Never send your private license key publicly.

About this guide

Lynch Audio Lab · Music records a brighter tomorrow. This guide describes the released Audio Unit package. The control chapters preserve the supplied public operating documentation, with current-operation addenda integrated and obsolete private-test release labels removed. Images show the real product interface; some original panel lettering may predate the current package version. Original TXT documentation remains available separately.

Original Lynch designs are not measured hardware replicas or equipment-maker endorsements. Listen in context, maintain headroom and check the final deliverable after downstream processing. Support: info@lynchaudiolab.com.