ATOMIC LABS

INSTRUMENT

MONOLITH

Three-oscillator ladder synthesizer

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



USER MANUAL

VERSION 1.0 · 2026

01 About Monolith

Monolith follows the classic three-oscillator monophonic design: three oscillators with six waves and ranges from LO to 2', a mixer with noise and a feedback loop that overdrives the filter, a 24 dB ladder filter with emphasis, and two contour envelopes.

Oscillator 3 and noise act as modulation sources for pitch and filter. Monolith adds 8-voice polyphony, unison, velocity, drift, tube drive, 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	60 automatable	Resizable	1.0

02 Quick start

1. Pick a preset (fat basses, classic leads, brass, poly keys, sequences, overload).
2. Raise Feedback in the mixer to overdrive the filter.
3. Use Mod Mix with oscillator 3 in LO range as a slow LFO for vibrato or filter sweeps.

INSTALLATION

Install

Copy the folder `Monolith.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, each with Range (LO, 32' to 2'), Wave (triangle, shark, saw, square, wide pulse, narrow pulse) and Level. Osc 2 and Osc 3 Frequency detune them. Osc 3 Keyboard Control frees oscillator 3 from the keyboard (a slow LFO in LO range).

Mixer

Oscillator levels, Noise Level and Noise Colour (white / pink) and Feedback, which overdrives the filter.

Filter

Filter Mode (LP 24, LP 12, Band Pass, High Pass), Cutoff, Emphasis, Contour Amount, Keyboard Control 1 and 2, Velocity > Filter.

Contours

Filter Attack, Decay, Sustain; Loudness Attack, Decay, Sustain; shared Release.

Modulation

Mod Mix blends oscillator 3 and noise; Mod Depth sets the amount; Oscillator Modulation and Filter Modulation choose the targets. An extra LFO (shape, rate or division) goes to pitch, cutoff and pulse width.

Voice and FX

Tune, Glide, Voice Mode, Voices, Unison with detune and spread, Drift, Velocity > Loudness, Bend Range. Drive, Mod FX (chorus, flanger, phaser), tempo delay, reverb and Volume.

04 Presets

Monolith 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** Fat Basses
- **30** Classic Leads
- **30** Brass & Horns
- **30** Poly Keys & Pads
- **30** Plucks & Sequences
- **30** Overload
- **30** Osc 3 Modulation
- **30** Squelch & Resonance
- **30** Strings & Ensembles
- **30** Noise & FX

A FEW TO TRY

- Fat Bass
- Punchy Sub
- Wood Low
- Thick Bass
- Prog Solo
- Lucky Lead
- Wailing Whistle
- Silver Solo
- Mellow Stab
- Warm Section
- Royal Brass
- Bold Stab
- Analog Keys
- Warm Chords
- Slow Poly
- Short Pluck
- Picked Pick
- Clav Sequence
- Marimba Pluck
- Burning Lead
- Overloaded Bass
- Roaring Growl
- Crunch Lead
- Trill Lead
- Metal Bell
- Bell Mod
- Growl Lead
- Quack Lead
- Chirp Line
- Liquid Squelch
- String Strings
- Cello Pad
- Vintage Ensemble
- Bowed Strings
- Laser Noise
- Wind FX

05 Tips

> Classic bass: osc 1 and 2 saw at 16', osc 3 square at 32', low cutoff, contour amount high.

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\Monolith\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	-2.50 st to +2.50 st	0.00 st
Glide	Off to 1505 ms	Off
Noise Level	0 % to 100 %	0 %
Noise Colour	White · Pink	White
Feedback	0 % to 100 %	0 %
Filter Mode	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	-100 % to +100 %	+40 %
Keyboard Control 1	Off · On	On
Keyboard Control 2	Off · On	Off
Velocity > Filter	0 % to 100 %	30 %
Release	2 ms to 10.00 s	300 ms
Mod Mix (Osc 3 <> Noise)	0 % to 100 %	0 %
Mod Depth	0 % to 100 %	0 %
Oscillator Modulation	Off · On	On
Filter Modulation	Off · On	Off
Voice Mode	Poly · Mono · Legato	Mono
Voices	1 to 8	8
Unison	1 to 4	1
Unison Detune	0 % to 100 %	20 %
Spread	0 % to 100 %	50 %
Drift	0 % to 100 %	15 %
Velocity > Loudness	0 % to 100 %	40 %
Bend Range	0 to 12	2
Drive	0 % to 100 %	0 %
Reverb	0 % to 100 %	0 %
Reverb Size	0 % to 100 %	60 %
Volume	-36.0 dB to +6.0 dB	-4.0 dB

Osc

CONTROL	RANGE / OPTIONS	DEFAULT
Osc 1 Range	LO · 32' · 16' · 8' · 4' · 2'	8'
Osc 1 Wave	Triangle · Shark · Saw · Square · Wide Pulse · Narrow Pulse	Saw
Osc 1 Level	0 % to 100 %	80 %
Osc 2 Range	LO · 32' · 16' · 8' · 4' · 2'	8'
Osc 2 Wave	Triangle · Shark · Saw · Square · Wide Pulse · Narrow Pulse	Saw
Osc 2 Level	0 % to 100 %	0 %
Osc 3 Range	LO · 32' · 16' · 8' · 4' · 2'	16'
Osc 3 Wave	Triangle · Shark · Saw · Square · Wide Pulse · Narrow Pulse	Square
Osc 3 Level	0 % to 100 %	0 %
Osc 2 Frequency	-7.00 st to +7.00 st	+0.08 st
Osc 3 Frequency	-7.00 st to +7.00 st	0.00 st
Osc 3 Keyboard Control	Off · On	On

Filter

CONTROL	RANGE / OPTIONS	DEFAULT
Filter Attack	0 ms to 10.00 s	5 ms
Filter Decay	1 ms to 10.00 s	400 ms
Filter Sustain	0 % to 100 %	30 %

Loudness

CONTROL	RANGE / OPTIONS	DEFAULT
Loudness Attack	0 ms to 10.00 s	3 ms
Loudness Decay	1 ms to 10.00 s	300 ms
Loudness Sustain	0 % to 100 %	80 %

LFO

CONTROL	RANGE / OPTIONS	DEFAULT
LFO Shape	Sine · Triangle · Square · Saw · Random	Triangle
LFO Rate	0.05 Hz to 20.00 Hz	0.74 Hz
LFO Sync	Off · On	Off
LFO Division	1/32 · 1/16 · 1/8T · 1/8 · 1/8. · 1/4 · 1/2 · 1 bar	1/4
LFO > Pitch	0 % to 100 %	0 %
LFO > Cutoff	-100 % to +100 %	0 %
LFO > Pulse Width	0 % to 100 %	0 %

Mod

CONTROL	RANGE / OPTIONS	DEFAULT
Mod FX	Off · Chorus · Flanger · Phaser	Off
Mod FX Amount	0 % to 100 %	50 %
Mod FX Rate	0 % to 100 %	30 %

Delay

CONTROL	RANGE / OPTIONS	DEFAULT
Delay Mix	0 % to 100 %	0 %
Delay Feedback	0 % to 90 %	35 %
Delay Time	1/32 · 1/16 · 1/8T · 1/8 · 1/8. · 1/4 · 1/2 · 1 bar	1/8



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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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