ATOMIC LABS

INSTRUMENT

MANTRA

Formant choir and vocal synthesizer

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



USER MANUAL

VERSION 1.0 · 2026

01 About Mantra

Mantra sings. Each voice is a modelled vocal source shaped by five formant resonators that morph smoothly through the vowels MM - U - O - A - E - I. Voice type and head size change the singer, from a deep monk to a child.

A tuned overtone resonator adds throat-singing whistles, an undertone adds a deep subharmonic, and up to six choir voices per note turn one singer into a choir. A delay and a temple reverb complete it.

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

FACTORY PRESETS	CONTROLS	WINDOW	VERSION
300 + Init	44 automatable	Resizable	1.0

02 Quick start

1. Pick a preset and hold a note.
2. Move the vowel across the XY mouth pad (or with the mod wheel) to make it speak.
3. Raise Overtone and change Overtone Harmonic to hear throat-singing whistles above the note.
4. Raise Choir for a full ensemble.

INSTALLATION

Install

Copy the folder `Mantra.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



Voice

Voice Type (Bass, Tenor, Alto, Soprano, Child, Giant), Head Size, Octave, Softness, Breath and Undertone (a deep subharmonic).

Vowel

The XY mouth pad and the Vowel control pick the vowel (MM, U, O, A, E, I). A Vowel LFO (depth, rate or tempo division, shape), Mod Wheel > Vowel and Velocity > Vowel make it talk.

Overtone

Overtone adds a resonator locked to one harmonic of the note (Overtone Harmonic) for throat-singing melodies; Overtone Sweep moves the harmonic with an LFO.

Vibrato and Humanize

Vibrato Depth, Rate and Delay, plus Humanize for natural variation.

Choir

Choir Voices (up to 6 per note), Choir Detune, Spread and Variation.

Play and envelope

Voice Mode (Poly, Mono, Legato), Voices, Glide, Velocity > Level, Bend Range, and Attack, Decay, Sustain, Release.

Effects

Ping-pong Delay (mix, feedback, sync, division or time, tone), Temple Reverb with size, Width and Volume.

04 Presets

Mantra 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 Monk Chant
30 Throat Singing
30 Gregorian Choir
30 Angel Choir
30 Solo Singer
30 Talking Leads
30 Vowel Pads
30 Giants & Creatures
30 Dub Echo Voices
30 Overtone Drones

A FEW TO TRY

- Mountain Chant
- Saffron Hum
- Ancient Om
- Silent Chant
- Whistling Whistle
- Steppe Song
- Overtone Drone
- River Whistle
- Cathedral Hymn
- Candle Voices
- Abbey Choir
- Cloister Hymn
- Cloud Voices
- Light Aah
- Crystal Angels
- Velvet Voice
- Golden Lead
- Tender Singer
- Bright Voice
- Wah Voice
- Talking Lead
- Stepping Talk
- Babble Voice
- Aurora Breath
- Distant Voices
- Breathing Pad
- Floating Breath
- Ogre Growl
- Colossus Song
- Abyss Chant
- Dub Voice
- Bounce Shout
- Sound System Chant
- Yard Voice
- Spectral Choir
- Harmonic Drone

05 Tips

Monk chant: bass voice, vowel O, low notes, big reverb.

Overtone melodies: hold one low note and move the overtone harmonic up and down.

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\Mantra\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
Vowel	MM (0) to I (100)	A (60)
Head Size	0 % to 100 %	50 %
Voice Type	Bass · Tenor · Alto · Soprano · Child · Giant	Bass
Octave	-2 to 2	0
Mod Wheel > Vowel	0 % to 100 %	60 %
Velocity > Vowel	-100 % to +100 %	0 %
Softness	0 % to 100 %	40 %
Breath	0 % to 100 %	15 %
Undertone	0 % to 100 %	0 %
Humanize	0 % to 100 %	30 %
Voice Mode	Poly · Mono · Legato	Mono
Voices	1 to 8	8
Glide	Off to 804 ms	54 ms
Velocity > Level	0 % to 100 %	40 %
Bend Range	0 to 12	2
Attack	2 ms to 5.00 s	80 ms
Decay	5 ms to 5.00 s	400 ms
Sustain	0 % to 100 %	85 %
Release	5 ms to 8.00 s	600 ms
Temple Reverb	0 % to 100 %	20 %
Reverb Size	0 % to 100 %	70 %
Width	0 % to 200 %	100 %
Volume	-36.0 dB to +6.0 dB	-3.0 dB

Vowel

CONTROL	RANGE / OPTIONS	DEFAULT
Vowel LFO Depth	0 % to 100 %	0 %
Vowel LFO Rate	0.01 Hz to 12.00 Hz	0.30 Hz
Vowel LFO Sync	Off · On	Off
Vowel LFO Division	1/16 · 1/8T · 1/8 · 1/8. · 1/4 · 1/4. · 1/2 · 1 bar	1/4
Vowel LFO Shape	Sine · Triangle · Ramp Up · Ramp Down · Random	Sine

Overtone

CONTROL	RANGE / OPTIONS	DEFAULT
Overtone	0 % to 100 %	0 %
Overtone Harmonic	2.0 to 24.0	8.0
Overtone Sweep (LFO)	0 % to 100 %	0 %

Vibrato

CONTROL	RANGE / OPTIONS	DEFAULT
Vibrato Depth	0 ct to 80 ct	20 ct
Vibrato Rate	0.50 Hz to 12.00 Hz	5.20 Hz
Vibrato Delay	0 ms to 3.00 s	400 ms

Choir

CONTROL	RANGE / OPTIONS	DEFAULT
Choir Voices	1 to 6	1
Choir Detune	0 % to 100 %	30 %
Choir Spread	0 % to 100 %	60 %
Choir Variation	0 % to 100 %	30 %

Delay

CONTROL	RANGE / OPTIONS	DEFAULT
Delay Mix	0 % to 100 %	25 %
Delay Feedback	0 % to 95 %	40 %
Delay Sync	Off · On	On
Delay Division	1/16 · 1/8T · 1/8 · 1/8. · 1/4 · 1/4. · 1/2 · 1 bar	1/4
Delay Time	20 ms to 2000 ms	400 ms
Delay Tone	0 % to 100 %	50 %



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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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