VEIRA

DIGITAL PIANO

VEIRA Digital Piano

User Manual

A vintage 1980s-style digital piano that has played a lot of gigs: four tones, real pedals, tremolo, chorus, a warm plate and AGE, synthesized note by note.



Contents

Welcome 3
Getting started 4
What you need 4
Install with VEIRA Manager 4
Activation and the licence 5
Formats and where the files go 5
The panel at a glance 6
Using the controls 6
How it makes its sound 8
The four tones 8
MASTER, VOICE and PIANO 9
MASTER 9
VOICE 9
PIANO 9
The effects 11
TREMOLO 11
CHORUS 12
REVERB 12
LO-FI: AGE 12
The pedals and the keys 13
Presets 14
The preset browser 14
The preset menu 14
Saving your own presets 14
Presets in your DAW 15
The factory folders 15
Recipes 16
A ballad grand 16
The classic stereo tine sound 16
A worn tape piano for beats 16
An even piano for a busy mix 16
Specifications 17
Troubleshooting and questions 18

Welcome

Thank you for choosing **VEIRA Digital Piano**. It is a vintage 1980s-style digital piano that has played a lot of gigs: four tones on four buttons, a few simple effects, and pedals that behave the way a pianist expects. The panel is an original design, worn on purpose, with scratches, rubbed paint, a cigarette burn, a peeled-off sticker and yellowed keys; the wear is kept clear of every word, so all the lettering stays readable.

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, so it has the character of a vintage digital piano rather than a recording of any one instrument.

What makes it different

- **Four tones:** GRAND (a concert grand), STAGE (a bright stage piano), TINE (an electric tine piano) and FELT (a soft felt piano).
- **Real pedals:** sustain with half pedal, sostenuto and soft, and strings that ring along while the dampers are up.
- **The effects of the old instruments:** tremolo with a stereo mode, a bucket-brigade-style chorus and a warm plate reverb.
- AGE wears the sound out like an old sound chip; at 0 % it is exactly clean.
- **48 voices**, no latency, and the same render at any buffer size.
- **32 factory presets** in 7 folders, each with a note, levelled on the same pedalled phrase.

How this manual is organised. *Getting started* installs and activates the plugin. *The panel at a glance* names its sections, and *How it makes its sound* explains the synthesis and the four tones. Then come *MASTER, VOICE and PIANO*, *The effects*, and *The pedals and the keys*. *Presets*, *Recipes*, *Specifications* and *Troubleshooting* close the manual.

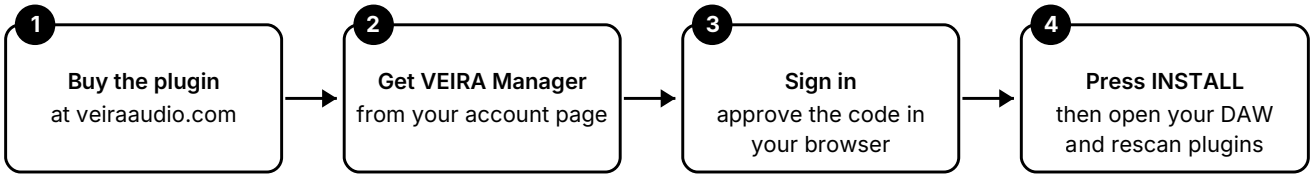
Getting started

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.

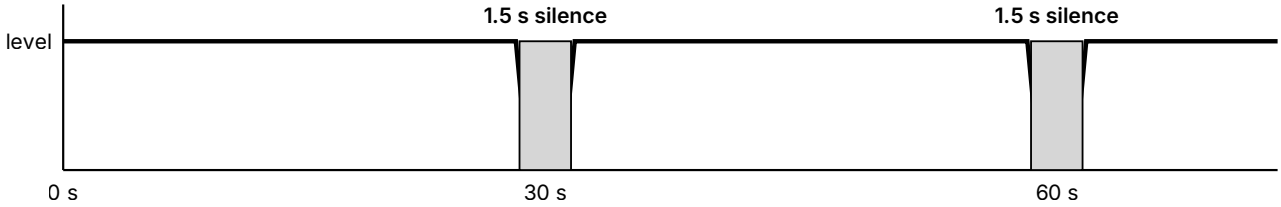
1. **Buy** VEIRA Digital Piano at **veiraaudio.com**. It's a one-time purchase: you own it for good, with free updates.
2. **Download VEIRA Manager** from your account page (or veiraaudio.com/manager) and install it.
3. **Sign in.** VEIRA Manager shows a short code and opens your browser; confirm the code there. Your password is never typed into the app.
4. Find VEIRA Digital 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 Digital Piano appears in your DAW under the manufacturer **VEIRA** (in Logic Pro: Audio Units ▸ VEIRA ▸ VEIRA Digital 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 Digital 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 Digital 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 Digital Piano on its own, with your audio interface's input and output, which is handy for trying presets without a DAW.

The panel at a glance



FIGURE 3 VEIRA Digital Piano playing *Tine* ▸ *Midnight Tines*: 1 the header with the preset browser, 2 MASTER, 3 VOICE, 4 PIANO, 5 TREMOLO, 6 CHORUS, 7 REVERB, 8 LO-FI, 9 PEDALS and 10 the keys.

	Section	What it does
1	Header	The preset browser, SAVE, the number of voices (48) and the version.
2	MASTER	VOLUME and TUNE.
3	VOICE	The red LED display and the four tone buttons.
4	PIANO	TOUCH, DECAY, RESONANCE and TONE.
5	TREMOLO	RATE, DEPTH and STEREO.
6	CHORUS	DEPTH and ON.
7	REVERB	How much warm plate.
8	LO-FI	AGE: the worn sound chip.
9	PEDALS	Lamps for SUSTAIN, SOSTENUTO and SOFT.
10	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:

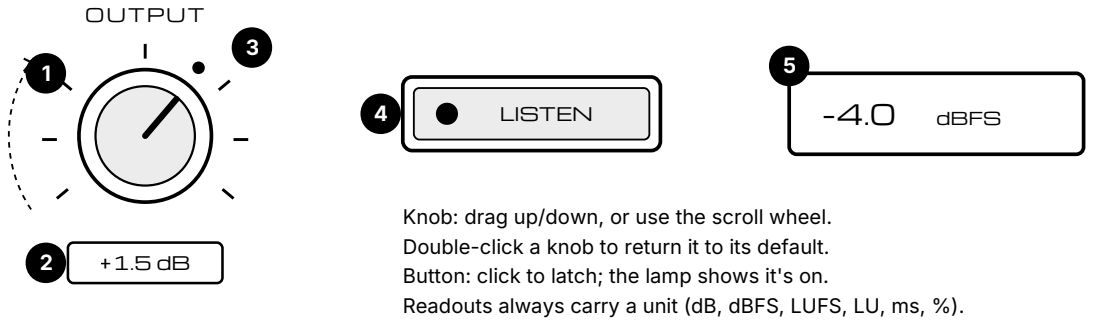


FIGURE 4 The parts you'll find on every VEIRA panel (the labels are examples).

- 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 Digital Piano's panel the parts look a little different from the drawing above:

- **Knobs show their value printed beneath them** (+1.8 dB, 3.00 Hz, 35 %). 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. While you turn a knob, the red display shows its name over its value for a moment.
- **Buttons** are square cream buttons with an LED above: the four tones, STEREO and the chorus's ON. The lit LED marks what is on.
- **Lamps:** the PEDALS lamps light while a pedal is down; SUSTAIN glows part way for half pedal.
- **Resize the window:** drag its bottom-right corner. It scales from 50 % to 150 % of its full size (1440 × 680 points) and opens at 80 %. 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 Digital Piano builds every note that way when its key is struck: a bank of up to 64 decaying sine partials, shaped by how hard you play. This is modal synthesis. Partials that have died away are dropped, so a ringing note costs less and less.

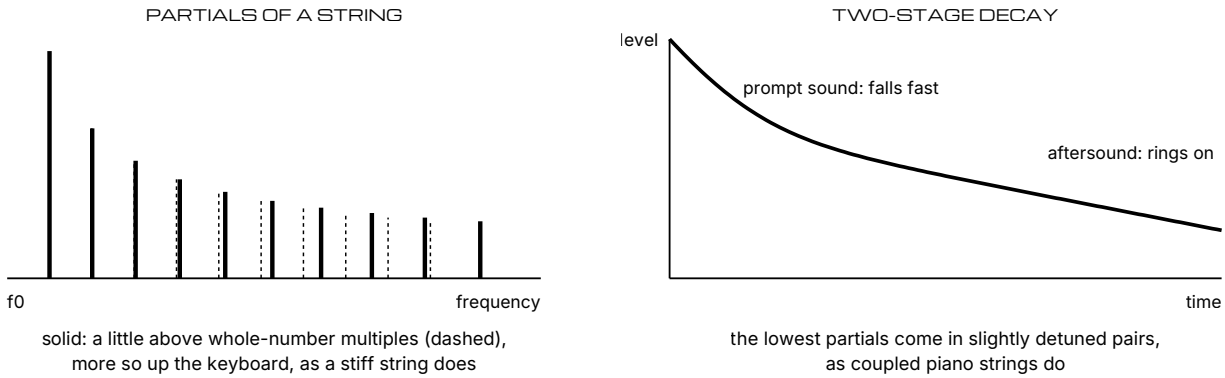


FIGURE 5 What makes it sound like a piano.

- **Stretched partials.** On a real string the partials sit a little above whole-number multiples of the note, more so in the bass and the treble, because the string is stiff. GRAND, STAGE and FELT 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 (softer notes are darker, louder notes brighter) and by the soundboard's low end. A hammer transient and a body knock sit on the attack.
- **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, with their gentle beating.

The four tones

Tone	What it is	What it does
GRAND	A concert grand	The full piano, for solo playing and ballads.
STAGE	A bright stage piano	Stiffer strings, brighter hammers and a pickup presence, and a shorter ring: it cuts through a band.
TINE	An electric tine piano	A near-sine fundamental 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.
FELT	A soft felt piano	Soft hammers with a felt thud and a shorter, darker ring.

MASTER, VOICE and PIANO



FIGURE 6 *Tine* ▸ *Midnight Tines*: 1 VOLUME, 2 TUNE, 3 the display, 4 the tone buttons, 5 TOUCH, 6 DECAY, 7 RESONANCE, 8 TONE.

MASTER

Control	Range	Default	What it does
VOLUME	−36 to +6 dB	−3 dB	The final level.
TUNE	−100 to +100 cents	0 cents	The tuning; at 0, A4 is 440 Hz.

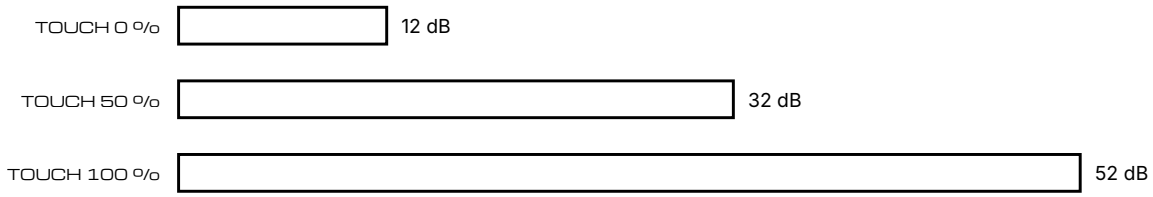
VOICE

The red LED display shows the tone, numbered as on the old instruments (VOICE 3 is TINE), or, for a moment, the control you are turning. The four buttons under it pick the tone (GRAND by default), and the LED over the chosen one lights. A change of tone applies to the next notes, so notes already ringing are not cut off.

PIANO

Control	Range	Default	What it does
TOUCH	0 to 100 %	50 %	How much velocity changes the level.
DECAY	25 to 200 %	100 %	How long notes ring while held or pedalled; 100 % is natural.

Control	Range	Default	What it does
RESONANCE	0 to 100 %	35 %	Sympathetic resonance: with the sustain pedal down, the other strings ring along.
TONE	−100 to +100 %	0 %	A tilt from darker (down) to brighter (up).



From the softest note to the loudest. Harder notes are always brighter too, whatever TOUCH says.

FIGURE 7 TOUCH: how far apart the softest and the loudest notes are.

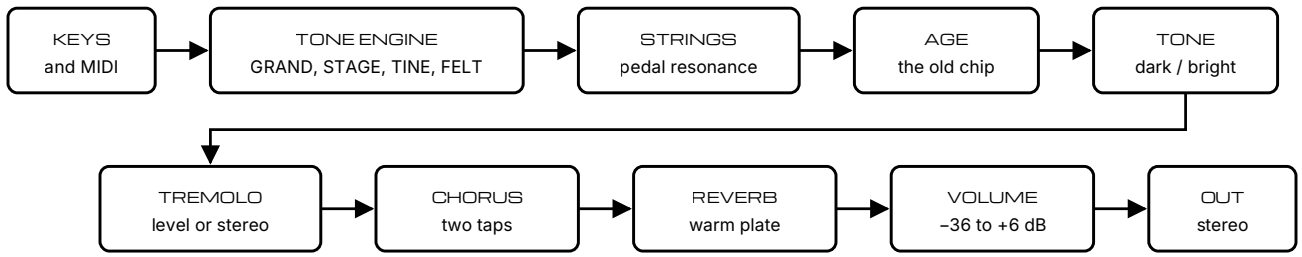
TONE uses a 3 kHz high shelf of ±9 dB and a 220 Hz low shelf of ∓3.5 dB, so turning it up brightens the top and thins the bottom a little, and turning it down does the opposite. RESONANCE is eight tuned resonators (G1 to D6) that are fed and ring while the dampers are up, so it is heard only with the sustain pedal down (*Grand ▸ Intimate Grand* has plenty).

The effects



FIGURE 8 1 TREMOLO, 2 CHORUS, 3 REVERB, 4 LO-FI and 5 the PEDALS lamps, with the sustain pedal down.

The effects come in the order of the old instruments: AGE, TONE, TREMOLO, CHORUS, REVERB, then VOLUME.



Every note is built from sine partials as the key is struck: no recordings. The effects follow in the order of the old instruments.

FIGURE 9 From key to output.

TREMOLO

Control	Range	Default	What it does
RATE	0.5 to 12 Hz	4.5 Hz	How fast it moves.
DEPTH	0 to 100 %	0 %	How far it moves; 0 % is off.

Control	Range	Default	What it does
STEREO	on, off	on	On: it pans the sound from side to side at constant power, the classic stereo vibrato of tine pianos. Off: it moves the level.

CHORUS

Control	Range	Default	What it does
ON	on, off	off	Switches the chorus in.
DEPTH	0 to 100 %	50 %	How far it sweeps.

A bucket-brigade-style stereo chorus: two taps swept in opposite directions and darkened, as on the old analog chorus chips. It is the soft-rock tine sound (*Tine* ▸ *Chorus Tines*) and the shimmer of 1980s ballads (*Stage* ▸ *Eighties Power Ballad*).

REVERB

REVERB (0 to 100 %, default 18 %) sets how much of a warm plate, about 2.5 s long, you hear. Turn it to 0 % for a dry piano to put your own room on (*Grand* ▸ *Studio Grand Dry*).

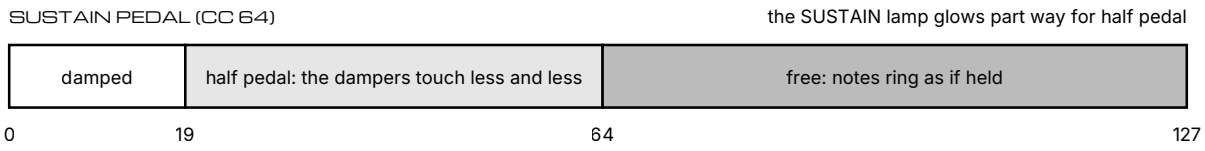
LO-FI: AGE

AGE (0 to 100 %, default 0 %) wears the sound out like an old sound chip:

As AGE rises	From	To
Sample rate	32 kHz	13 kHz, with its aliasing
Bits	16	7
Pitch wobble	none	about ±7 cents, slow, with some flutter
Noise	none	riding on the signal

At 0 % it is exactly clean, as the panel says: nothing is added, and the stage is switched out. The *Lo-Fi* folder is built on it.

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 10 The sustain pedal.

The pedals come in as MIDI from your keyboard, as on a real piano; they are not parameters. The PEDALS lamps 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. When you lift the pedal, the dampers fall on the strings with a soft damper noise. 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.
- SOSTENUTO **(CC 66)** holds only the notes whose keys are down when you press it; notes played afterwards are damped as usual.
- SOFT **(CC 67)** plays the following notes 3.5 dB softer and darker (una corda).
- **The top 20 keys** of GRAND, STAGE and FELT have no dampers, as on a real piano, so they ring on after you let go.

The keys on the panel 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 panel 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).

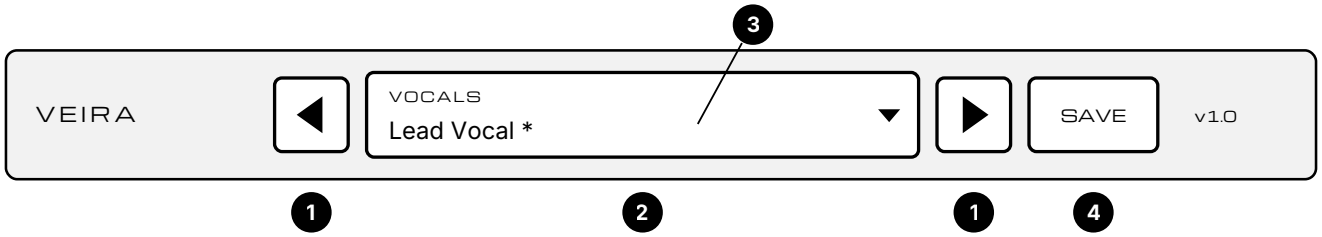
Voices: 48. A 49th note takes the quietest released note (or else the quietest held one) and fades it out over 5 ms, so nothing clicks.

Presets

VEIRA Digital Piano comes with **32 factory presets** in 7 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 11 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 Digital 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 Digital Piano/<Folder>/
Windows	%APPDATA%\VEIRA\VEIRA Digital 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, Bright Pop Grand, Intimate Grand, Ballad Hall, Studio Grand Dry
Stage	Stage Bright, Eighties Power Ballad, Rock Stage Piano, Chorus Stage, Club Stage
Tine	Warm Tines, Stereo Trem Tines, Bark And Bite, Chorus Tines, Midnight Tines, Glass Tines
Felt	Felt Diary, Muted Upright, Lullaby Felt, Late Night Felt, Paper Hammers
Lo-Fi	Cassette Grand, Worn ROM Stage, Thrift Store Keys, Dusty Tines, Old Tape Felt
Ambient	Shimmer Room, Distant Plate, Pedal Haze, Slow Bloom Tines, Night Felt Space

> **Levelled on the same phrase.** Each preset's VOLUME was set so a pedalled ballad phrase plays at −16 LUFS, or as loud as peaks under −3 dBFS allow, so you can switch between them while you play. Hover the preset name to read its note.

Recipes

A ballad grand

1. Load *Default* ▸ *Init* ([GRAND], a little plate and the string resonance).
2. Raise [RESONANCE] to about 50 % and [REVERB] to about 35 %.
3. Play with the sustain pedal, lifting it as the chord changes.

The classic stereo tine sound

1. Press [TINE].
2. Set [TREMOLO] [DEPTH] to about 30 % with [STEREO] on, and [RATE] to about 3 Hz.
3. Turn [CHORUS] on, and play harder for the bark.

A worn tape piano for beats

1. Press [FELT] and turn [TONE] down a little.
2. Raise [AGE] to taste: a little for a warble, more for a grainy, noisy chip.
3. Add [REVERB] for space (*Lo-Fi* ▸ *Old Tape Felt*).

An even piano for a busy mix

1. Press [STAGE] and lower [TOUCH] towards 0 %: every note plays nearly as loud.
2. Turn [TONE] up to cut through, and keep [REVERB] low (*Stage* ▸ *Rock Stage Piano*).

Specifications

Type	Vintage 1980s-style digital 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, hammer and body transients
Tones	GRAND, STAGE, TINE, FELT
Piano	TOUCH (12 to 52 dB of velocity range), DECAY 25 to 200 %, RESONANCE (eight tuned resonators with the pedal), TONE (±9 dB at 3 kHz, ∓3.5 dB at 220 Hz)
Effects	AGE (32 to 13 kHz, 16 to 7 bits, wobble, noise; 0 % clean), TREMOLO 0.5 to 12 Hz (level or stereo), stereo CHORUS, plate REVERB (about 2.5 s)
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 panel; the engine plays 88 keys and beyond
Master	VOLUME −36 to +6 dB, TUNE ±100 cents (A4 = 440 Hz at 0)
Parameters	14 (11 knobs, the tone and 2 buttons), 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, all effects on (48 kHz)
Presets	32 factory presets in 7 folders, plus your own
Window	1440 × 680 points; resizable from 50 % to 150 %, opens at 80 %, saved with the session
Formats	VST3, Audio Units (instrument), standalone; AAX once signed
Plugin ID	Manufacturer Veir, plugin Vdpn

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 Digital 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.

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

RESONANCE **does nothing.** It is heard only with the sustain pedal down, when the dampers are up.

The tremolo or chorus does nothing. TREMOLO DEPTH is at 0 %, or the chorus's ON is off.

It sounds noisy or wobbly. AGE is above 0 %. Turn it to 0 % for an exactly clean sound.

The high notes keep ringing after I let go. The top 20 keys of GRAND, STAGE and FELT 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 Digital Piano · User Manual · Version 0.1.0

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

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