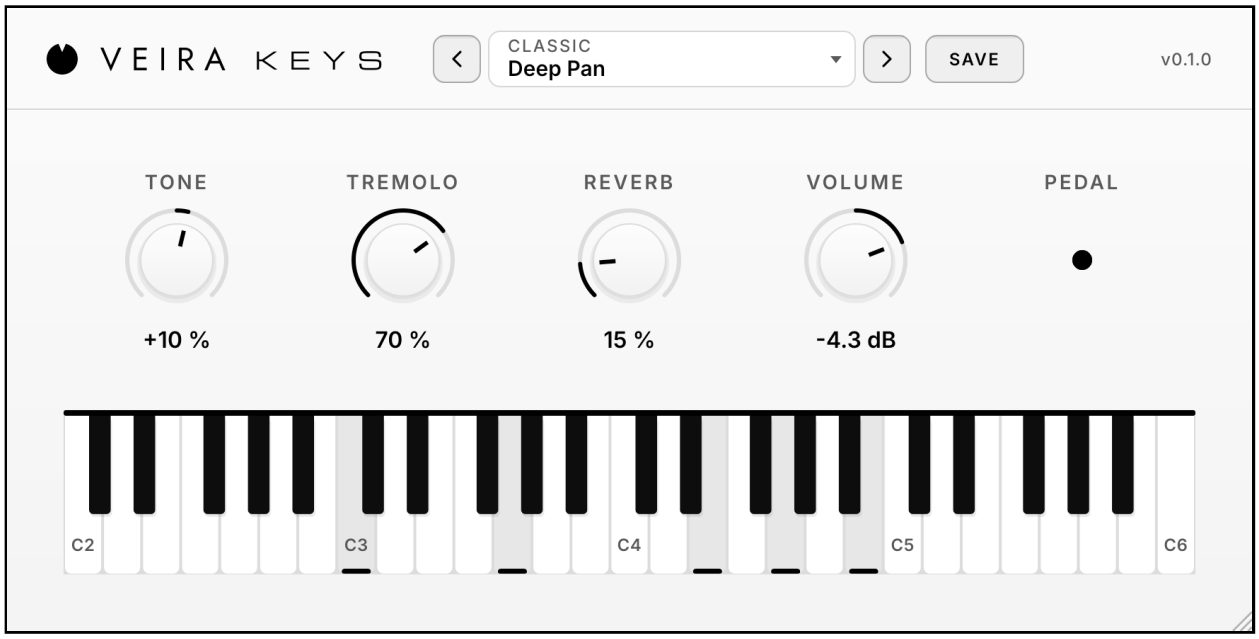
VEIRA

ELECTRIC PIANO

VEIRA Keys

User Manual

One electric piano, as clean and lean as it gets: a synthesized electric tine piano, four knobs and real pedals on a flat white face. Free.



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Welcome

Thank you for choosing **VEIRA Keys**. It is one electric piano, as clean and lean as it gets: a single sound, an electric tine piano, warm and round in the low end, with a bell-like bark when you play hard, smooth from the softest touch to the hardest and gently spread in stereo. Four knobs, real pedals, and a flat white face. It is free.

The lean sibling of VEIRA Clean Piano. It shares VEIRA Clean Piano's engine and its flat face, cut down to the electric piano alone. There is no noise and no wobble: when the notes and the room have died away, the output is exact digital silence.

Synthesized, not sampled. Every note is made in code as you play, from up to 16 decaying sine partials built when its key is struck. No recordings are used.

What makes it different

- **One sound, done carefully:** the tine and its tone bar, the pickup's bark that grows with how hard you play and settles back to round, and the tine's bell on a hard hit.
- **Four knobs:** TONE, TREMOLO (a stereo auto-pan whose speed follows its depth), REVERB (a clean room) and VOLUME.
- **Real pedals:** sustain with half pedal, sostenuto and soft.
- **48 voices**, no latency, and the same render at any buffer size.
- **Free**, delivered and licensed through VEIRA Manager like every VEIRA plugin.
- **12 factory presets** in 3 folders, each with a note, levelled on the same pedalled phrase.

How this manual is organised. *Getting started* installs and activates the plugin. *The face at a glance* names its parts, and *How it makes its sound* explains the synthesis. *The four knobs* and *The pedal and the keys* describe every control. *Presets*, *Recipes*, *Specifications* and *Troubleshooting* close the manual.

Getting started

What you need

macOS	macOS 11 Big Sur or later. Native on Apple silicon and Intel Macs (universal).
Windows	Windows 10 or 11, 64-bit.
Plugin formats	VST3 (macOS and Windows), Audio Units (macOS), and a standalone app. Pro Tools (AAX) versions arrive once they are signed for Pro Tools.
Hosts	Any DAW that loads VST3 or Audio Units: Logic Pro, Cubase, Nuendo, Ableton Live, Studio One, Reaper, FL Studio, Bitwig and others.
Account	A VEIRA account at veiraaudio.com, and the free **VEIRA Manager** app.
Internet	Needed to install and to refresh the licence. The plugin itself never goes online.

Install with VEIRA Manager

VEIRA plugins are not downloaded from the website one by one. You install them with **VEIRA Manager**, the free VEIRA app that installs, updates and activates everything you own. Its own manual covers it in full; the short version is:

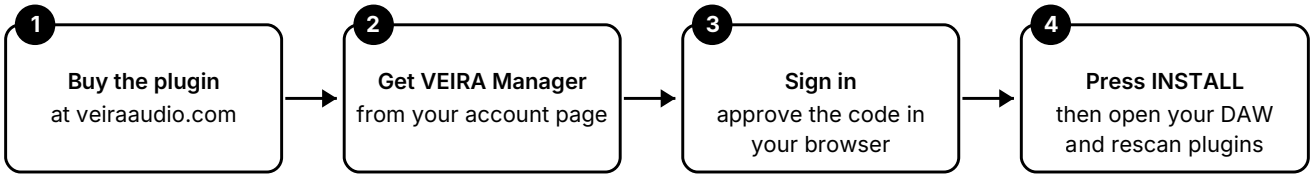


FIGURE 1 From purchase to first sound in four steps.

1. **Buy** VEIRA Keys at **veiraaudio.com**. It's a one-time purchase: you own it for good, with free updates.
2. **Download VEIRA Manager** from your account page (or veiraaudio.com/manager) and install it.
3. **Sign in.** VEIRA Manager shows a short code and opens your browser; confirm the code there. Your password is never typed into the app.
4. Find VEIRA Keys in the list and press INSTALL. When it says SHOW, it's installed. Open your DAW and let it rescan its plugins.

After installing, VEIRA Keys appears in your DAW under the manufacturer **VEIRA** (in Logic Pro: Audio Units ▸ VEIRA ▸ VEIRA Keys).

Activation and the licence

VEIRA Manager keeps a licence on your computer that the plugins check. It is refreshed every time VEIRA Manager opens and stays valid for 30 days offline, so you can work without internet as long as you open VEIRA Manager now and then.

Without a valid licence, VEIRA Keys still loads and works, but **its sound fades out for 1.5 seconds every 30 seconds**, and a strip along the bottom of its window says why (for example, *NOT ACTIVATED ON THIS COMPUTER. SIGN IN WITH VEIRA MANAGER.*). Clicking the strip opens your account page.

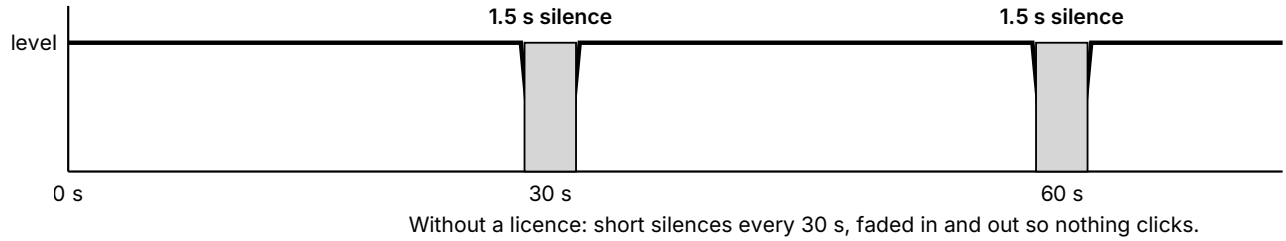


FIGURE 2 What an unlicensed copy does. With a valid licence the audio is never touched.

- **Activating while your DAW is open** takes effect within about two minutes. You don't need to reload the plugin.
- **"Not activated on this computer"**: open VEIRA Manager and sign in.
- **"Expired"**: open VEIRA Manager while online; it renews the licence at once.
- **"Not included"**: the signed-in account doesn't own VEIRA Keys. Check that you're signed in with the account you bought it with.

Formats and where the files go

VEIRA Manager puts every format in the standard place, so you never need to copy files by hand:

Format	macOS	Windows
VST3	`~/Library/Audio/Plug-Ins/VST3` (just for me, the default) or `/Library/Audio/Plug-Ins/VST3` (all users)	`C:\Program Files\Common Files\VST3` (all users, the default) or `%LOCALAPPDATA%\Programs\Common\VST3`
Audio Units	`~/Library/Audio/Plug-Ins/Components` or `/Library/Audio/Plug-Ins/Components`	(Audio Units are macOS only)
Standalone	`~/Applications/VEIRA` or `/Applications/VEIRA`	`C:\Program Files\VEIRA` or `%LOCALAPPDATA%\Programs\VEIRA`

You choose *just for me* or *all users* in VEIRA Manager's install settings.

The standalone app runs VEIRA Keys on its own, with your audio interface's input and output, which is handy for trying presets without a DAW.

The face at a glance

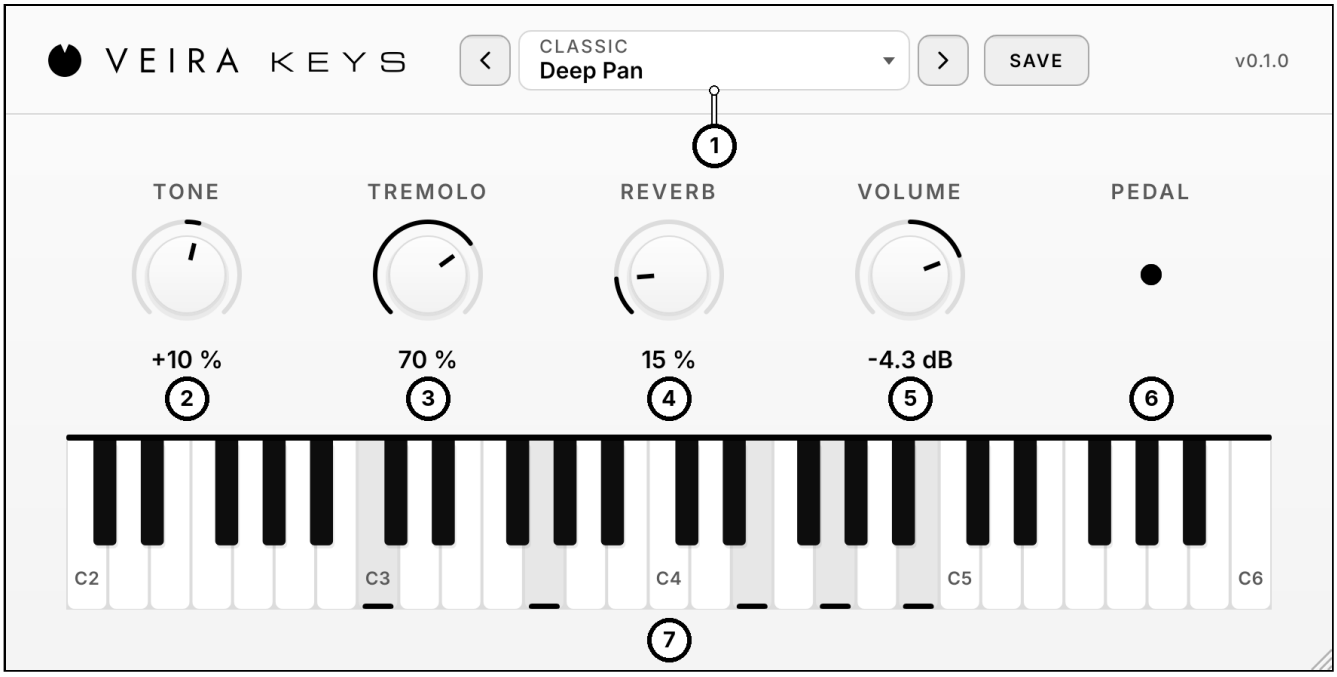


FIGURE 3 VEIRA Keys playing *Classic* ▸ *Deep Pan* with the sustain pedal down: 1 the preset browser, 2 TONE, 3 TREMOLO, 4 REVERB, 5 VOLUME, 6 the PEDAL dot and 7 the keys.

	Part	What it does
1	Header	The preset browser, SAVE, and the version.
2	TONE	A tilt from darker and rounder to brighter, with the bark forward.
3	TREMOLO	A stereo auto-pan; one knob sets both depth and speed.
4	REVERB	How much of a clean room.
5	VOLUME	The final level.
6	PEDAL	One dot that fills with the sustain pedal, part way for half pedal.
7	Keys	C2 to C6, played with the mouse or from your keyboard.

Using the controls

Every VEIRA plugin is played like a piece of hardware. The same few parts appear on every panel:

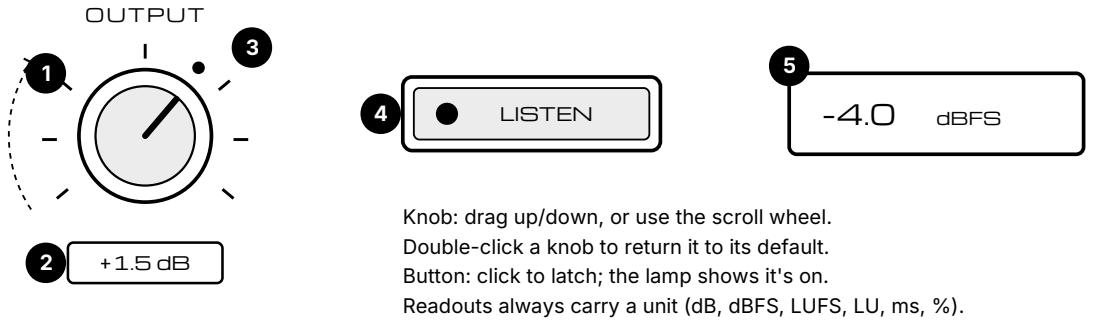


FIGURE 4 The parts you'll find on every VEIRA panel (the labels are examples).

- 1 **Knob.** Drag up to turn it clockwise, down to turn it back, or use your mouse wheel. **Double-click** returns it to its default. The engraved pointer and the small dot on the scale show where it's set.
- 2 **Value window.** The backlit window under each knob shows its exact value with its unit.
- 3 **Silkscreen label.** The control's name, as it appears in your DAW's automation list.
- 4 **Push button.** Click to switch on; the lamp lights and the cap sits lower in its bezel. Click again to switch off.
- 5 **Readout.** Live numbers update ten times a second so you can read them while the meters move. A value over 0 dBFS shows as a warning.

Tooltips: hover over any control or display for a short explanation. On displays, the tooltip depends on where you point.

Automation: every knob and button is a host parameter, so you can automate it in your DAW and control it from a MIDI controller or control surface that your DAW maps.

Units: VEIRA never shows a bare number. **dBFS** is level against digital full scale (0 dBFS is the loudest a digital signal can be); **dB** is a change in gain; **LUFS** is loudness as streaming services and broadcasters measure it; **LU** is a difference in loudness (1 LU = 1 dB).

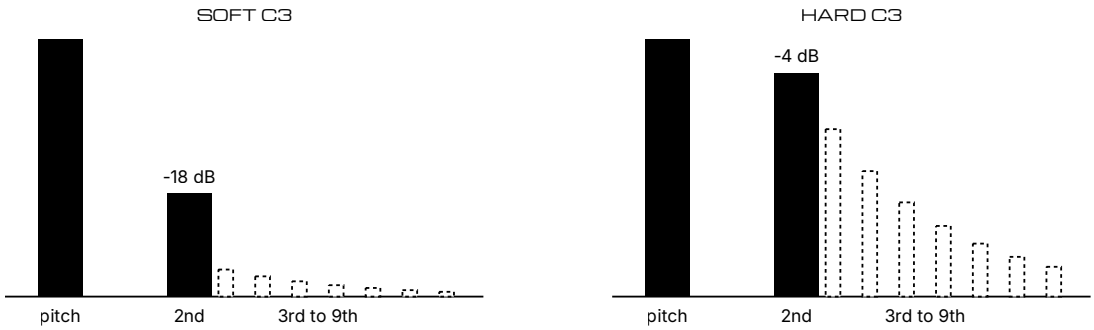
On VEIRA Keys' face the parts look a little different from the drawing above:

- **Knobs show their value under them** (+10 %, 70 %, -4.3 dB), with a ring that fills as you turn. Drag up and down or use the wheel; right-click a knob (Control-click on a Mac) to type a value; double-click for its default.
- **The PEDAL dot** fills as the sustain pedal goes down, part way for half pedal, and fully while sostenuto holds notes.
- **Resize the window:** drag its bottom-right corner. It scales from 75 % to 200 % of its full size (880 × 440 points) and opens at 100 %. Your DAW saves the size with the session.

How it makes its sound

An electric tine piano makes its sound with a hammer, a thin metal tine and a pickup. VEIRA Keys builds every note from those parts when its key is struck, as a bank of up to 16 decaying sine partials. This is modal synthesis; partials that have died away are dropped, so a ringing note costs less and less.

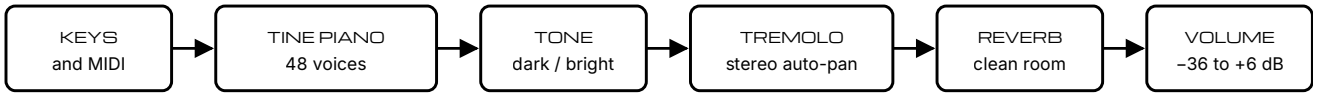
- **The tine and its tone bar** ring at the note's pitch as two components a fraction of a cent apart: a quicker "prompt" and a long sustain. That is the warm, round body. A low note sings on for well over 10 s, a high one for a second or two.
- **The pickup** turns the tine's swing into exact harmonics, the 2nd to the 9th, that grow with how hard it swings: on a soft C3 the 2nd harmonic is 18 dB under the fundamental, on a hard one 4 dB. Each fades faster than the one below it, so the bark settles back to round within about a second. It is strongest from the bass to the middle of the keys.
- **The bell:** the tine's own inharmonic modes ring briefly on a hard hit, and hardly at all on a soft one.
- **The hammer** adds a soft tap of about 2 ms.



The pickup's harmonics grow with how hard you play (the dashed ones are drawn only to show the trend). Each fades faster than the one below it, so the bark settles back to round within about a second.

FIGURE 5 The bark: soft and hard notes.

Velocity covers 34 dB from the softest note to the loudest on a smooth curve, and the bark and the bell follow it. **The stereo image** is gentle: the keys spread a little across the speakers (C2 about 2.5 dB to the left, C6 about 2 dB to the right), and a wide chord loses under 0.5 dB summed to mono.



The room comes after the tremolo, so its tail doesn't swing. Once the notes and the room have died away, the output is exact digital silence.

FIGURE 6 From key to output.

The four knobs

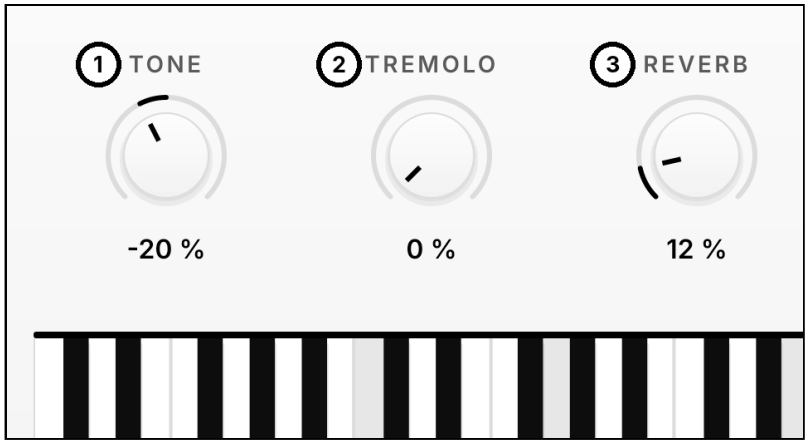


FIGURE 7 *Classic ▸ Round Tines*: 1 TONE at −20 %, 2 TREMOLO at 0 % (off) and 3 REVERB at 12 %.

Knob	Range	Default	What it does
TONE	−100 to +100 %	0 %	A tilt from darker and rounder (left) to brighter, with the bark forward (right): a 1.2 kHz high shelf of ±8 dB and a 240 Hz low shelf of ∓3 dB. At 0 % it is switched out.
TREMOLO	0 to 100 %	0 %	A stereo auto-pan. One knob sets both depth and speed. At 0 % it is switched out.
REVERB	0 to 100 %	20 %	How much of a clean room.
VOLUME	−36 to +6 dB	−4 dB	The final level.

TREMOLO

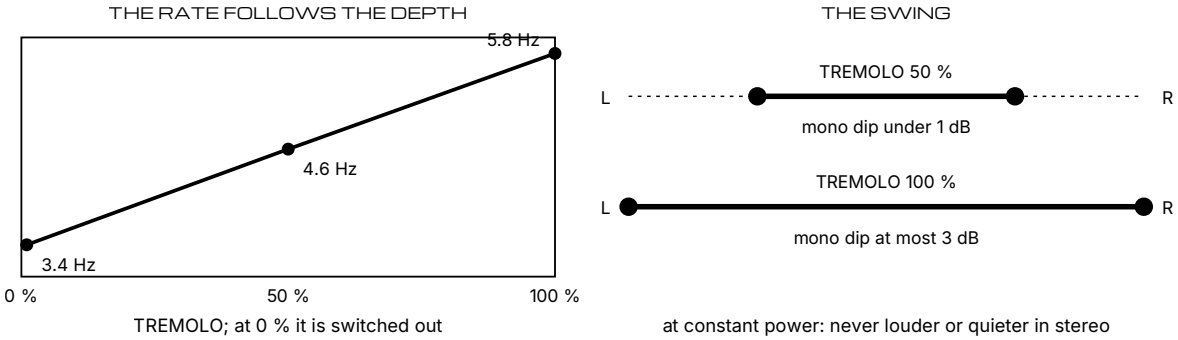


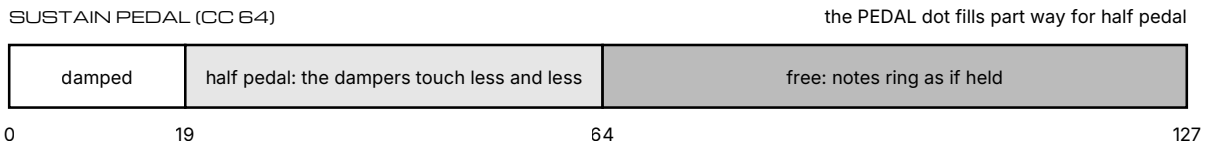
FIGURE 8 TREMOLO.

The sound swings between the speakers at constant power, so it never gets louder or quieter in stereo. The rate follows the depth, from a slow 3.4 Hz sway when shallow to a livelier 5.8 Hz at full (4.6 Hz at 50 %). At full depth it swings from one speaker to the other; summed to mono it dips at most 3 dB, and under 1 dB at 50 %. For the classic stereo electric piano, try about 70 % (*Classic* ▸ *Deep Pan*).

REVERB: a clean room

The send is high-passed at 180 Hz and softened above 8 kHz, with a 22 ms pre-delay. The room decays over about 2.2 s in the lows and 0.8 s in the highs, and it has no modulation, so nothing wobbles. It comes after the tremolo, so its tail does not swing, and when it has died away it is cleared to exact silence.

The pedal and the keys



SOSTENUTO (CC 66) holds only the keys down when you press it; SOFT (CC 67) plays the next notes 3.5 dB softer and rounder.

FIGURE 9 The sustain pedal.

The pedals come in as MIDI from your keyboard, as on a real piano; they are not parameters. The PEDAL dot shows them.

- **SUSTAIN (CC 64)** lifts every damper. From 64 up, notes ring freely: a released note sounds exactly as if its key were still held. Between 19 and 64 the dampers touch more and more (half pedal), and at 19 or below they damp fully. The dampers fall silently. Striking a note again while the pedal holds it starts a new note and fades the old one over about 60 ms, so it never piles up or clicks.
- **SOSTENUTO (CC 66)** holds only the notes whose keys are down when you press it.
- **SOFT (CC 67)** plays the following notes 3.5 dB softer and rounder, with less bark.

The keys are a slim strip from C2 to C6, with C4 as middle C. Click or drag to play; clicking lower on a key plays louder. Notes from your DAW light the keys. The engine plays the full MIDI range.

MIDI: notes and velocity, pitch bend (±2 semitones), CC 64 (continuous), CC 66, CC 67, CC 120 (all sound off) and CC 123 (all notes off).

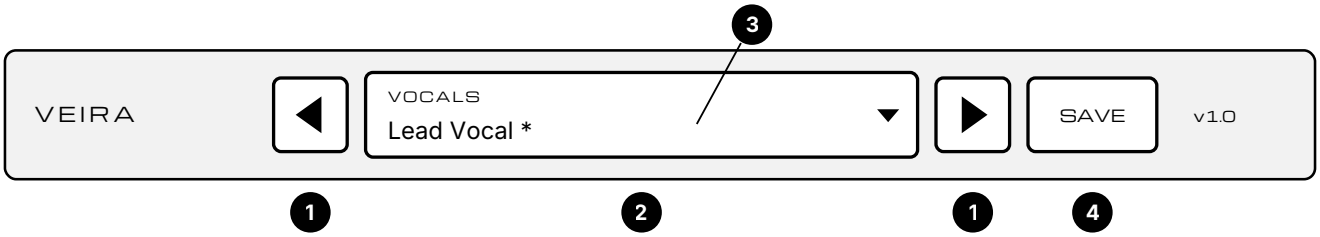
Voices: 48. A 49th note takes the quietest released note (or else the quietest held one) and fades it out over 5 ms, so nothing clicks.

Presets

VEIRA Keys comes with **12 factory presets** in 3 folders. Each one is a starting point made for a real job. Load one close to what you need, then adjust the first control its note mentions.

The preset browser

The preset browser sits in the header, at the top of the window.



The header: logo and plugin name, then the preset browser, then the version.

FIGURE 10 The preset browser.

- 1 ◀ ▶ step to the previous or next preset, through every folder in order.
- 2 **The display** shows the folder (small, above) and the preset's name. Click it to open the preset menu. Hover over it to read the preset's note: what it's for and what to adjust first.
- 3 **An asterisk (*)** after the name means you've changed something since the preset loaded.
- 4 SAVE stores your current settings as a user preset.

The preset menu

Clicking the display opens a menu with:

- one submenu per **factory folder**, in the order shown below;
- **User Presets**, with your own presets in their folders;
- **Save...**, **Delete** (only for user presets: factory presets can't be deleted), **Rescan** (re-reads the user folder, if you copied presets in by hand) and **Show User Preset Folder** (opens it in Finder or Explorer).

Saving your own presets

1. Set VEIRA Keys the way you like it.
2. Press SAVE. A dialog opens inside the plugin window.
3. Type a name, choose a folder or type a new folder name, and confirm.

Each user preset is one small .veirapreset file:

	Folder
macOS	~/Library/Audio/Presets/VEIRA/VEIRA Keys/<Folder>/
Windows	%APPDATA%\VEIRA\VEIRA Keys\Presets\<Folder>\

Copy these files to move your presets to another computer, or to back them up. Presets keep loading in future versions: any control added later simply starts at its default.

Presets in your DAW

The factory presets also appear in your DAW's own preset or program menu, named *Folder: Name* (for example *Vocals: Lead Vocal*). Whatever preset is selected is saved with your session and comes back when you reopen it, including the asterisk if you'd changed it.

The **Default ▸ Init** preset equals a fresh instance of the plugin: every control at its default.

The factory folders

Folder	Presets
Default	Init
Classic	Round Tines, Bark And Bite, Gentle Sway, Deep Pan, Soul Ballad, Dry Session
Ambient	Night Room, Slow Shimmer, Far Away, Floating Pan, Glass Tines

> **Levelled on the same phrase.** Each preset's VOLUME was set so a pedalled ballad phrase plays at −20 LUFS, or as loud as peaks under −3 dBFS allow, with a fortissimo chord under −1.5 dBFS; they land between −20.4 and −23.0 LUFS. Hover the preset name to read its note.

Recipes

Soft ballad chords

1. Load *Default* ▸ *Init* and turn [TONE] down to about −20 %.
2. Keep [REVERB] around 12 to 20 % and play with the sustain pedal (*Classic* ▸ *Round Tines*).

A funky, barking line

1. Turn [TONE] up to about +35 % and [REVERB] down to about 8 %.
2. Dig in: harder notes bark (*Classic* ▸ *Bark And Bite*).

The stereo electric piano

1. Turn [TREMOLO] to about 70 %: a deep, lively auto-pan.
2. Add a touch of [TONE] and keep [REVERB] low (*Classic* ▸ *Deep Pan*).

A floating ambient bed

1. Turn [REVERB] up to about 65 % and [TREMOLO] to about 85 %.
2. Hold the pedal and let chords drift across the speakers (*Ambient* ▸ *Floating Pan*).

Specifications

Type	Electric piano (instrument), synthesized: no recordings; MIDI in, stereo or mono out, no audio input
Sound	One electric tine piano: tine and tone bar (two-stage decay), pickup harmonics 2nd to 9th growing with velocity, the tine's bell, a hammer tap; up to 16 partials per note
Velocity	34 dB from softest to loudest on a smooth curve; the bark and the bell follow it
Controls	TONE (±8 dB at 1.2 kHz, ∓3 dB at 240 Hz), TREMOLO (stereo auto-pan, 3.4 to 5.8 Hz following the depth), REVERB (clean room, about 2.2 s in the lows), VOLUME −36 to +6 dB
Stereo	Gentle: C2 about 2.5 dB left, C6 about 2 dB right; under 0.5 dB lost summed to mono
Clean	No noise, no wobble; exact digital silence once the notes and the room have died away
Pedals	Sustain (CC 64, half pedal), sostenuto (CC 66), soft (CC 67)
MIDI	Notes, velocity, pitch bend ±2 st, CC 64, CC 66, CC 67, CC 120, CC 123
Voices	48
Keys	C2 to C6 on the face; the engine plays the full MIDI range
Parameters	4 (TONE, TREMOLO, REVERB, VOLUME), all automatable; the pedals and pitch bend are MIDI
Latency	None
CPU	About 9 % of one core with 48 voices struck at once and pedalled, TONE, TREMOLO and REVERB on (48 kHz)
Presets	12 factory presets in 3 folders, plus your own
Window	880 × 440 points; resizable from 75 % to 200 %, opens at 100 %, saved with the session
Price	Free, licensed through VEIRA Manager
Formats	VST3, Audio Units (instrument), standalone; AAX once signed
Plugin ID	Manufacturer `Veir`, plugin `Vkey`

Troubleshooting and questions

The sound drops out for a moment every 30 seconds. The plugin isn't activated on this computer. Open VEIRA Manager and sign in; the strip at the bottom of the plugin's window says exactly what's wrong. See *Getting started ▸ Activation and the licence*. VEIRA Keys is free, but it is still added to your account and licensed like any VEIRA plugin.

I don't see VEIRA Keys in my DAW. It is an instrument: look for it where your DAW lists software instruments (in Logic Pro, as an instrument on a software instrument track), under the manufacturer **VEIRA**. Make sure VEIRA Manager shows SHOW (installed) for it, then rescan plugins.

Is it sampled? No. Every note is synthesized as you play, from decaying sine partials; no recordings are used.

Should I choose VEIRA Keys or VEIRA Clean Piano? VEIRA Keys is the electric piano alone, free, with a tremolo. VEIRA Clean Piano has four sounds (a grand, a bright grand, an electric tine piano and a felt piano) with WIDTH and a clean hall. Both share the same engine.

The tremolo is too fast or too slow. Its speed follows its depth: shallow is a slow sway, deep is livelier. Set the depth you like and the speed comes with it.

My sustain pedal does nothing, or works backwards. Check that your keyboard sends CC 64 and that the track receives it; the PEDAL dot fills when it arrives. If it is filled with the pedal up, your pedal's polarity is reversed: most keyboards have a setting for it.

Does it add latency? No.

Contact: support@veiraaudio.com. Mention your computer (Mac or Windows and its version), your DAW and version, and what you see.



VEIRA Keys · User Manual · Version 0.1.0

Support: **support@veiraaudio.com** · Web: **veiraaudio.com**

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