ATOMIC LABS

INSTRUMENT

E-VO 2

Evolving layer synthesizer

INSTRUMENT | VST3 | WINDOWS 64-BIT | 800 PRESETS | V2.0



USER MANUAL

VERSION 2.0 · 2026

01 About E-VO 2

E-VO 2 stacks up to eight complete synthesizers (layers) and blends them with a vector pad. Each layer has three morphing wavetable oscillators (which can also play samples), 18 filter types, an insert effect, four envelopes, four LFOs, four step sequencers, an arpeggiator, a 16-slot modulation matrix and four effect slots.

The vector pad can orbit on its own, so the blend between layers keeps moving. Four master effect slots finish the sound. 800 factory presets cover stacks, arp worlds, sampler hybrids, cinematic scores, psy machines and more.

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

FACTORY PRESETS	CONTROLS	WINDOW	VERSION
800 + Init	2438 automatable	Resizable	2.0

02 Quick start

1. Pick a preset and play a chord; move the vector pad to blend the layers.
2. Turn up Vector Orbit Depth to let the blend move by itself.
3. Select a layer tab to edit it; each layer can be switched on or off and limited to a key range (Key Low / High) for splits.
4. Use the four Macros for quick performance changes.

INSTALLATION

Install

Copy the folder `E-VO.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



Global

Vector X / Y blend the layers, Orbit Rate and Depth move the blend automatically. Four Macros, Glide, Bend Range, Voice Mode, number of Voices, Velocity Sensitivity and Master.

Layers 1-8

Every layer has On, Gain, Pan, Transpose and a key range. Oscillators A-C each choose a wavetable (or a sample with root key, start / end and loop), Morph position, unison with detune and spread, Bass / Treble / Balance, an oscillator effect, key tracking and routing to the filter.

Filter and Insert

18 filter types with cutoff, amplify, feedback, envelope amount and key follow. An insert effect with three controls can sit before or after the filter.

Modulation

Four envelopes (A-D), four LFOs with two blendable shapes, tempo sync, retrigger and one-shot, four step sequencers with length, division, smoothing and shuffle, and 16 routes (source, target, amount).

Arpeggiator

Per layer: mode, octaves, division, gate, swing and source.

Effects

Ten FX slots per layer and four master FX slots, each with a type, four parameters and mix.

04 Presets

E-VO 2 comes with **800** 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** Layered Stacks
- **30** Arp Worlds
- **30** Sampler Hybrids
- **30** FX Journeys
- **30** Vector Morphs
- **30** Cinematic Scores
- **30** Psy Machines
- **30** Ambient Spaces
- **30** Rhythmic Gates
- **30** Signature Leads

A FEW TO TRY

- Night Roller
- Talking Roots
- Hard Wire
- Acid Rain
- Moonlit Ritual
- Octave Bouncer
- Metal Hive
- Sitar Spark
- Glass Cathedral
- Velour Air
- Machine Dream
- Psy Organ Stab
- Sitar Sampler
- Clap Echo
- Iron Tower
- Titan Layers
- Orbit Runner
- Helix Runner
- Infinite Runner
- Shadow Keys
- Hybrid Bells
- Event Space
- Fractal Space
- Gradient Morph
- Flux Morph
- Epic Score
- Heroic Score
- Legend Score
- Hyper Tribe
- Neuro Tribe
- Still Garden
- Aurora Garden
- Strobe Pads
- Stutter Pads
- Rhythm Pads
- Signature Cry

05 Tips

Put a pad on layers 1-2 and a rhythmic arp on layer 3, then orbit the vector pad slowly.

Use key ranges for a bass/lead split in one patch.

Save often: user presets include every layer, sample and arp clip.

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\E-VO\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.

MUTATE

MUTATE changes the current sound a little in a random direction, so you can explore variations of 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
Glide	Off to 3005 ms	Off
Bend Range	+0 st to +24 st	+2 st
Voice Mode	Poly · Mono · Legato	Poly
Voices	1 to 16	12
Velocity Sens	0 to 100	50
Master	-48.0 dB to +12.0 dB	-3.0 dB

Vector

CONTROL	RANGE / OPTIONS	DEFAULT
Vector X	0 to 100	50
Vector Y	0 to 100	50
Vector Orbit Rate	0.02 Hz to 30.0 Hz	0.18 Hz
Vector Orbit Depth	0 to 100	0

Macro

CONTROL	RANGE / OPTIONS	DEFAULT
Macro 1	0 to 100	0
Macro 2	0 to 100	0
Macro 3	0 to 100	0
Macro 4	0 to 100	0

Master FX 1–4

4 identical sets - Master FX 1 shown

CONTROL	RANGE / OPTIONS	DEFAULT
Type	---- · Equalizer · Reverb · Chamber · Delay · Chorus · Phaser · Flanger · Distortion · Bitcrusher · Compressor · Trance gate *+ 9 more*	----
Param 1	0 to 100	50
Param 2	0 to 100	50
Param 3	0 to 100	50
Param 4	0 to 100	50
Mix	0 to 100	100

Layer 1–8

8 identical sets - Layer 1 shown

CONTROL	RANGE / OPTIONS	DEFAULT
On	Off · On	On
Gain	-inf dB to 0.0 dB	-1.9 dB
Pan	L100 to R100	C
Transpose	-36 st to +36 st	+0 st
Key Low	C-1 to G9	C-1
Key High	C-1 to G9	G9
Filter / Insert Order	F→I · I→F	F->I
Filter Type	LP 6 · LP 12 · LP 24 · HP 6 · HP 12 · HP 24 · BP 12 · BP 24 · Peak 12 · Notch 12 · Acid LP 24 · Vintage LP 24 *+ 6 more*	LP 24
Cutoff	20 Hz to 20.0 kHz	7.1 kHz
Filter Amplify	0 to 100	0
Filter Feedback	0 to 100	15
Filter Envelope	-100 to +100	+0
Keyfollow	0 to 100	30
Insert Type	---- · Overdrive · Fuzz · Bitcrush · Exciter · Comb · Wavefold · Rectify · LP-HP 12 | Serial	----
Insert-Control 1	0 to 100	50
Insert-Control 2	0 to 100	50
Insert-Control 3	0 to 100	100
Arpeggiator	Off · On	Off
Arp Mode	Up · Down · Up-down · Down-up · Random · As played · Chord	Up
Arp Octaves	1 to 4	1
Arp Division	1/32 · 1/16T · 1/16 · 1/16. · 1/8T · 1/8 · 1/8. · 1/4T · 1/4 · 1/4. · 1/2 · 1 bar · 2 bars · 4 bars	1/16
Arp Gate	5 to 100	60
Arp Swing	0 to 100	0
Arp Source	Pattern · MIDI file	Pattern

Layer 1–8 › Osc A–C

3 identical sets - Osc A shown

CONTROL	RANGE / OPTIONS	DEFAULT

On	Off · On	On
Wavetable	Saw · Square · Triangle · Sine · Analog morph · Pulse width · Harmonic sweep · Formant · Organ · Spectral comb · Hollow · Metallic *+ 4 more*	Saw
Morph	0 to 10000	0
Phase	0 to 10000	0
Random	0 to 10000	10000
Semi	-48 to 48	0
Cent	-100 to 100	0
Unison	1 to 8	1
Detune	0 to 100	25
Spread	0 to 100	60
Bass	-100 to +100	+0
Treble	-100 to +100	+0
Balance	L100 to R100	C
Volume	-inf dB to 0.0 dB	-2.5 dB
FX Type	---- · Sync + Bend · Phase mod · Ring mod · Mirror · Formant shift · Feedback · Tube drive · Asym clip · Drift · Noise · Chaos *+ 3 more*	----
FX 1	0 to 100	0
FX 2	0 to 100	0
Keytrack	Off · On	On
To Filter	Off · On	On
Mode	Wavetable · Sampler	Wavetable
Sample Root Key	C-1 to G9	C4
Sample Start	0 to 10000	0
Sample End	0 to 10000	10000
Loop Mode	Off · Forward · Ping-pong · One-shot	Off
Loop Start	0 to 10000	2500
Loop End	0 to 10000	9000
Loop Crossfade	0 to 100	10
Reverse	Off · On	Off

Layer 1–8 › Env A–D

4 identical sets - Env A shown

CONTROL	RANGE / OPTIONS	DEFAULT
Attack	1 ms to 20.00 s	4 ms
Decay	1 ms to 20.00 s	300 ms
Sustain	0 to 100	80
Release	1 ms to 20.00 s	300 ms
Curve	-100 to +100	+0

Layer 1–8 › LFO A–D

4 identical sets - LFO A shown

CONTROL	RANGE / OPTIONS	DEFAULT
Shape	Sine · Triangle · Saw up · Saw down · Square · Pulse · Stairs up · Stairs down · Exp decay · Exp rise · Random steps · Smooth random	Sine
Shape 2	Sine · Triangle · Saw up · Saw down · Square · Pulse · Stairs up · Stairs down · Exp decay · Exp rise · Random steps · Smooth random	Triangle
Blend	0 to 100	0
Rate	0.02 Hz to 30.0 Hz	0.54 Hz
Level	0 to 100	100
BPM Sync	Off · On	Off
Division	1/32 · 1/16T · 1/16 · 1/16. · 1/8T · 1/8 · 1/8. · 1/4T · 1/4 · 1/4. · 1/2 · 1 bar · 2 bars · 4 bars	1/4
Retrigger	Off · On	On
Mono	Off · On	Off
Oneshot	Off · On	Off

Layer 1–8 › Seq A–D

4 identical sets - Seq A shown

CONTROL	RANGE / OPTIONS	DEFAULT
Length	1 to 16	16
Division	1/32 · 1/16T · 1/16 · 1/16. · 1/8T · 1/8 · 1/8. · 1/4T · 1/4 · 1/4. · 1/2 · 1 bar · 2 bars · 4 bars	1/16
Mode	Loop · One-shot	Loop
Smooth	0 to 100	0
Shuffle	0 to 100	0
Level	0 to 100	100

Layer 1–8 › Route 1–16

16 identical sets - Route 1 shown

CONTROL	RANGE / OPTIONS	DEFAULT
Source	---- · Env A · Env B · Env C · Env D · LFO A · LFO B · LFO C · LFO D · Seq A · Seq B · Seq C *+ 12 more*	----
Target	---- · Pitch · Osc A pitch · Osc B pitch · Osc C pitch · Osc A morph · Osc B morph · Osc C morph · Osc A FX 1 · Osc B FX 1 · Osc C FX 1 · Osc A FX 2 *+ 21 more*	----
Amount	-100 to +100	+0

Layer 1–8 › FX 1–10

10 identical sets - FX 1 shown

CONTROL	RANGE / OPTIONS	DEFAULT
Type	---- · Equalizer · Reverb · Chamber · Delay · Chorus · Phaser · Flanger · Distortion · Bitcrusher · Compressor · Trance gate *+ 9 more*	`----`
Param 1	0 to 100	`50`
Param 2	0 to 100	`50`
Param 3	0 to 100	`50`
Param 4	0 to 100	`50`
Mix	0 to 100	`100`



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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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