ATOMIC LABS

INSTRUMENT

TRIAD

Classic three-oscillator ladder synthesizer

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



USER MANUAL

VERSION 1.0 · 2026

01 About Triad

Triad is the second, upgraded take on the classic three-oscillator design. Three band-limited oscillators with six ranges and six waves, detune, hard sync and pulse-width modulation feed a mixer with noise and output feedback.

The 24 dB ladder filter (plus 12 dB, band-pass and high-pass) has emphasis, contour and keyboard tracking. The classic modulation bus sends oscillator 3 and noise to pitch and filter. Added: an LFO, 8-voice polyphony, unison, drift, tube, chorus / flanger / phaser, delay and reverb.

TYPE	FORMAT	SIGNAL	LATENCY
Instrument	VST3 · Win x64	MIDI in → stereo out	none

FACTORY PRESETS	CONTROLS	WINDOW	VERSION
300 + Init	72 automatable	Resizable	1.0

02 Quick start

1. Pick a preset from the ten categories.
2. Use oscillator 3 in LO range with Mod Mix for vibrato or filter sweeps.
3. Raise Feedback for the overdriven filter sound.
4. Switch between mono, legato and poly in the voice section.

INSTALLATION

Install

Copy the folder `Triad.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



Oscillators

Three oscillators, range LO to 2', six waves, detune, sync and pulse width. Osc 3 can run free of the keyboard.

Mixer

Levels for the oscillators, white / pink noise and Feedback.

Filter

Ladder 24 dB, 12 dB, band-pass or high-pass with cutoff, emphasis, contour amount and key tracking.

Contours

Filter and loudness envelopes.

Modulation

Mod Mix (osc 3 to noise) with Modulation Amount; Oscillator Modulation and Filter Modulation choose the targets. Osc 3 Keyboard Control frees oscillator 3. A dedicated LFO with delay goes to pitch, cutoff and pulse width.

Voice and FX

Mono, legato, poly (8 voices), unison with spread, glide, drift. Tube, chorus / flanger / phaser, delay, reverb.

04 Presets

Triad 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 Classic Bass | **30** Fat Leads | **30** Sync Leads | **30** Poly Brass & Strings | **30** Plucks & Keys

30 Osc 3 Modulation | **30** Resonant & Acid | **30** Feedback & Drive | **30** Pads & Motion | **30** Noise & FX

A FEW TO TRY

- Fat Bass
- Vintage Low End
- Thick Bottom
- Rubber Bass
- Creamy Solo
- Soaring Lead
- Wide Voice
- Smooth Solo
- Biting Solo
- Howling Sweep
- Tearing Sync
- Ripping Solo
- Analog Strings
- Silky Horns
- Lush Poly
- Plucky Pluck
- Glassy Clav
- Muted Keys
- Tiny Pluck
- Ringing Wobble
- Wobbling Mod
- Bubbling Bell
- Shaking Wobble
- Wet Bass
- Zappy Line
- Acid Acid
- Squelchy Bass
- Gritty Growl
- Angry Bass
- Crushed Lead
- Floating Pad
- Wide Wash
- Gentle Sweep
- Glowing Pad
- Cosmic Wind
- Stormy Noise

05 Tips

> Squelchy lead: high emphasis, short contour decay, legato with glide.

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\Triad\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
Tune	-12.00 st to +12.00 st	0.00 st
Glide	Off to 1505 ms	Off
Mod Mix (Osc 3 > Noise)	0 % to 100 %	0 %
Modulation Amount	0 % to 100 %	0 %
Oscillator Modulation	Off · On	On
Filter Modulation	Off · On	Off
LFO > Pulse Width	0 % to 100 %	0 %
Noise Level	0 % to 100 %	0 %
Pink Noise	Off · On	Off
Feedback	0 % to 100 %	0 %
Analog Drift	0 % to 100 %	20 %
Filter Type	LP 24 · LP 12 · Band Pass · High Pass	LP 24
Cutoff	20 Hz to 20.00 kHz	1.26 kHz
Emphasis	0 % to 100 %	20 %
Contour Amount	0 % to 100 %	40 %
Keyboard Tracking	0 % to 100 %	33 %
Velocity > Filter	0 % to 100 %	20 %
Mixer Drive	0 % to 100 %	20 %
Velocity > Loudness	0 % to 100 %	50 %
Voice Mode	Poly · Mono · Legato	Mono
Polyphony	1 to 8	8
Unison	1 to 4	1
Unison Detune	0 % to 100 %	20 %
Stereo Spread	0 % to 100 %	50 %
Bend Range	0 to 24	2
Tube	0 % to 100 %	0 %
Volume	-36.0 dB to +6.0 dB	-6.0 dB

Osc

CONTROL	RANGE / OPTIONS	DEFAULT
Osc 3 Keyboard Control	Off · On	On
Osc 2 Sync	Off · On	Off
Osc 1 Range	LO · 32' · 16' · 8' · 4' · 2'	16'
Osc 1 Wave	Triangle · Shark · Saw · Square · Wide Pulse · Narrow Pulse	Saw
Osc 1 On	Off · On	On
Osc 1 Level	0 % to 100 %	80 %
Osc 2 Range	LO · 32' · 16' · 8' · 4' · 2'	16'
Osc 2 Wave	Triangle · Shark · Saw · Square · Wide Pulse · Narrow Pulse	Saw
Osc 2 On	Off · On	On
Osc 2 Level	0 % to 100 %	70 %
Osc 3 Range	LO · 32' · 16' · 8' · 4' · 2'	8'
Osc 3 Wave	Triangle · Shark · Saw · Square · Wide Pulse · Narrow Pulse	Saw
Osc 3 On	Off · On	Off
Osc 3 Level	0 % to 100 %	60 %
Osc 2 Detune	-7.00 st to +7.00 st	+0.08 st
Osc 3 Detune	-7.00 st to +7.00 st	-0.10 st

Filter

CONTROL	RANGE / OPTIONS	DEFAULT
Filter Attack	0 ms to 10.00 s	4 ms
Filter Decay	1 ms to 10.00 s	400 ms
Filter Sustain	0 % to 100 %	30 %
Filter Release	2 ms to 10.00 s	300 ms

Loudness

CONTROL	RANGE / OPTIONS	DEFAULT
Loudness Attack	0 ms to 10.00 s	4 ms
Loudness Decay	1 ms to 10.00 s	400 ms
Loudness Sustain	0 % to 100 %	80 %
Loudness Release	2 ms to 10.00 s	300 ms

LFO

CONTROL	RANGE / OPTIONS	DEFAULT
LFO Shape	Sine · Triangle · Saw · Square · Sample & Hold	Sine
LFO Rate	0.010 Hz to 30.00 Hz	5.00 Hz
LFO Tempo Sync	Off · On	Off
LFO Division	1/32 · 1/16 · 1/8T · 1/8 · 1/8. · 1/4 · 1/2 · 1 bar · 2 bars · 4 bars	1/4
LFO > Pitch	0 % to 100 %	0 %
LFO > Cutoff	0 % to 100 %	0 %
LFO Delay	0 % to 100 %	0 %

Multi

CONTROL	RANGE / OPTIONS	DEFAULT
Multi FX Type	Chorus · Flanger · Phaser	Chorus
Multi FX Mix	0 % to 100 %	0 %
Multi FX Depth	0 % to 100 %	50 %
Multi FX Rate	0.05 Hz to 8.00 Hz	0.23 Hz
Multi FX Feedback	0 % to 90 %	30 %

Delay

CONTROL	RANGE / OPTIONS	DEFAULT
Delay Mix	0 % to 100 %	0 %
Delay Feedback	0 % to 95 %	35 %
Delay Sync	Off · On	On
Delay Division	1/32 · 1/16 · 1/8T · 1/8 · 1/8. · 1/4 · 1/2 · 1 bar · 2 bars · 4 bars	1/8.
Delay Time	20 ms to 2000 ms	350 ms
Delay Filter	0 % to 100 %	60 %

Reverb

CONTROL	RANGE / OPTIONS	DEFAULT
Reverb	0 % to 100 %	0 %
Reverb Size	0 % to 100 %	60 %
Reverb Color	0 % to 100 %	50 %



ATOMIC LABS

Triad · Classic three-oscillator ladder synthesizer

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

Version 1.0 · VST3 for Windows 64-bit · Manual generated 2026-11-13

VST is a trademark of Steinberg Media Technologies GmbH. All other names are the property of their owners.