ATOMIC LABS

INSTRUMENT

# BASALT

Dedicated bass synthesizer

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




USER MANUAL

VERSION 1.0 · 2026

# 01 About Basalt

Basalt is a synthesizer made only for bass. Two oscillators and a sub restart their phase on every note, so each note starts exactly the same way: tight, punchy and consistent low end.

A pitch-punch envelope adds the click of a kick-like attack, a ladder filter has its own snappy envelope, and the drive section offers tube, fold, hard and crush. A three-band bass EQ, a tempo-synced kick ducker and a mono-bass crossover make the bass sit in a mix: everything below the split stays dead centre, while chorus, delay and reverb only touch the highs.

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

| FACTORY PRESETS | CONTROLS | WINDOW | VERSION |
|---|---|---|---|
| 300 + Init | 68 automatable | Resizable | 1.0 |

# 02 Quick start

1. Choose a preset (offbeat, sub, punch, acid, reese, pluck, growl, pumping, wobble, wide).
2. Play in the bass range. Basalt is mono / legato by default, with glide.
3. Turn on the Ducker and press Play in your DAW: the bass makes room for the kick on every beat.
4. Use the Mono Split to decide which frequencies stay perfectly centred.

## INSTALLATION

### Install

Copy the folder `Basalt.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 and Sub

Osc 1 and Osc 2 Wave (saw, square, pulse, triangle, sine), Osc 2 Octave and Detune, Osc Mix, Pulse Width, Unison with Detune, Octave and Tune. Sub Level, Sub Octave and Sub Square. Phase Reset with Start Phase makes every note start identically; Attack Click adds a defined edge.

## Punch

Punch Amount and Punch Decay: a short pitch drop at the start of each note for a kick-like attack.

## Filter

Filter Type (LP 24, LP 12, Band Pass, High Pass), Cutoff, Resonance, Filter Env Amount, Key Track, Velocity > Filter, Filter Drive and the filter envelope (attack, decay, sustain, release).

## Amp

Amp Attack, Hold, Decay, Sustain and Release, plus Velocity > Level. Hold keeps the body of short notes.

## LFO

Shape, Rate or tempo Division, and amounts to pitch, cutoff and pulse width (for wobbles).

## Voice

Voice Mode (Poly, Mono, Legato), Polyphony, Glide and Bend Range.

### Drive and Bass EQ

Drive Type (Tube, Fold, Hard, Crush) and Drive amount. EQ Low, Mid and High tuned for bass.

### Kick Ducker

Ducks the bass on every 1/8, 1/4, 1/2 or bar in time with the song, with Depth, Length and Offset. Needs the DAW transport to be playing.

### Mono bass and FX

Mono Below sets the frequency under which the bass stays dead centre. FX Width, a Multi FX (chorus, flanger, phaser), tempo delay and reverb work only on the highs.

# 04 Presets

Basalt 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** Offbeat & Rolling
- **30** Sub Bass
- **30** Punch & Kick Bass
- **30** Acid & Squelch
- **30** Reese & Detuned
- **30** Pluck Bass
- **30** Distorted & Growl
- **30** Pumping
- **30** Wobble
- **30** Wide & FX Bass

### A FEW TO TRY

- Rolling Bass
- Full-On Line
- Night Roll
- Forest Bass
- Clean Bass
- Deep Sub
- Solid Low End
- Low Bass
- Slamming Hit
- Knocking Kick Bass
- Hard Punch
- Punchy Hit
- Chirpy Squelch
- Silver Bass
- Liquid Line
- Reese Reese
- Massive Wall
- Jungle Bass
- Swirling Reese
- Funky Bass
- Plucked Pluck
- Digital Stab
- Digital Bass
- Angry Beast
- Crushed Dirt
- Dirty Growl
- Growling Beast
- Sucking Bass
- Bouncing Pulse
- House Groove
- Wobbling Wobble
- Triplet Wub
- Stutter Bass
- Half-Time Wobble
- Spacious Wide Bass
- Wide Bass

# 05 Tips

> Rolling offbeat bass: short amp decay, Ducker on, note on every off-beat 16th.

> Reese: two saws detuned, slow filter movement, chorus on the highs.

> If the low end feels weak on a phone speaker, add a little Fold drive: it adds harmonics you can hear.

# 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\Basalt\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 |
|---|---|---|
| Pulse Width | 0 % to 100 % | 50 % |
| Phase Reset | Off · On | On |
| Start Phase | 0 deg to 360 deg | 0 deg |
| Attack Click | 0 % to 100 % | 0 % |
| Unison | 1 to 4 | 1 |
| Unison Detune | 0 % to 100 % | 20 % |
| Octave | -3 to 1 | -1 |
| Tune | -12.00 st to +12.00 st | 0.00 st |
| Punch Amount | 0.0 st to 48.0 st | 0.0 st |
| Punch Decay | 4 ms to 500 ms | 50 ms |
| Filter Type | LP 24 · LP 12 · Band Pass · High Pass | LP 24 |
| Cutoff | 20 Hz to 20.00 kHz | 448 Hz |
| Resonance | 0 % to 100 % | 25 % |
| Filter Env Amount | -100 % to +100 % | +45 % |
| Key Track | 0 % to 100 % | 30 % |
| Velocity > Filter | 0 % to 100 % | 30 % |
| Velocity > Level | 0 % to 100 % | 40 % |
| Voice Mode | Poly · Mono · Legato | Legato |
| Polyphony | 1 to 6 | 4 |
| Glide | Off to 1005 ms | 15 ms |
| Bend Range | 0 to 24 | 2 |
| Drive Type | Tube · Fold · Hard · Crush | Tube |
| Drive | 0 % to 100 % | 20 % |
| Kick Ducker | Off · On | Off |
| Mono Below | 40 Hz to 500 Hz | 150 Hz |
| FX Width | 0 % to 200 % | 100 % |
| Reverb | 0 % to 100 % | 0 % |
| Reverb Size | 0 % to 100 % | 50 % |
| Volume | -36.0 dB to +6.0 dB | -6.0 dB |

## Osc

| CONTROL | RANGE / OPTIONS | DEFAULT |
|---|---|---|
| Osc 1 Wave | Saw · Square · Pulse · Triangle · Sine | Saw |
| Osc 2 Wave | Saw · Square · Pulse · Triangle · Sine | Square |
| Osc 2 Octave | -2 to 2 | 0 |
| Osc 2 Detune | -50.0 ct to +50.0 ct | +6.0 ct |
| Osc Mix (1 > 2) | 0 % to 100 % | 30 % |

## Sub

| CONTROL | RANGE / OPTIONS | DEFAULT |
|---|---|---|
| Sub Level | 0 % to 100 % | 50 % |
| Sub Octave | Same · -1 Oct · -2 Oct | -1 Oct |
| Sub Square | Off · On | Off |

## Filter

| CONTROL | RANGE / OPTIONS | DEFAULT |
|---|---|---|
| Filter Drive | 0 % to 100 % | 20 % |
| Filter Attack | 0 ms to 5.00 s | 2 ms |
| Filter Decay | 5 ms to 5.00 s | 180 ms |
| Filter Sustain | 0 % to 100 % | 10 % |
| Filter Release | 5 ms to 5.00 s | 100 ms |

## Amp

| CONTROL | RANGE / OPTIONS | DEFAULT |
|---|---|---|
| Amp Attack | 0 ms to 5.00 s | 2 ms |
| Amp Hold | 0 ms to 1.00 s | 0 ms |
| Amp Decay | 5 ms to 5.00 s | 300 ms |
| Amp Sustain | 0 % to 100 % | 80 % |
| Amp Release | 5 ms to 5.00 s | 80 ms |

## LFO

| CONTROL | RANGE / OPTIONS | DEFAULT |
|---|---|---|
| LFO Shape | Sine · Triangle · Saw · Square · Sample & Hold | Sine |
| LFO Rate | 0.010 Hz to 30.00 Hz | 2.00 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 > Pulse Width | 0 % to 100 % | 0 % |

## EQ

| CONTROL | RANGE / OPTIONS | DEFAULT |
|---|---|---|
| EQ Low | -12.0 dB to +12.0 dB | 0.0 dB |
| EQ Mid | -12.0 dB to +12.0 dB | 0.0 dB |
| EQ High | -12.0 dB to +12.0 dB | 0.0 dB |

## Ducker

| CONTROL | RANGE / OPTIONS | DEFAULT |
|---|---|---|
| Ducker Rate | 1/8 · 1/4 · 1/2 · 1 bar | 1/4 |
| Ducker Depth | 0 % to 100 % | 80 % |
| Ducker Length | 0 % to 100 % | 35 % |
| Ducker Offset | 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 |

## Delay

| CONTROL | RANGE / OPTIONS | DEFAULT |
|---|---|---|
| Delay Mix | 0 % to 100 % | 0 % |
| Delay Feedback | 0 % to 95 % | 35 % |
| Delay Division | 1/32 · 1/16 · 1/8T · 1/8 · 1/8. · 1/4 · 1/2 · 1 bar · 2 bars · 4 bars | 1/8. |

ATOMIC LABS

# Basalt · Dedicated bass synthesizer

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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