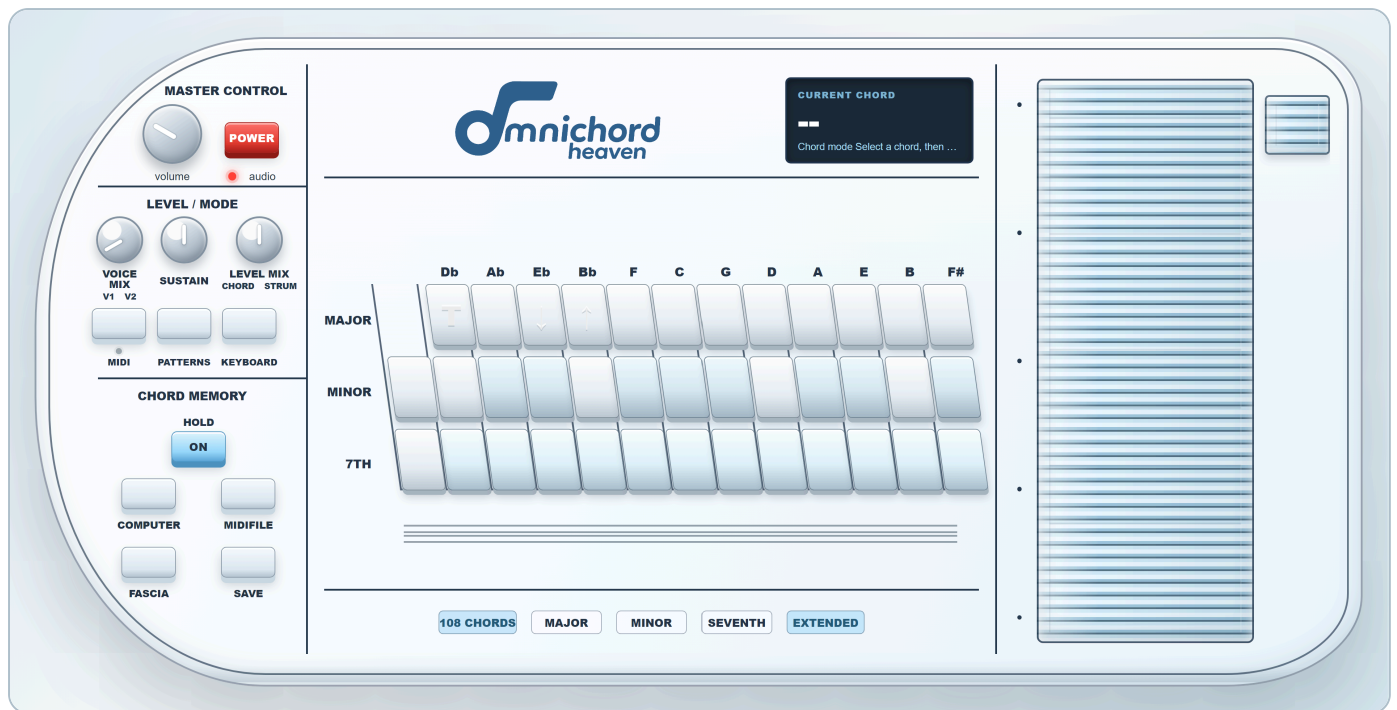


OH-84 FULL USER GUIDE

Omnichord Heaven OH-84 browser instrument

Full / Extended build

Draft 1 - 27 June 2026



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1. Quick Start

1. Open the OH-84 page in a modern browser.
2. Press **POWER**. This enables the browser audio engine.
3. Select a chord from the three chord rows.
4. Stroke or click the strumplate on the right.
5. Open **PATTERNS**, choose a rhythm, and press **START** if you want drums.
6. Use the **Volume**, **Voice Mix**, **Sustain**, and **Level Mix** knobs to set the playing feel.

If the instrument shows a message asking for audio to be enabled, press **POWER** first. Browser audio must usually be started by a direct user action.

2. Main Panel Tour

The OH-84 is arranged like a self-contained electronic instrument.

- The left panel contains power, level controls, mode buttons, chord memory, MIDI, fascia, and save options.
- The centre panel contains the chord buttons, current chord display, and chord quality controls.
- The right panel contains the wide strumplate and the small instant-off pad.

The **Current Chord** display gives short status messages as you work. It shows the current chord, selected mode, file-player status, transpose state, or short confirmation messages.

Most pop-out menus open over the centre of the instrument and use the same raised button style as the front panel. Opening one major menu normally closes the other major menus so the instrument stays tidy.

3. Audio And Volume Controls

POWER

Press **POWER** to enable audio. The small audio light shows that the instrument has been started.

MASTER VOLUME

The large **Volume** knob controls the overall output level. The factory setting is deliberately conservative so the strumplate, chord, bass, and rhythm sections have headroom.

VOICE MIX

Voice Mix blends the two internal strumplate voices:

- **V1** is the main OH-84 style voice.
- **V2** adds the second/modulated strum voice.

SUSTAIN

Sustain controls how long strumplate notes continue after being played.

LEVEL MIX

Level Mix balances the held chord/accompaniment layer against the strumplate layer:

- Turn toward **Chord** for more chord and bass body.
- Turn toward **Strum** for a more strumplate-led sound.

KNOB OPERATION

Use a mouse, touch, or pen to drag a knob up and down. When a knob has keyboard focus, the arrow keys adjust it, **Home** sets minimum, and **End** sets maximum. Double-clicking most knobs returns them to their normal centre setting; the master volume returns to its factory level.

4. Chord Buttons And The 108-Chord System

The chord section has twelve roots:

Db, **Ab**, **Eb**, **Bb**, **F**, **C**, **G**, **D**, **A**, **E**, **B**, **F#**

The visible rows are:

- **Major**
- **Minor**
- **7th**

BASIC CHORDS

Press a single button in one row to select:

- Major
- Minor
- Seventh

For example, press **C** in the Major row for C major, or **A** in the Minor row for A minor.

COMBINATION CHORDS

The OH-84 can read combinations of rows to make additional chord qualities:

- Major + 7th = Major 7th
- Minor + 7th = Minor 7th
- Major + Minor = Diminished
- Major + Minor + 7th = Augmented

These combination chords work from the same twelve roots.

EXTENDED BUTTON

The **Extended** button cycles through extra chord modes:

1. **sus4**
2. **add9**
3. off

When an extended mode is active, select any root button to play that root as the current extended quality. The standard 84 chords plus the extended qualities make the full 108-chord set.

Extended mode is available in chord mode. It is automatically cleared when entering keyboard mode.

TRANPOSE BUTTONS

Three special symbols appear in the Major row:

- **T** arms or closes transpose.
- Down arrow lowers transpose by one semitone.
- Up arrow raises transpose by one semitone.

Transpose can move the instrument from **T-12** to **T+12**. The display shows the current transpose value while it is armed. Chords, bass, and MIDI accompaniment follow the global transpose.

Entering keyboard mode resets the global transpose to normal.

5. Strumplate Playing

The wide striped plate on the right is the OH-84 strumplate. Select a chord, then stroke, drag, or click across the plate to play the strummed notes.

The strumplate can also be played from the computer keyboard:

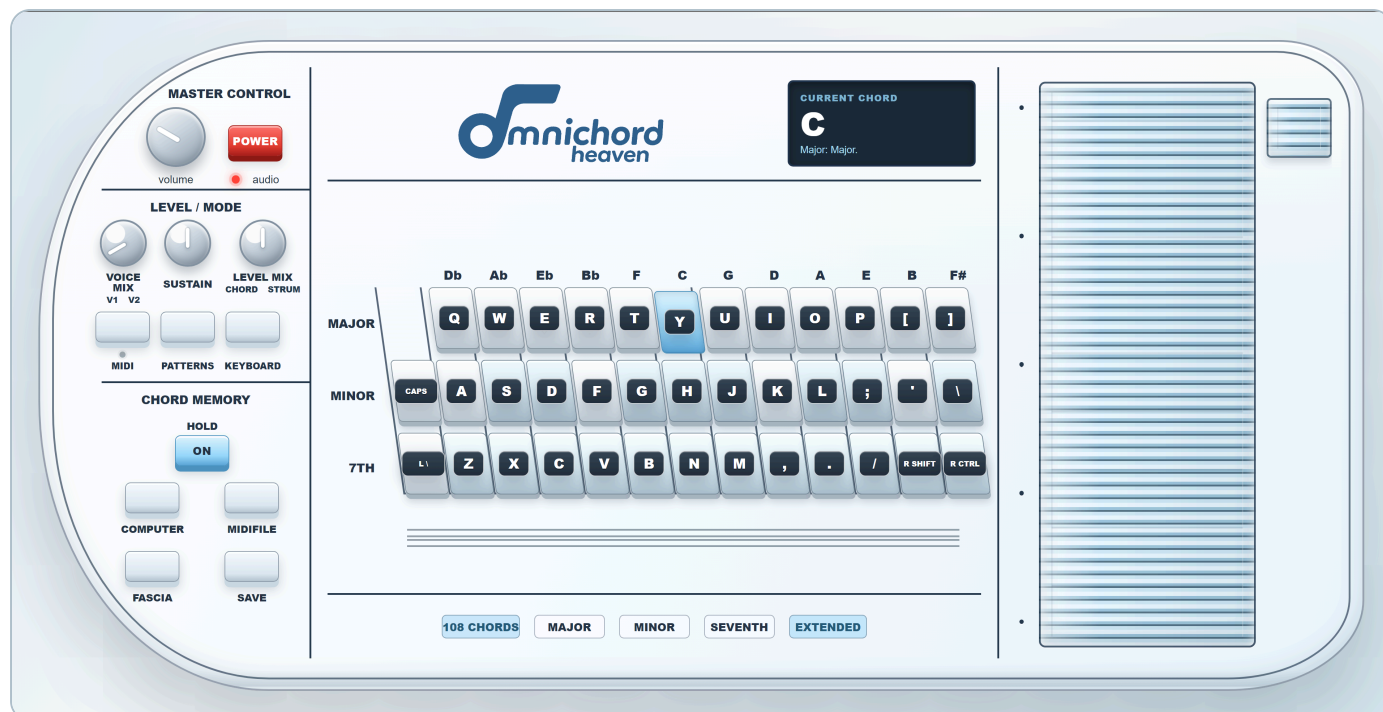
` 1 2 3 4 5 6 7 8 9 0 - =

The small pad above and to the right of the strumplate is **Instant Off**. Press it to stop the held chord, bass, keyboard notes, strum voices, and MIDI notes.

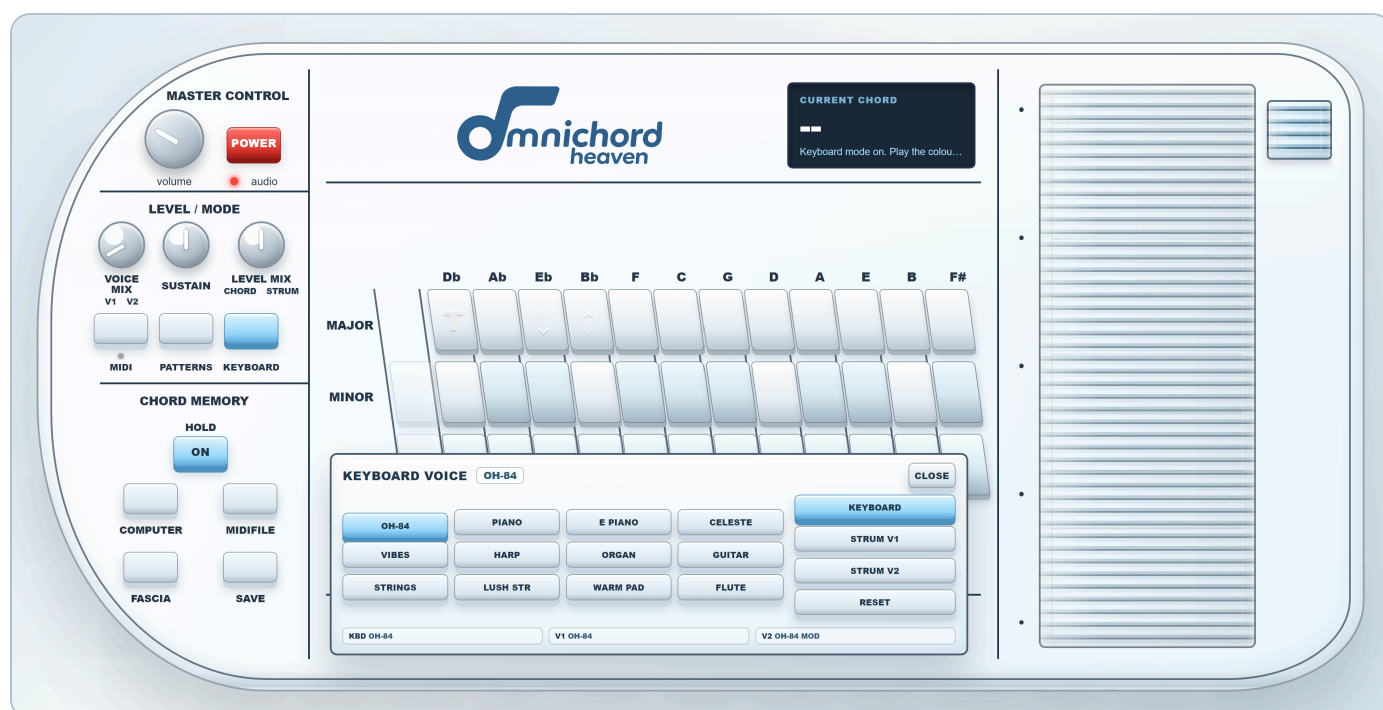
6. Keyboard Mode And Visual Keymap

Press **KEYBOARD** to turn the chord-button area into a note keyboard. In this mode the coloured chord buttons play individual notes instead of selecting chords. The strumplate is disabled while keyboard mode is active.

When keyboard mode is switched on, the **Keyboard Voice** menu opens.



KEYBOARD VOICE MENU



The available voices are:

- OH-84
- Piano
- E Piano
- Celeste
- Vibes
- Harp
- Organ
- Guitar
- Strings
- Lush Str
- Warm Pad
- Flute

Use the assignment buttons to decide where the selected voice goes:

-
-
-

Press in the voice menu to restore the default voice assignments.

VISUAL KEYMAP

The visual keymap shows the physical computer keys directly on the chord buttons. This is useful when playing without a touch screen.

To turn it on or off:

1. Press .
2. Press .

The overlay is only a guide; it does not change the sound or playing mode. The setting is included when saving all OH-84 settings.

7. Chord Memory And Chord Computer

The chord computer stores a sequence of up to 128 chords.



RECORDING A CHORD SEQUENCE

1. Press **COMPUTER**.
2. Press **REC**.
3. Play the chords you want to store.
4. Press **STOP** to finish recording.

The counter shows how many steps are stored.

PLAYING A SEQUENCE

Press **PLAYBACK ENTER** to step through the stored chords. Each press advances to the next stored chord.

Transport buttons:

- **PREV** plays the previous stored chord.
- **REPEAT** repeats the current stored chord.
- **DEL** deletes the last stored chord.
- **CLR** clears the whole memory.

Chord memory is included in the full settings save.

8. Rhythm Patterns

Press **PATTERNS** to open the rhythm panel.



The OH-84 has twelve pattern slots:

- Rock 1
- Rock 2
- Disco
- Latin
- Country
- User 1
- March
- Tango
- Blues
- Swing
- Waltz
- User 2

The ten named patterns are editable in this build. **User 1** and **User 2** are also available for custom patterns. Resetting a pattern restores its factory version, and a full factory reset restores the complete factory rhythm set.

STARTING AND STOPPING

Press **START** to begin the selected rhythm. While playing, the button changes to **STOP**.

If auto accompaniment is on, selecting a chord can also start the rhythm with that chord.

RHYTHM TEMPO AND VOLUME

Use the **Tempo** and **Volume** knobs in the rhythm panel. Tempo ranges from slow practice tempos to faster accompaniment tempos. Some factory patterns carry their own multiplier where needed for the intended feel.

CHORD AND BASS BUTTONS

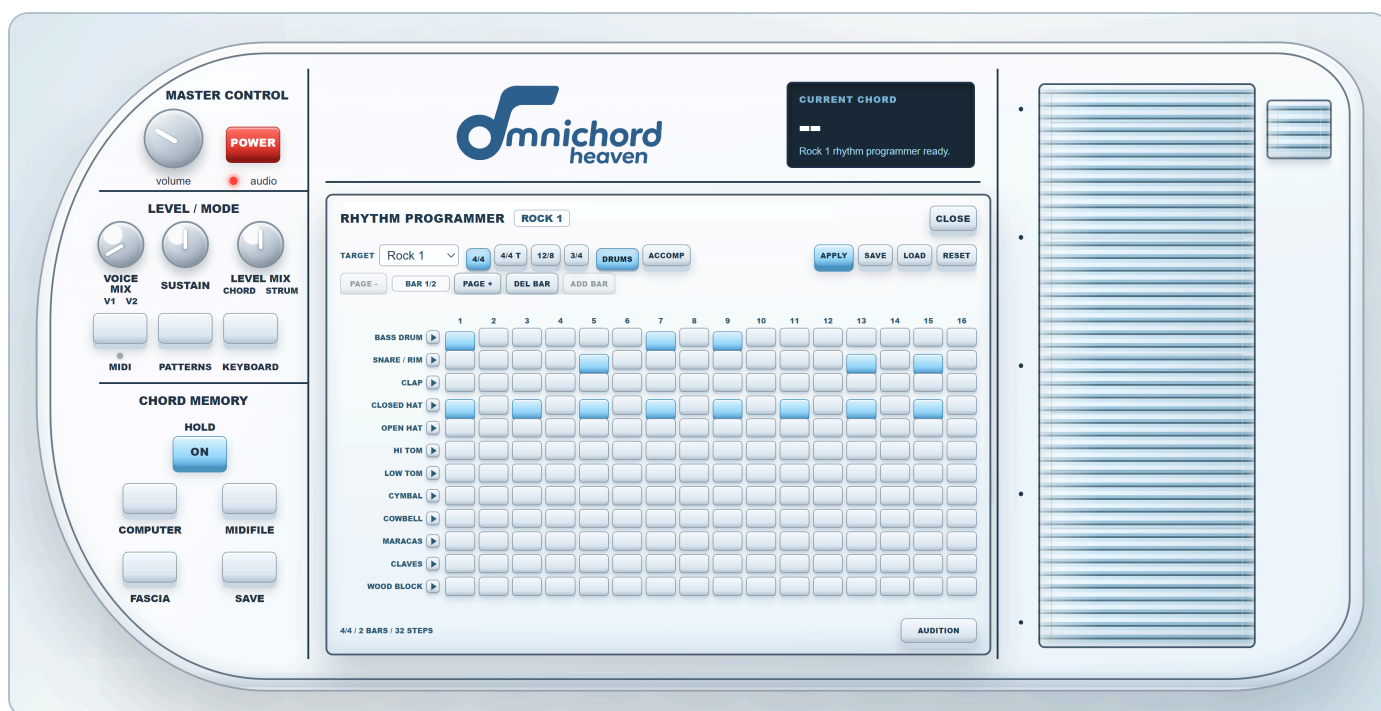
The rhythm panel includes two accompaniment controls:

- **CHORD ONLY** changes whether the rhythm uses the programmed chord/accompaniment layer.
- **AUTO BASS** controls whether programmed bass notes are included.

The status display confirms whether auto accompaniment or chord-only mode is active.

9. Rhythm Programmer

Press **PROGRAM** from the rhythm panel to open the rhythm programmer.



TARGET

The **TARGET** selector chooses which pattern slot you are editing. You can edit the named patterns as well as **User 1** and **User 2**.

METER

Choose one of the meter buttons:

- **4/4**
- **4/4 T**

- **12/8**
- **3/4**

BARS

Patterns can be one or two bars long.

- **ADD BAR** adds a second bar.
- **DEL BAR** removes the second bar.
- **PAGE -** and **PAGE +** move between bars.
- The readout shows the current bar and total step count.

DRUM VIEW

In **DRUMS** view, each row is a drum voice and each column is a step. Press a step button to turn that drum on or off.

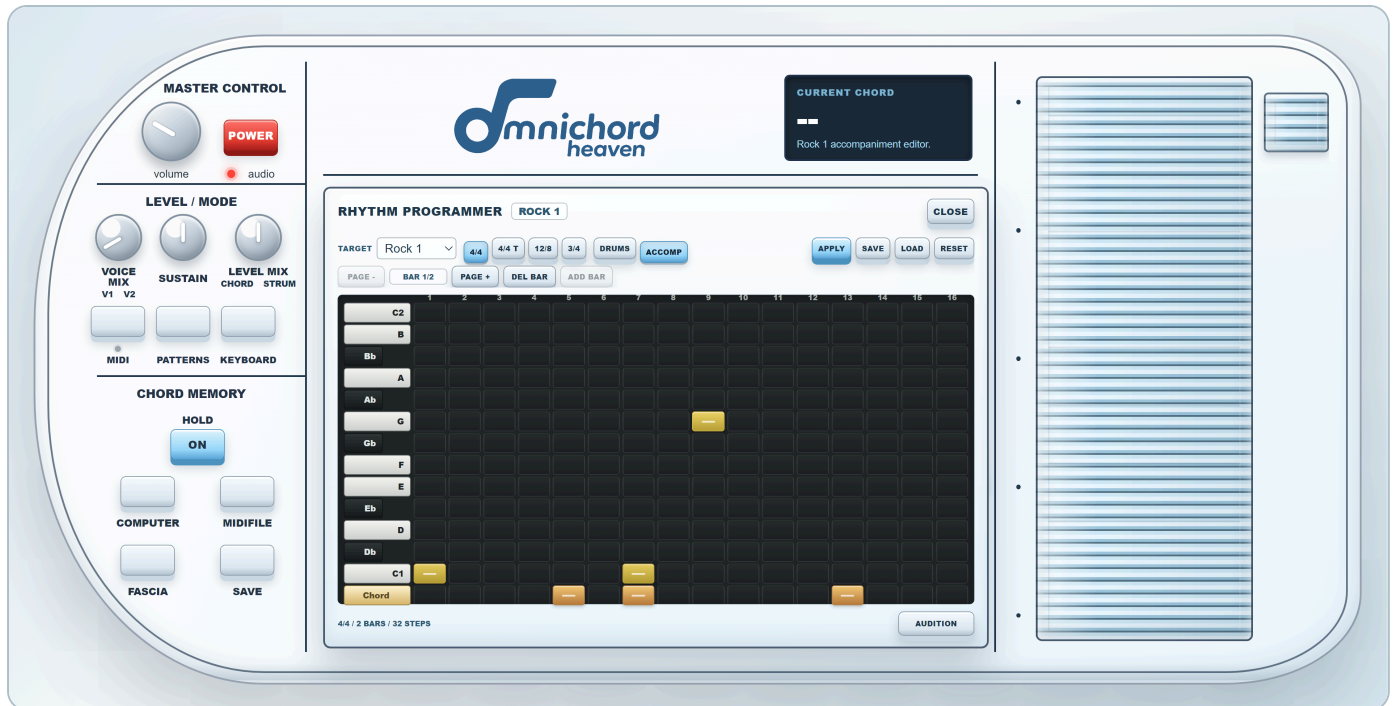
Drum voices:

- Bass Drum
- Snare / Rim
- Clap
- Closed Hat
- Open Hat
- Hi Tom
- Low Tom
- Cymbal
- Cowbell
- Maracas
- Claves
- Wood Block

Each drum row has a small play button beside its name. Press it to preview that drum sound.

ACCOMPANIMENT VIEW

Press **ACCOMP** to edit bass and chord accompaniment.



The left side acts like a one-octave keyboard from **C1** to **C2**. Click a pitch row at a step to place a bass note at that moment. Click the same note again to remove it.

The bass notes are stored as musical intervals from the selected chord root. This means the pattern follows the chord quality. For example, a bass line programmed as root, third, fifth in C major becomes root, minor third, fifth when the player selects C minor.

The bottom **Chord** row places short chord stabs into the accompaniment pattern.

AUDITION

Press **AUDITION** to hear the current pattern loop in C major. Audition includes drums, programmed bass notes, and chord stabs. Press the button again, now labelled **STOP**, to stop the audition.

APPLY, SAVE, LOAD, RESET

- **APPLY** writes the programmer contents into the selected target pattern and selects it.
- **SAVE** exports the selected pattern as a single OH-84 rhythm JSON file.
- **LOAD** loads a rhythm JSON file into the programmer. Press **APPLY** after loading if you want to store it into the target pattern.
- **RESET** restores the selected target pattern to its factory state.

When the browser supports the file picker, **SAVE** lets you choose a file name and location. Otherwise the browser downloads the JSON file.

10. MIDI Output

Press **MIDI** to enable external MIDI output. The browser may ask for MIDI permission.

When a MIDI output is found, the MIDI light turns on. The OH-84 sends:

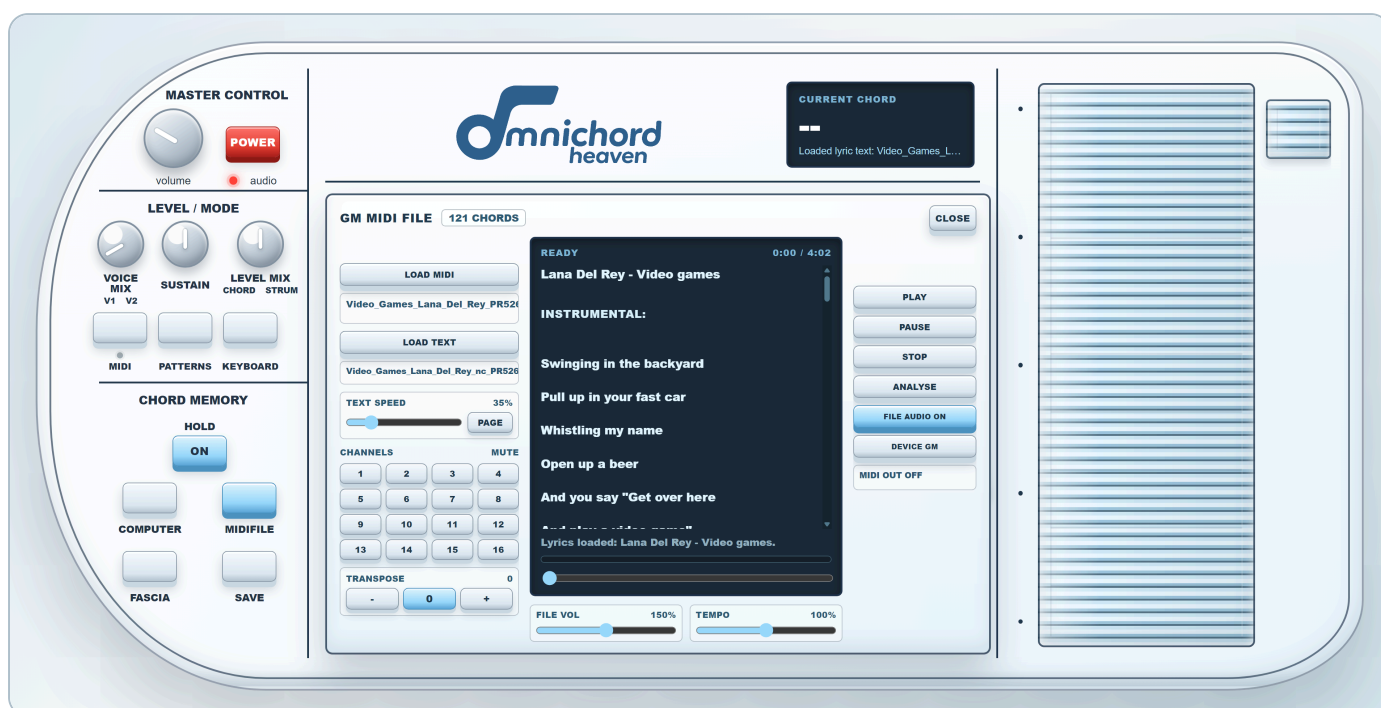
- Channel 1: strumplate and keyboard notes
- Channel 2: chord notes
- Channel 3: bass

If no output is found, or the browser does not support Web MIDI, the status display shows a message.

MIDI output follows the current chord, bass, keyboard mode, and global transpose.

11. GM MIDI File Player And Lyric Display

Press **MIDIFILE** to open the GM MIDI file player.



LOADING A FILE

Use **LOAD MIDI** to choose a **.mid**, **.midi**, or **.kar** file. The OH-84 analyses the MIDI data and builds a chord timeline where possible.

Use **LOAD TEXT** to load a plain text or lyric file. The lyric display can be scrolled manually or set to auto-scroll.

TRANSPORT

- **PLAY** starts playback.
- **PAUSE** pauses playback.
- **STOP** stops playback.
- **ANALYSE** re-runs the chord analysis.

The display shows the current time, total length, current chord, lyric text, and analysis status.

CHANNELS

The channel grid shows MIDI channels 1 to 16. Use it to mute channels during playback.

TEXT SPEED AND PAGE

TEXT SPEED controls lyric auto-scroll speed. **PAGE** advances the lyric display when available.

FILE VOLUME AND TEMPO

- **FILE VOL** controls the internal MIDI-file playback level.
- **TEMPO** changes MIDI-file playback speed from slower practice speed to faster playback.

MIDI FILE TRANSPOSE

Use the **-**, **0**, and **+** transpose buttons to move MIDI-file playback from **-6** to **+6** semitones.

FILE AUDIO AND DEVICE GM

- **FILE AUDIO ON** uses the OH-84 internal GM-style playback engine.
- **DEVICE GM** sends the MIDI file to an external MIDI device when a MIDI output is available.

The output status line shows whether MIDI out is active.

12. Custom Fascia

Press **FASCIA** to open the custom fascia panel.



The fascia menu includes colour presets:

- Classic
- Ivory
- Brown
- Red
- Blue
- Mint
- Rose
- Graphite

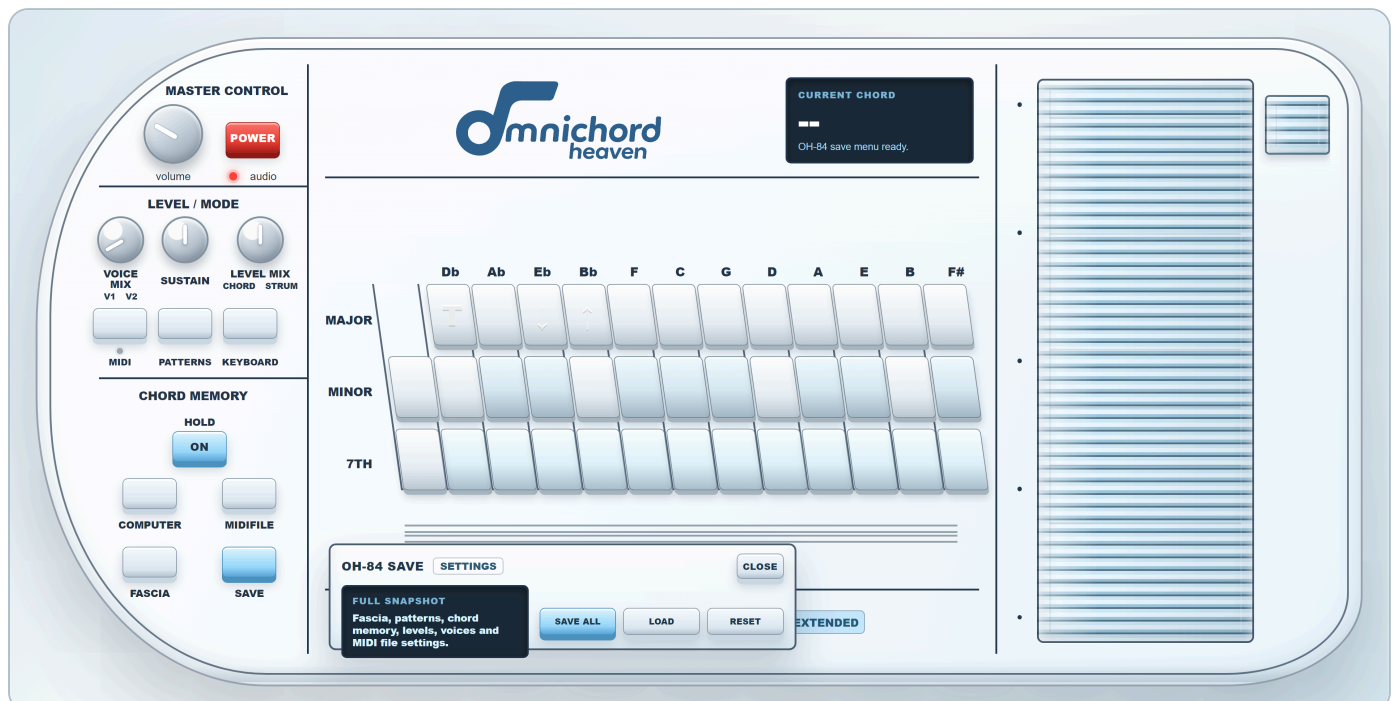
Use **IMAGE** to load a custom image fascia. Use **CLEAR IMG** to remove the image while keeping the selected colour. Use **RESET** to return to the classic fascia.

The fascia menu also contains the **KEYMAP** button, which turns the visual keyboard overlay on or off.

Fascia settings and the keymap state are included in full settings save/load.

13. Save, Load, And Reset

Press the main-panel **SAVE** button to open the OH-84 save menu.



SAVE ALL

SAVE ALL creates a full OH-84 settings snapshot. It includes:

- Fascia and custom image data
- Rhythm patterns and pattern edits

- Chord memory
- Level and volume settings
- Voice assignments
- MIDI-file player settings
- Keymap state
- Current rhythm and mode settings

The full snapshot saves the MIDI-file player settings, but it does not embed the imported MIDI file or lyric text file themselves. Load those files again if you reopen the instrument on another browser or computer.

When supported by the browser, you can choose the save location and file name. Otherwise the browser downloads a JSON file named like:

```
oh84-full-settings-YYYY-MM-DD-HHMM.json
```

LOAD

LOAD opens an OH-84 full settings JSON file and restores the saved state.

RESET

RESET arms a factory reset. The button changes to **SURE?**. Press **SURE?** to restore the complete factory state.

Factory reset restores the factory patterns as well as default levels, voices, fascia, chord memory, MIDI-file settings, and keymap state.

The OH-84 also saves current settings automatically in the browser, so most settings return when you reopen the page in the same browser.

14. Troubleshooting

NO SOUND

Press **POWER** first. Browser audio will not normally start until the page receives a direct click or tap.

Check the master **Volume**, rhythm **Volume**, and **Level Mix** controls. If using the MIDI file player, check **FILE VOL** and whether **FILE AUDIO ON** is enabled.

RHYTHM IS PLAYING BUT THERE IS NO BASS OR CHORD

Open **PATTERNS** and check the accompaniment buttons. **AUTO BASS** must be on for bass notes. A current chord is needed for programmed accompaniment to follow.

PATTERN EDITS ARE NOT HEARD

In the rhythm programmer, press **APPLY** after editing. **SAVE** exports a file, but **APPLY** writes the edit into the selected pattern slot.

LOADED PATTERN DID NOT REPLACE THE TARGET

After `LOAD`, press `APPLY`. Loading places the pattern into the programmer first so you can inspect it before storing it.

MIDI OUTPUT DOES NOT WORK

Use a browser with Web MIDI support, such as Chrome or Edge. The browser may ask for permission. Make sure a MIDI output device is connected before pressing `MIDI`.

THE VISUAL KEYMAP IS NOT SHOWING

Open `FASCIA` and press `KEYMAP`. The overlay can be turned on and off at any time.

CAPS LOCK OR LEFT BACKSLASH DOES NOT TRIGGER THE EXTRA BUTTONS

Click inside the OH-84 page first so it has keyboard focus. The two extra edge buttons use `Caps Lock` and the left `\` key on keyboards that report it as `IntlBackslash`.

A MENU COVERS A MESSAGE

Messages are designed to appear above the pop-out panels. If a browser zoom or extension changes the layout, reload the page and try again.

15. Keyboard Reference

CHORD BUTTONS

Major row:

Q W E R T Y U I O P []

Minor row:

A S D F G H J K L ; ' \

7th row:

Z X C V B N M , . / Right Shift Right Ctrl

Extra 108-chord edge buttons:

Caps Lock
Left \

STRUMPLATE

```
` 1 2 3 4 5 6 7 8 9 0 - =
```

MIDI CHANNELS

Channel 1: strumplate and keyboard

Channel 2: chords

Channel 3: bass

16. Specification Sheet

Item	Specification
Instrument	Omnichord Heaven OH-84 Full / Extended browser instrument
Format	Single-page browser instrument, HTML/CSS/JavaScript
Audio engine	Web Audio API with internal OH-84 style strum, chord, bass, drum, and GM-style playback voices
Main playing areas	108-chord button section, wide strumplate, keyboard mode, rhythm/accompaniment section
Chord roots	Db, Ab, Eb, Bb, F, C, G, D, A, E, B, F#
Visible chord rows	Major, Minor, 7th
Chord qualities	Major, Minor, 7th, Major 7th, Minor 7th, Diminished, Augmented, Sus4, Add9
Extended chord button	Cycles Sus4, Add9, Off
Total chord system	108 playable chord choices in the full/extended build
Global transpose	T-12 to T+12 semitones
Strumplate control	Pointer/touch strum surface plus computer keyboard strum keys
Strumplate keys	Backquote, 1, 2, 3, 4, 5, 6, 7, 8, 9, 0, -, =
Keyboard mode range	20 mapped note buttons, C4 to G5
Keyboard/strum voices	OH-84, Piano, E Piano, Celeste, Vibes, Harp, Organ, Guitar, Strings, Lush Str, Warm Pad, Flute
Chord memory	Up to 128 stored chord steps
Rhythm pattern slots	12 total: 10 named factory patterns plus User 1 and User 2
Factory rhythm names	Rock 1, Rock 2, Disco, Latin, Country, March, Tango, Blues, Swing, Waltz
Rhythm meters	4/4, 4/4 triplet, 12/8, 3/4
Rhythm length	1 or 2 bars
Drum programmer lanes	Bass Drum, Snare / Rim, Clap, Closed Hat, Open Hat, Hi Tom, Low Tom, Cymbal, Cowbell, Maracas, Claves, Wood Block
Accompaniment programmer	Bass interval grid C1 to C2 plus chord-stab row
Bass transposition	Programmed bass intervals follow the selected chord root and quality
Audition key	Rhythm programmer auditions in C major
MIDI output	Web MIDI where supported by the browser
Main MIDI channels	Channel 1 strum/keyboard, Channel 2 chords, Channel 3 bass
MIDI file support	.mid, .midi, .kar
Lyric/text support	.txt and .lrc lyric/text files
MIDI file transpose	-6 to +6 semitones
MIDI file tempo	50% to 150% playback speed
MIDI file volume	0% to 300% internal file-audio level
MIDI file options	Internal audio, external Device GM output, channel mute, chord analysis, lyric auto-scroll
Fascia presets	Classic, Ivory, Brown, Red, Blue, Mint, Rose, Graphite
Custom fascia	Image upload and clear-image options
Visual keymap	Toggleable overlay for physical keyboard chord mapping
Pattern save format	OH-84 rhythm pattern JSON
Full settings format	OH-84 full settings JSON
Full settings include	Fascia, custom image data, rhythm patterns, chord memory, levels, voices, MIDI-file player settings, keymap state, selected rhythm and modes
Browser storage	Automatic local settings save in the browser
Browser requirements	Modern browser with Web Audio; Web MIDI required only for external MIDI output