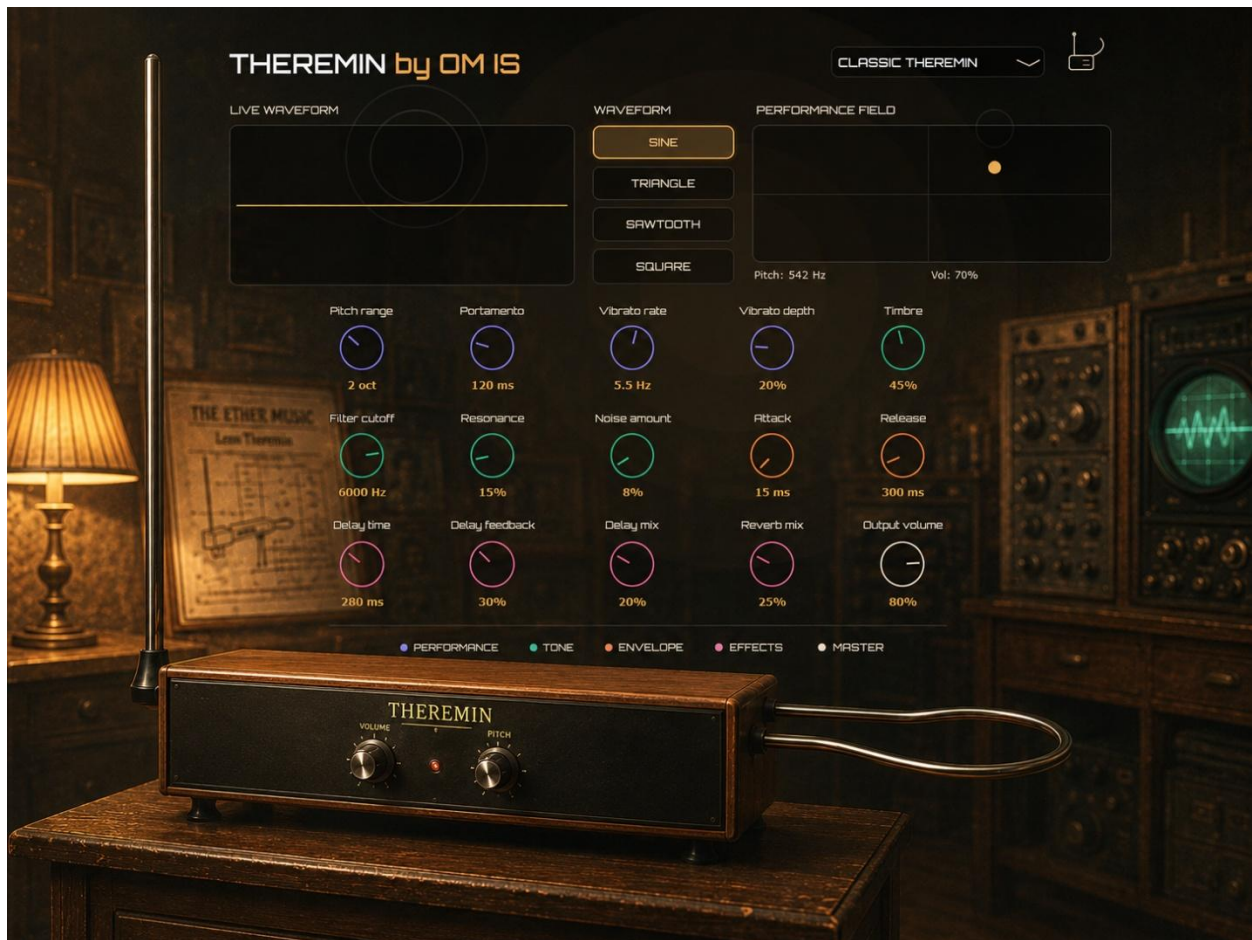


Theremin by OM IS

User Manual — Panel 800x600px resizable 200%

VSTi Version 1.1 · VST3 format · Windows and macOS



1. Introduction

Theremin by OM IS, is a virtual instrument VSTi that emulates the sound and playing gesture of a classic theremin. Instead of two physical antennas, the plugin gives you an on-screen performance field: moving across it changes pitch (horizontal axis) and volume (vertical axis), just like moving your hands near a real theremin's antennas.

On top of that core gesture, the plugin adds a full modulation section - vibrato, timbre shaping, a resonant filter, a noise layer for analog character, an amplitude envelope, delay, and reverb - so you can shape anything from a faithful vintage tone to modern pads and sci-fi leads.

2. Installation

To install the plugin:

1. Copy the **Theremin by OM IS.vst3** file into your system's VST3 folder (*C:\Program Files\Common Files\VST3* on Windows, or *~/Library/Audio/Plug-Ins/VST3/* on macOS).
2. Open your DAW (Ableton Live, FL Studio, Reaper, Cubase, Studio One, etc.).
3. Force a plugin rescan if your DAW does not detect it automatically.
4. Create a new instrument track and load **Theremin by OM IS** from the instrument list.

3. Interface overview

The screenshot above shows the finished 800px x 600px interface resizable to 200%. It is organized into four zones:

Zone	Description
Header	Plugin title, the preset selector (8 factory presets) and a small theremin diagram in the top-right corner.
Live Waveform	A real-time oscilloscope showing the exact shape of the signal currently being synthesized.
Waveform Selector	Four buttons to choose the oscillator's base shape: Sine, Triangle, Sawtooth or Square.
Performance Field	The virtual antenna pair. Click and drag inside it: the horizontal position sets pitch, the vertical position sets volume.
Knob Grid	15 colour-coded rotary controls grouped into five categories: Performance, Tone, Envelope, Effects and Master.

4. Performance field and MIDI

You can play Theremin by OM IS two ways, and both work at the same time:

With the mouse - click and hold inside the performance field. While the mouse button is down, the plugin produces sound: dragging left/right bends the pitch across the octave range set by the *Pitch range* knob, and dragging up/down changes the volume. Releasing the mouse fades the note out using the *Release* time.

With a MIDI keyboard or controller - regular MIDI notes are also fully supported. Note number sets the pitch, the pitch-bend wheel bends it further, and the mod wheel (CC1) controls volume. MIDI input takes priority over the performance field while a note is held.

The pad's X/Y position is also exposed as two automatable host parameters (*Pad Pitch* and *Pad Volume*), so you can automate a theremin-style gesture from your DAW's automation lanes as well.

5. Waveforms and timbre

The four waveform buttons choose the oscillator's base harmonic content: Sine is the purest, closest to a vintage theremin; Triangle is slightly richer; Sawtooth and Square are brighter and better suited to leads. The *Timbre* knob then blends between a pure sine tone and the selected waveform, letting you dial in anything from a soft, breathy tone to a fully harmonic-rich one without switching waveforms.



6. Parameter reference

All 15 knobs, grouped by category exactly as they appear on the panel:

Performance

Control	Range	Default	Function
Pitch range	1 - 4 oct	2 oct	Total octave span covered by the performance field's horizontal axis.
Portamento	0 - 500 ms	120 ms	Glide time between pitches - the slower, more vocal slide typical of a theremin.
Vibrato rate	0 - 10 Hz	5.5 Hz	Speed of the pitch vibrato.
Vibrato depth	0 - 100%	20%	Intensity of the pitch vibrato.

Tone

Control	Range	Default	Function
Timbre	0 - 100%	45%	Blends from a pure sine tone toward the selected waveform's full harmonic content.
Filter cutoff	200 - 12000 Hz	6000 Hz	Cutoff frequency of the low-pass filter.
Resonance	0 - 100%	15%	Emphasis/resonance at the filter's cutoff frequency.
Noise amount	0 - 100%	8%	Amount of soft white noise blended in for analog character.

Envelope

Control	Range	Default	Function
Attack	0 - 500 ms	15 ms	Fade-in time when a note starts (mouse-down or MIDI note-on).
Release	0 - 2000 ms	300 ms	Fade-out time when a note ends (mouse-up or MIDI note-off).

Effects

Control	Range	Default	Function
Delay time	0 - 1000 ms	280 ms	Time between the dry signal and its first echo.
Delay feedback	0 - 90%	30%	How much of each echo feeds back into the next one.
Delay mix	0 - 100%	20%	Dry/wet balance of the delay effect.
Reverb mix	0 - 100%	25%	Amount of reverb (room ambience) added to the signal.

Master

Control	Range	Default	Function
Output volume	0 - 100%	80%	Final output level of the plugin.

7. Factory presets

Eight factory presets are included as a starting point, selectable from the top-of-panel menu, fully customizable.

- **CLASSIC THEREMIN** – The default, balanced setting - a faithful vintage tone.
- **WARM VOCAL** – Softer timbre and a longer release for a voice-like character.
- **SCI-FI LEAD** – Bright, resonant and fast - built for cutting leads.
- **GLASSY OVERTONE** – High cutoff and long release for a shimmering, bell-like tone.
- **DEEP BASS DRONE** – Low pitch range and slow portamento for sustained low tones.
- **ETHEREAL PAD** – Long attack/release with heavy reverb and delay for ambient pads.
- **VINTAGE RCA** – Extra noise amount for the character of an early-generation theremin.
- **METALLIC SHIMMER** – Wide pitch range and high resonance for bright, metallic textures.

8. Troubleshooting

- **The plugin doesn't appear in my DAW.**
Confirm the .vst3 file is in your system's VST3 folder and force a plugin rescan in your DAW's settings.
- **No sound is coming out.**
Make sure you are clicking and holding inside the performance field, or sending MIDI notes to the track. Also check the Output volume knob and your track's fader/routing.
- **The pitch sounds "stuck" or doesn't move smoothly.**
Lower the Portamento knob for snappier pitch changes, or raise it for a smoother glide.
- **The sound is too harsh at high notes.**
Lower the Filter cutoff and/or Resonance knobs, or reduce the Timbre knob toward the sine end.

9. Credits

Theremin v. 1.1 by **Om Infinite Sound** 2026

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