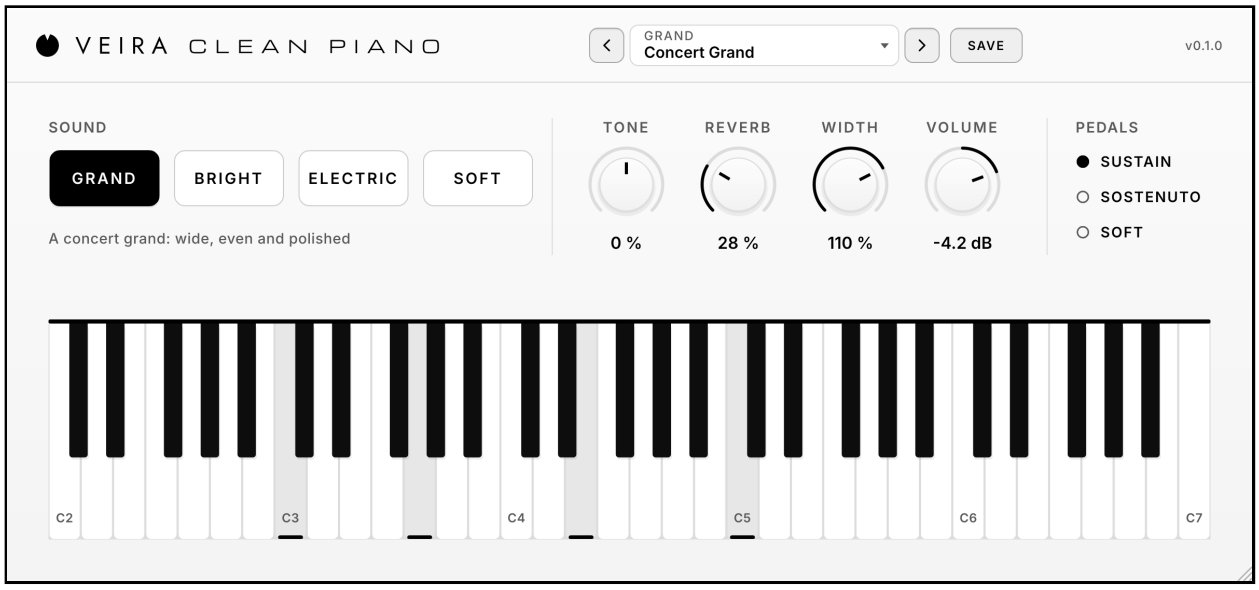
VEIRA

PIANO

VEIRA Clean Piano

User Manual

A modern piano, digital to the core: clean, hi-fi and simple. Four sounds, four knobs and real pedals on an all-white face, synthesized note by note.



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Welcome

Thank you for choosing **VEIRA Clean Piano**. It is a modern piano, digital to the core: clean, hi-fi and simple. Four sounds on four buttons, four knobs, and pedals that behave the way a pianist expects, on a flat, all-white face.

The modern sibling of VEIRA Digital Piano. Both share the same engine, voiced differently. VEIRA Digital Piano is the worn 1980s stage piano, with tremolo, chorus and an ageing sound chip; Clean Piano is the modern one. It has no noise, no wobble and no lo-fi stage: when the notes and the hall have died away, the output is exact digital silence.

Synthesized, not sampled. Every sound is made in code as you play: each note is built from up to 64 decaying sine partials when its key is struck. No recordings are used.

What makes it different

- **Four sounds:** GRAND (a polished concert grand), BRIGHT (a brighter modern grand), ELECTRIC (a clean electric tine piano) and SOFT (a felt piano).
- **Four knobs:** TONE, REVERB (a clean hall), WIDTH and VOLUME.
- **Real pedals:** sustain with half pedal, sostenuto and soft, with the other strings ringing along gently while the dampers are up.
- **A stereo image like a recorded grand:** the bass on the left, the treble on the right, and still sound in mono.
- **48 voices**, no latency, and the same render at any buffer size.
- **21 factory presets** in 6 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 and the four sounds. *The controls* and *The pedals and the keys* describe every control. *Presets*, *Recipes*, *Specifications* and *Troubleshooting* close the manual.

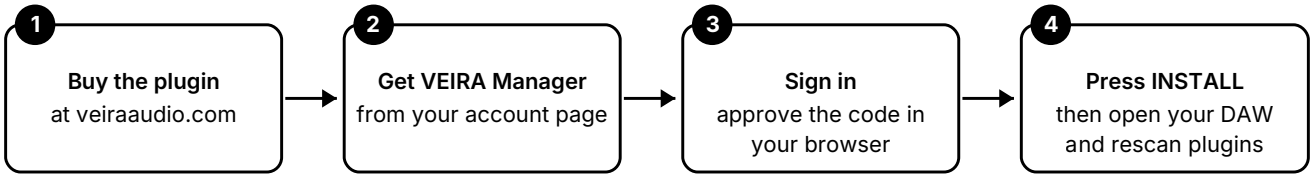
Getting started

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:



One account works on up to three computers. Updates are free for life.

FIGURE 1 From purchase to first sound in four steps.

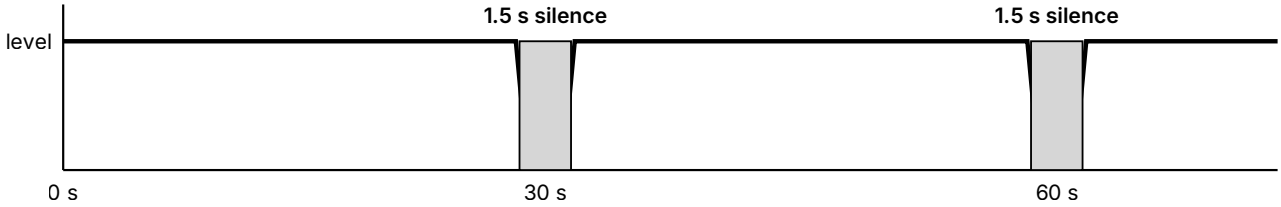
1. **Buy** VEIRA Clean Piano at **veiraaudio.com**. It's a one-time purchase: you own it for good, with free updates.
2. **Download VEIRA Manager** from your account page (or veiraaudio.com/manager) and install it.
3. **Sign in.** VEIRA Manager shows a short code and opens your browser; confirm the code there. Your password is never typed into the app.
4. Find VEIRA Clean Piano 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 Clean Piano appears in your DAW under the manufacturer **VEIRA** (in Logic Pro: Audio Units ▸ VEIRA ▸ VEIRA Clean Piano).

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 Clean Piano 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.



Without a licence: short silences every 30 s, faded in and out so nothing clicks.

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 Clean Piano. 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 Clean Piano 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

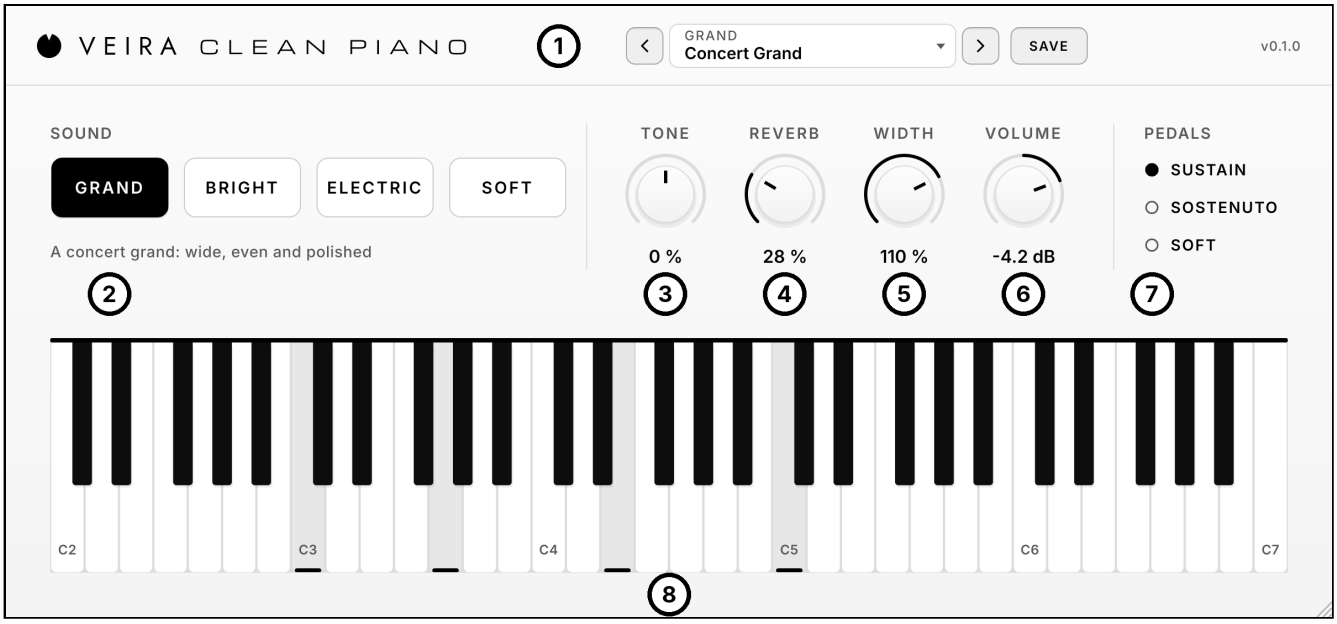


FIGURE 3 VEIRA Clean Piano playing *Grand* ▸ *Concert Grand* with the sustain pedal down: 1 the preset browser, 2 SOUND, 3 TONE, 4 REVERB, 5 WIDTH, 6 VOLUME, 7 PEDALS and 8 the keys.

	Part	What it does
1	Header	The preset browser, SAVE, and the version.
2	SOUND	Four buttons pick the sound; a line under them says what it is.
3	TONE	A tilt from darker to brighter.
4	REVERB	How much of a clean, modern hall.
5	WIDTH	The stereo width, from mono to wider than the piano.
6	VOLUME	The final level.
7	PEDALS	Indicators for SUSTAIN, SOSTENUTO and SOFT.
8	Keys	C2 to C7, 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:

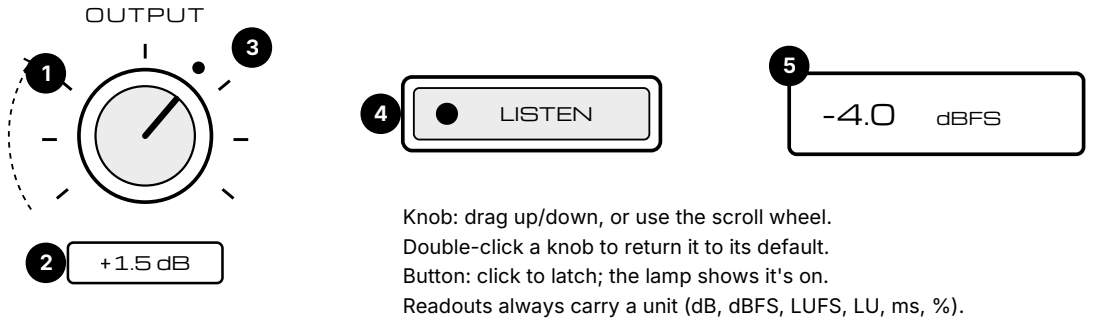


FIGURE 4 The parts you'll find on every VEIRA panel (the labels are examples).

- 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 Clean Piano's face the parts look a little different from the drawing above:

- **Knobs show their value under them** (0 %, 28 %, -4.2 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 sound buttons** fill in charcoal when chosen.
- **The pedal indicators** fill while a pedal is down; SUSTAIN fills part way for half pedal.
- **Resize the window:** drag its bottom-right corner. It scales from 60 % to 160 % of its full size (1200 × 552 points) and opens at 100 %. Your DAW saves the size with the session.

How it makes its sound

A piano note is the sum of many pure tones, called partials, each starting at its own level and dying away at its own speed. VEIRA Clean Piano builds every note that way when its key is struck: a bank of up to 64 decaying sine partials. This is modal synthesis. Partials that have died away are dropped, so a ringing note costs less and less.

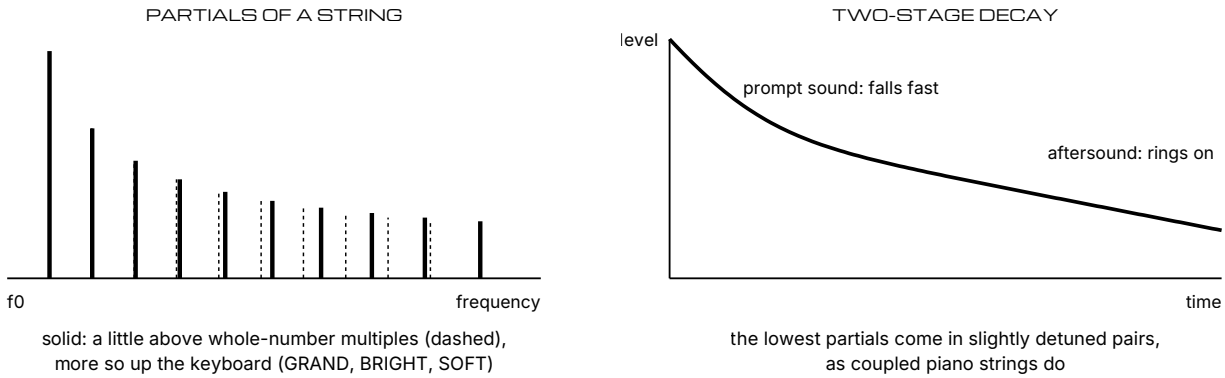


FIGURE 5 What makes it sound like a piano.

- **Stretched partials.** On a real string the partials sit a little above whole-number multiples of the note, more so towards the ends of the keyboard, because the string is stiff. GRAND, BRIGHT and SOFT follow that rule, and the first partial of every key is in equal temperament.
- **The hammer and the soundboard.** Each partial is shaped by where the hammer strikes, by the hammer's felt and by the soundboard's low end. Velocity covers 34 dB from the softest note to the loudest on a smooth curve, and louder notes are brighter.
- **Two-stage decay.** The lowest partials come in slightly detuned pairs: a fast "prompt" sound and a slow "aftersound", the way coupled piano strings decay.

The four sounds

Sound	What it is	What it does
GRAND	A polished concert grand	The tightest unison and the smoothest hammer: wide, even and polished.
BRIGHT	A brighter modern grand	Harder hammers, a little more stretch and a gentle presence around 3.4 kHz: it sits on top of a band.
ELECTRIC	A clean electric tine piano	A near-sine note with a two-stage decay; hard notes add harmonics that bark and then soften as the note rings, with the tine's ping on the attack.
SOFT	A felt piano	Felt hammers and a shorter, darker ring.

The controls

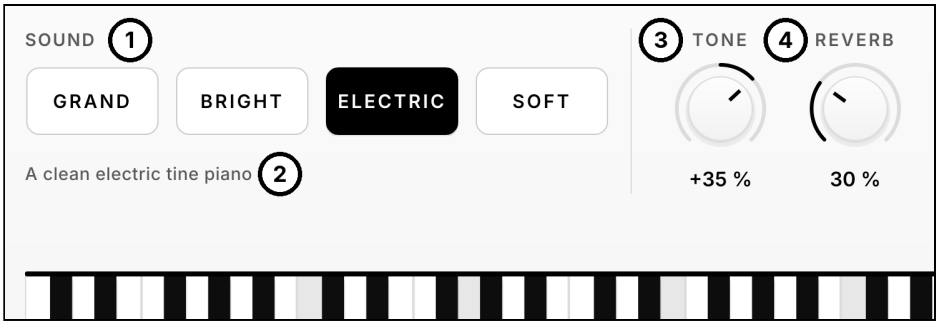


FIGURE 6 *Electric* ▸ *Bell Electric*: 1 the four sound buttons, ELECTRIC chosen, 2 the line that says what it is, 3 TONE at +35 % and 4 REVERB at 30 %.

SOUND

The four buttons pick the sound (GRAND by default); the chosen one fills in charcoal, and the line under them describes it. A change of sound applies to the next notes, so notes already ringing are not cut off.

The four knobs

Knob	Range	Default	What it does
TONE	−100 to +100 %	0 %	A tilt from darker (left) to brighter (right): a 3.5 kHz high shelf of ±8 dB and a 200 Hz low shelf of ∓3 dB. At 0 % it is switched out.
REVERB	0 to 100 %	20 %	How much of a clean, modern hall.
WIDTH	0 to 150 %	100 %	The stereo width (mid/side). The reverb is narrowed or widened with it.
VOLUME	−36 to +6 dB	−4 dB	The final level.

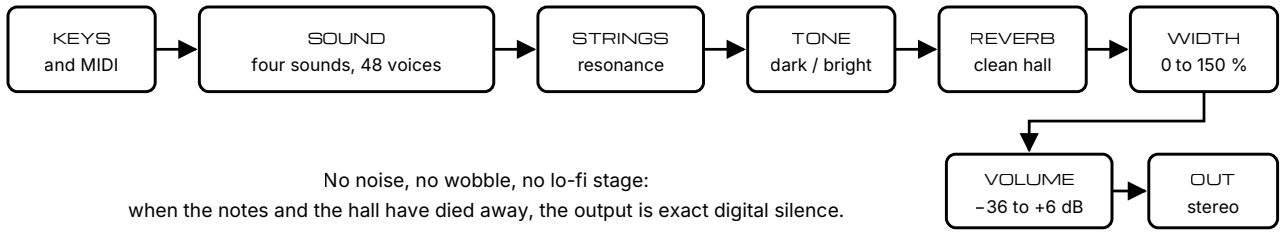
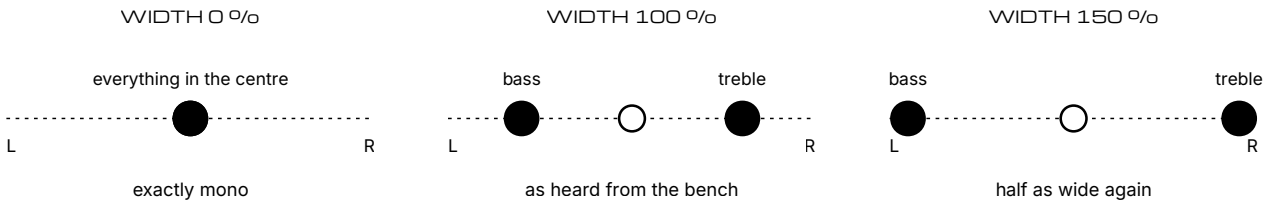


FIGURE 7 From key to output.

REVERB: a clean hall

Its send is high-passed at 160 Hz and softened above 9 kHz, with a 22 ms pre-delay. It decays over about 2.3 s in the lows and 0.9 s in the highs, and it has no modulation, so nothing wobbles. When the tail has died away it is cleared to exact silence.

WIDTH and the stereo image

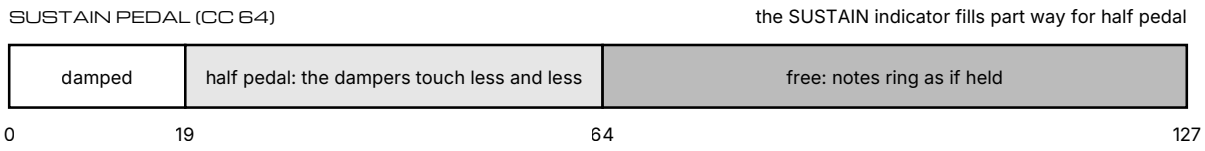


The piano is placed as a recorded grand heard from the bench: the bass left, the treble right. The reverb follows WIDTH.

FIGURE 8 WIDTH.

The piano is placed as a recorded grand heard from the bench: the bass on the left, the treble on the right, and each partial a little apart from its neighbours, so chords open across the speakers. It stays mono-compatible: a wide chord loses under 0.5 dB summed to mono. WIDTH at 0 % is exactly mono (*Grand ▸ Mono Grand*), for a busy mix or a mono stage feed.

The pedals 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 darker.

FIGURE 9 The sustain pedal.

The pedals come in as MIDI from your keyboard, as on a real piano; they are not parameters. The PEDALS indicators show 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 80 ms, so it never piles up or clicks. With the pedal down, the other strings ring along gently.
- 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 darker (una corda).
- **The top 20 keys** of GRAND, BRIGHT and SOFT have no dampers, as on a real piano, so they ring on after you let go.

The keys on the face run from C2 to C7, 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 88 keys and beyond; the face shows five octaves.

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).

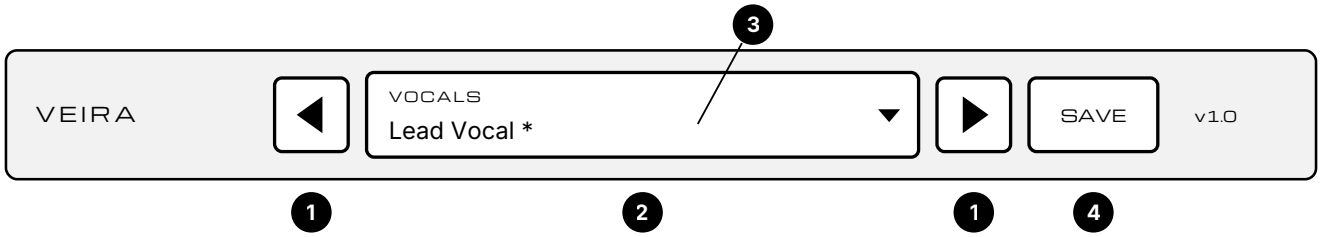
Voices: 48. A 49th note takes the quietest released note (or else the quietest held one) and fades it out over 5 ms, so nothing clicks.

Presets

VEIRA Clean Piano comes with **21 factory presets** in 6 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 Clean Piano 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 Clean Piano/<Folder>/
Windows	%APPDATA%\VEIRA\VEIRA Clean Piano\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
Grand	Concert Grand, Studio Grand, Warm Grand, Mono Grand
Bright	Modern Pop, Crisp Ballad, Band Piano, Wide Bright
Electric	Clean Electric, Soft Electric, Bell Electric, Dry Electric
Soft	Felt Piano, Night Felt, Clear Felt, Wide Felt
Ambient	Hall Grand, Felt Space, Glass Electric, Distant Bright

> **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, so you can switch between them while you play. Hover the preset name to read its note.

Recipes

A concert grand

1. Load *Default* ▸ *Init* (GRAND, a little hall, full width).
2. Raise REVERB to about 28 % and WIDTH to about 110 % (*Grand* ▸ *Concert Grand*).
3. Play with the sustain pedal, lifting it as the chord changes.

A piano for a busy mix

1. Press BRIGHT and turn TONE up to about +30 %.
2. Lower REVERB to about 8 % and WIDTH to about 70 % (*Bright* ▸ *Band Piano*).
3. For a mono stage feed, take WIDTH to 0 %.

Neo-soul electric

1. Press ELECTRIC and turn TONE down to about −30 %.
2. Set REVERB to about 20 %, and play softly for a mellow tone, harder for the bark (*Electric* ▸ *Soft Electric*).

A quiet felt piano

1. Press SOFT, turn TONE down a little and set REVERB to about 25 %.
2. Keep the pedal down and play slowly (*Soft* ▸ *Night Felt*).

Specifications

Type	Modern piano (instrument), synthesized: no recordings; MIDI in, stereo or mono out, no audio input
Synthesis	Up to 64 decaying sine partials per note (modal synthesis), stretched like a stiff string, two-stage decay; shares VEIRA Digital Piano's engine, re-voiced clean
Sounds	GRAND, BRIGHT, ELECTRIC, SOFT
Velocity	34 dB from softest to loudest on a smooth curve; louder is brighter
Controls	TONE (±8 dB at 3.5 kHz, ∓3 dB at 200 Hz), REVERB (clean hall, about 2.3 s in the lows), WIDTH 0 to 150 %, VOLUME −36 to +6 dB
Stereo	The bass left, the treble right, as from the bench; under 0.5 dB lost summed to mono
Clean	No noise, no wobble; exact digital silence once the notes and the hall have died away
Pedals	Sustain (CC 64, half pedal), sostenuto (CC 66), soft (CC 67); undamped top 20 keys
MIDI	Notes, velocity, pitch bend ±2 st, CC 64, CC 66, CC 67, CC 120, CC 123
Voices	48
Keys	C2 to C7 on the face; the engine plays 88 keys and beyond
Parameters	5 (the sound and four knobs), all automatable; the pedals and pitch bend are MIDI
Latency	None
CPU	3 to 7 % of one core with 48 voices struck at once and pedalled, TONE, REVERB and WIDTH on (48 kHz)
Presets	21 factory presets in 6 folders, plus your own
Window	1200 × 552 points; resizable from 60 % to 160 %, opens at 100 %, saved with the session
Formats	VST3, Audio Units (instrument), standalone; AAX once signed
Plugin ID	Manufacturer Veir, plugin Vcpn

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*.

I don't see VEIRA Clean Piano 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 Clean Piano or Digital Piano? Both share the same engine. Choose VEIRA Clean Piano for a clean, modern, hi-fi piano with four knobs; choose VEIRA Digital Piano for a worn 1980s stage piano with tremolo, chorus, a plate and AGE.

My sustain pedal does nothing, or works backwards. Check that your keyboard sends CC 64 and that the track receives it; the SUSTAIN indicator 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.

The piano sounds narrow, or mono. WIDTH is low; 100 % is the piano as heard from the bench.

The high notes keep ringing after I let go. The top 20 keys of GRAND, BRIGHT and SOFT have no dampers, as on a real piano.

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 Clean Piano · User Manual · Version 0.1.0

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

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