ATOMIC LABS

EFFECT

SHIFTWAVE

Stereo frequency shifter

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



USER MANUAL

VERSION 1.0 · 2026

01 About Shiftwave

Shiftwave moves every frequency of the input by the same number of Hz, up, down, both ways or as ring modulation. Small shifts give a wide, chorus-like detune; large shifts give metallic, inharmonic sounds.

A feedback delay sends the shifted sound back through the shifter for endless spirals (barber pole). An LFO, an envelope follower and MIDI notes can move the shift.

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

FACTORY PRESETS	CONTROLS	WINDOW	VERSION
300 + Init	27 automatable	Resizable	1.0

02 Quick start

1. Insert Shiftwave and set Shift to a few Hz with Mix at 50 % for a subtle widening.
2. Raise Feedback and set a Delay Time for spiralling echoes.
3. Choose Mode: Up, Down, Up / Down, Dual or Ring.
4. Turn on MIDI Track to set the shift from MIDI notes.

INSTALLATION

Install

Copy the folder `Shiftwave.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



Shift

Shift (fine near zero, up to +-5 kHz), Fine, Mode and Stereo Spread.

Feedback delay

Delay Time or Sync Division, Feedback, Feedback Damping, Diffusion.

Movement

LFO (rate, sync, division, shape, depth, LFO Stereo), Envelope > Shift with Sensitivity, MIDI Track.

Output

Drive, Low Cut, High Cut, Wet Width, Ducking, Mix, Output and Bypass.

04 Presets

Shiftwave 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** Subtle Widen
- **30** Barber Pole
- **30** Spiral Feedback
- **30** Metallic Ring
- **30** Detune & Chorus
- **30** Psy Sweeps
- **30** Robot & Sci-Fi
- **30** Tempo Motion
- **30** Drum Mangle
- **30** Ambient Shift

A FEW TO TRY

- Wide Widener
- Stereo Image
- Glass Space
- Soft Widener
- Falling Tower
- Endless Pole
- Climb Loop
- Helix Tower
- Cyclone Repeats
- Galaxy Delay
- Orbit Echo
- Spiral Repeats
- Alloy Bell
- Iron Metal
- Gong Plate
- Lush Chorus
- Thick Ensemble
- Golden Detune
- Warm Chorus
- Riser Rise
- Psy Sweep
- Astral Zoom
- Hypno Rise
- Cyber Unit
- Dalek Transmission
- Android Voice
- Robot Unit
- Strobe Steps
- Chopped Shift
- Trigger Pulse
- Smashed Drums
- Elastic Breaks
- Rubber Hits
- Kinked Drums
- Cloud Shimmer
- Ethereal Tail

05 Tips

> Barber pole: Shift 2-5 Hz, Feedback 70 %, short delay.

> Shift drums by +-30 Hz for strange metallic grooves.

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\Shiftwave\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
Shift	-5.00 kHz to +5.00 kHz	+40.0 Hz
Fine	-10.0 Hz to +10.0 Hz	0.00 Hz
Mode	Up · Down · Up / Down · Dual · Ring	Up
Stereo Spread	-50.0 Hz to +50.0 Hz	0.00 Hz
Feedback	-98 % to +98 %	0 %
Feedback Damping	0 % to 100 %	30 %
Envelope > Shift	-100 % to +100 %	0 %
Envelope Sensitivity	0 % to 100 %	50 %
MIDI Track	Off · On	Off
Drive	0 % to 100 %	0 %
Low Cut	20 Hz to 4.00 kHz	20 Hz
High Cut	200 Hz to 20.00 kHz	20.00 kHz
Mix	0 % to 100 %	50 %
Output	-24.0 dB to +12.0 dB	0.0 dB
Bypass	Off · On	Off
Wet Width	0 % to 200 %	100 %
Ducking	0 % to 100 %	0 %
Diffusion	0 % to 100 %	0 %
LFO Stereo	0 % to 100 %	0 %

Delay

CONTROL	RANGE / OPTIONS	DEFAULT
Delay Time	1.0 ms to 2000 ms	120 ms
Delay Sync	Off · On	Off
Delay Division	1/32 · 1/16 · 1/8T · 1/8 · 1/4 · 1/2 · 1 bar · 2 bars · 4 bars	1/8

LFO

CONTROL	RANGE / OPTIONS	DEFAULT
LFO Rate	0.02 Hz to 20.00 Hz	0.16 Hz
LFO Sync	Off · On	Off
LFO Division	1/32 · 1/16 · 1/8T · 1/8 · 1/4 · 1/2 · 1 bar · 2 bars · 4 bars	1/4
LFO Shape	Sine · Triangle · Saw · Square · Sample & Hold · Drift	Sine
LFO Depth	0.0 Hz to 1000.0 Hz	0.0 Hz

ATOMIC LABS

Shiftwave · Stereo frequency shifter

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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