

Aurelia

a wind instrument for everyone




Terraphones




Aurelia is a wind instrument that bridges acoustic and electronic sounds. It responds to both breath and touch, translating natural, human gestures into rich melodies. Aurelia's key layout is unique to all other wind instruments, giving you the ability to play in every major and minor key with equal ease. Aurelia was created to feel as inviting to the novice as it is deeply expressive to the professional.

Aurelia's keys use Cherry MX Silent Red keyswitches, giving you the accuracy and speed that can be found on the highest quality wind instruments. Housed in a solid walnut enclosure, Aurelia has a striking visual aesthetic that also feels comfortable in the hands.

Aurelia has a unique sonic engine that uses warm, analog-modeled oscillators, creating a gradient of sound qualities that work well with both acoustic and electronic musical environments. While playing solo melodies is at Aurelia's core, it also has a Counterpoint Mode that will harmonize with you as you play. Just choose a key, and Aurelia will figure out the rest.

Aurelia is designed for portability. It can run on four rechargeable AA batteries, and has a built-in speaker. With USB MIDI out and a 1/4" stereo audio out, Aurelia excels in studio and live performance settings as well. Aurelia can be powered via USB-C with any device that supplies 4-17 volts.



Important Notes

While Aurelia is a performance instrument, it should also be handled with care.

Temperatures

Do not keep Aurelia in a hot environment for any extended period of time, **especially a hot car**, or any environment near or over 49°C/120°F. Doing so risks damaging both the wood and the keys. Additionally, if Aurelia is in a cold environment (below 4°C/40°F) for an extended period of time, it should be warmed up slowly, otherwise the wood may crack. If you are familiar with handling acoustic, wooden instruments, treat Aurelia with the same care that you would a violin, clarinet, or acoustic guitar.

Do not attempt to play Aurelia if it is noticeably cold to the touch. The warm air from your breath may rapidly warm up the wood, causing it to crack. **Do not play Aurelia immediately after eating.** Food particles are very bad for the breath sensor mechanism inside of Aurelia. It is important to only play Aurelia if your mouth is clean. This is the same for all wind instruments.

Sound Quality

Because of Aurelia's compact nature, the built-in speaker is small, making it suitable for practicing, and playing in quiet, solo situations. For higher amplification and better sound quality, it is recommended to connect Aurelia to an amplifier (a standard guitar amp works well). You can think of Aurelia as having similar acoustic capabilities to a hollow-body electric guitar. Play unplugged in casual settings, and with an amp in performance settings.

Batteries

Aurelia can run on 4 rechargeable AA batteries. Please only use rechargeable NiMH batteries, and refrain from using standard alkaline batteries. Using rechargeable batteries also prevents the wastefulness of single-use batteries!

Enclosure

Please refrain from opening up the enclosure. There should not be a need to open the enclosure at all. Opening the enclosure will void your warranty.

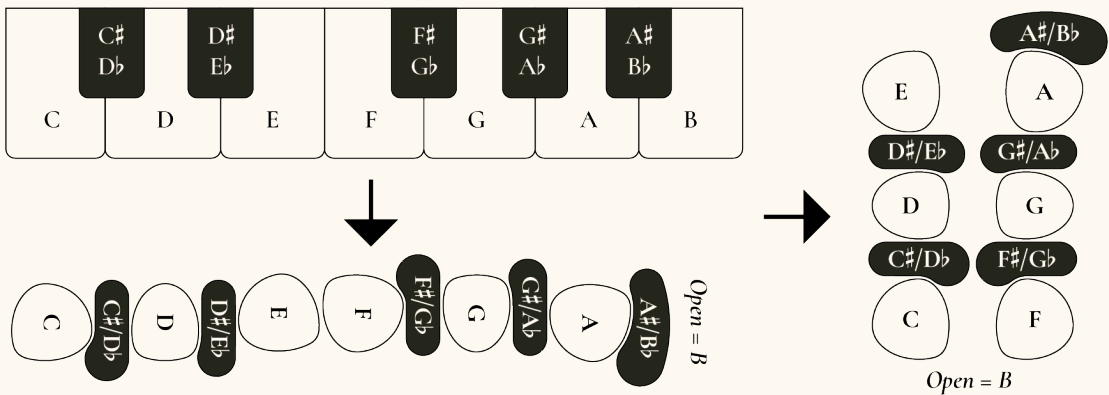
Reference



Fingerings

Aurelia's key layout is derived from the piano, giving it an immediately familiar feel on first play. Instead of pressing combinations of many keys, Aurelia lets you play every note with a single key. Aurelia's design achieves a feat that is not found in any other woodwind instrument: all twelve major and minor keys are equally easy to play. This unlocks a new understanding of previously more complex keys on woodwinds, making Aurelia approachable and fun to play for seasoned woodwind players as well as those who have never played a woodwind instrument before.

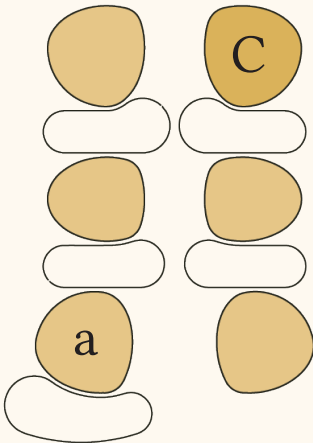
Aurelia's eleven keys play every note except B. The note B is played by not pressing any of the buttons, otherwise known as an "open" fingering. The open B is the lowest note in the currently selected octave.



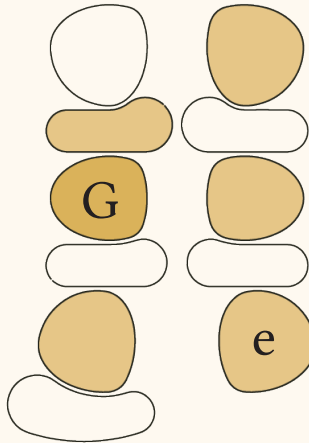
Scale Fingerings

Aurelia allows you to play any major or minor scale by placing your hands in a fixed position

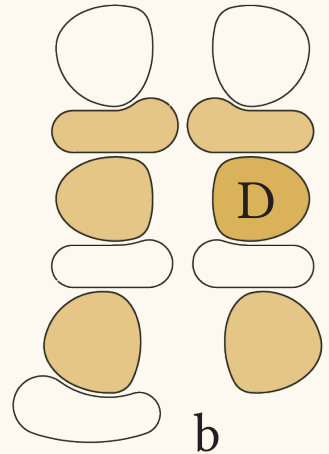
C major / A minor



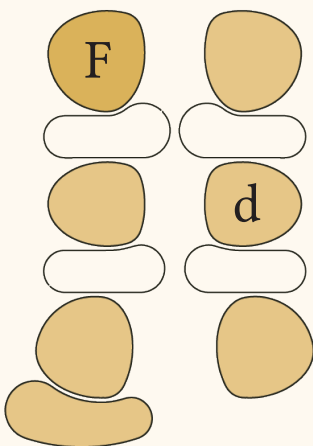
G major / E minor



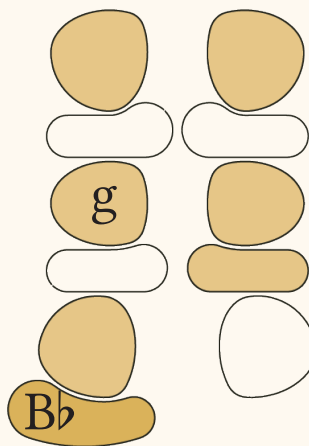
D major / B minor



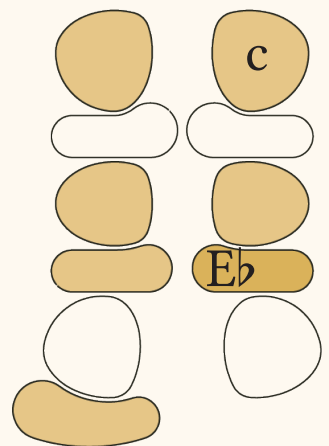
F major / D minor



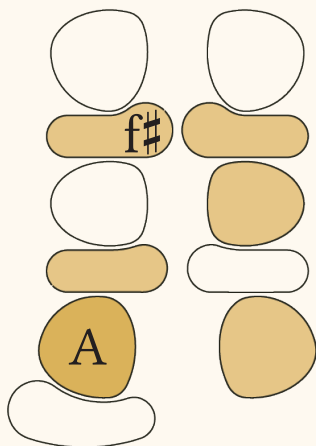
B \flat major / G minor



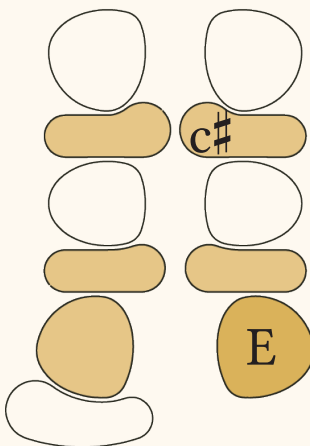
E \flat major / C minor



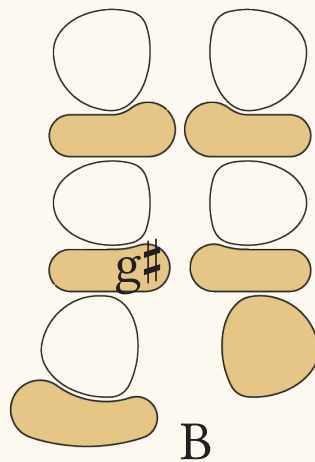
A major / F# minor



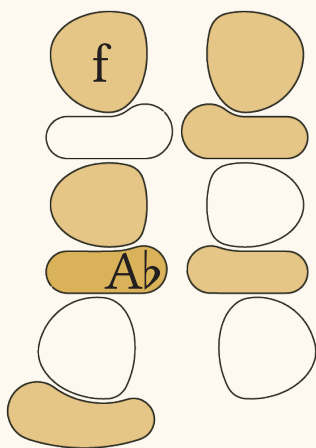
E major / C# minor



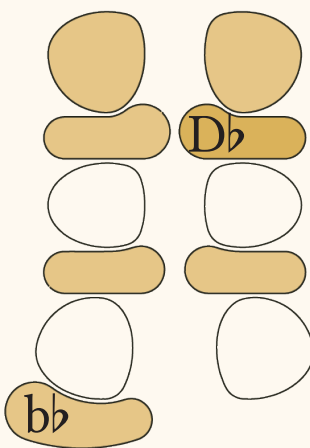
B major / G# minor



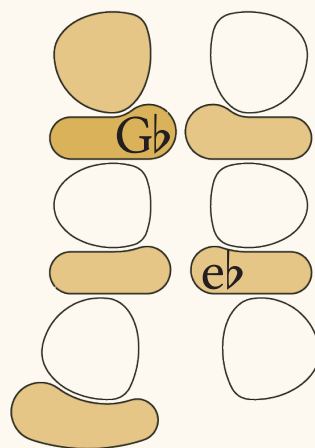
A \flat major / F minor



D \flat major / B \flat minor

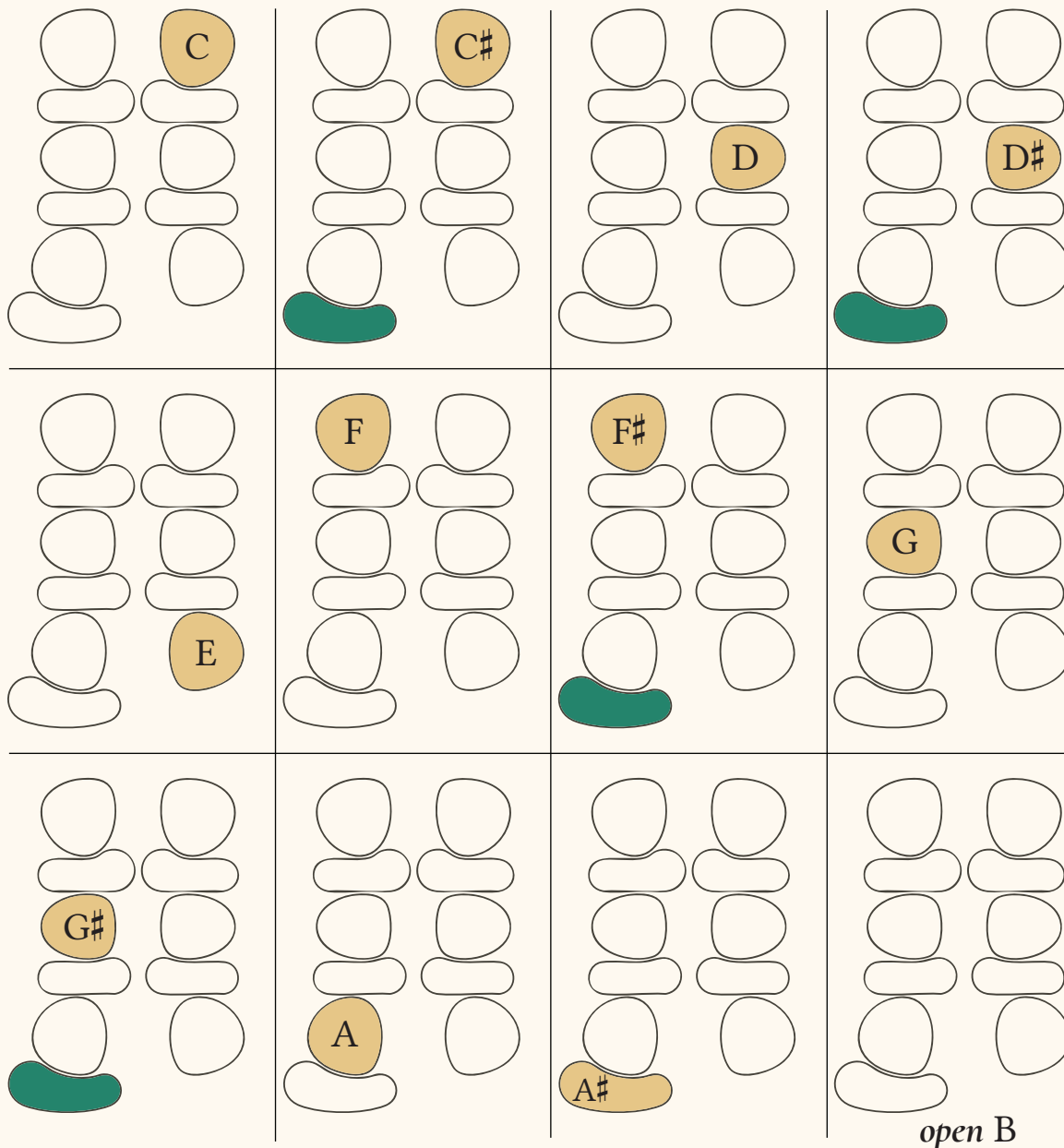


G \flat major / E \flat minor



Chromatic Fingerings

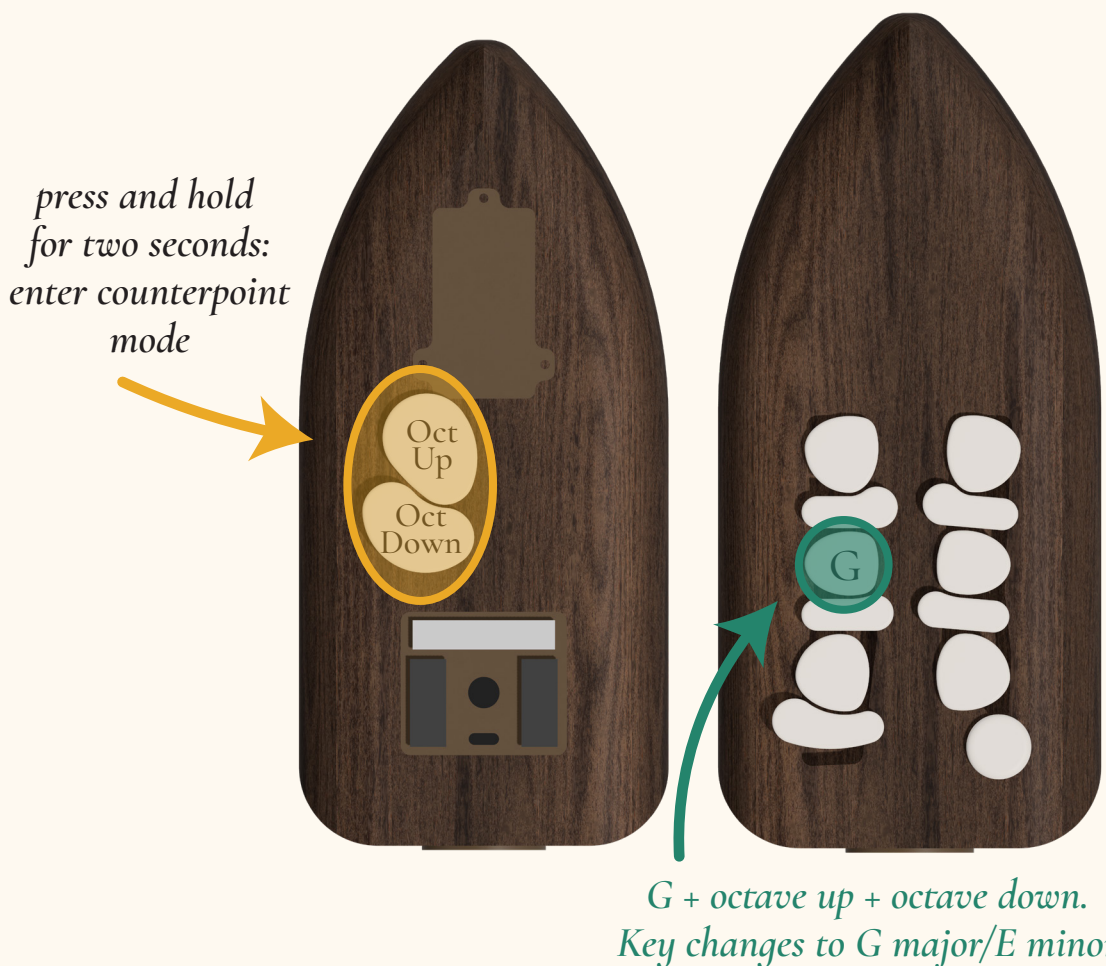
Pressing the A#/Bb pinky key in combination with any other key will raise it by a semitone. This allows you to play chromatic scales and melodies with ease.



Counterpoint Mode

While playing solo melodies is at Aurelia's core, it also has a Counterpoint Mode that will harmonize with you as you play. Press and hold both the octave up and octave down keys to enter Counterpoint Mode. Hold these two buttons again to exit the mode as well.

To pick a key (or change keys), briefly press the root note of the key that you want to play in, plus octave up and octave down. This will shift the harmonization to the correct key.



Timbre and Reverb Slider

The timbre slider on the back allows you to crossfade between nine curated timbres. They are as follows:

Sine – Triangle – Square – Saw – FM (2:1) – FM (1:1) – FM (1:2) – FM (4:1) – FM (2:3)

Holding down the octave up key repurposes the reverb slider, allowing you to control the amount of built-in reverb, from a short, room-like sound, to a full cathedral-style reverb effect.

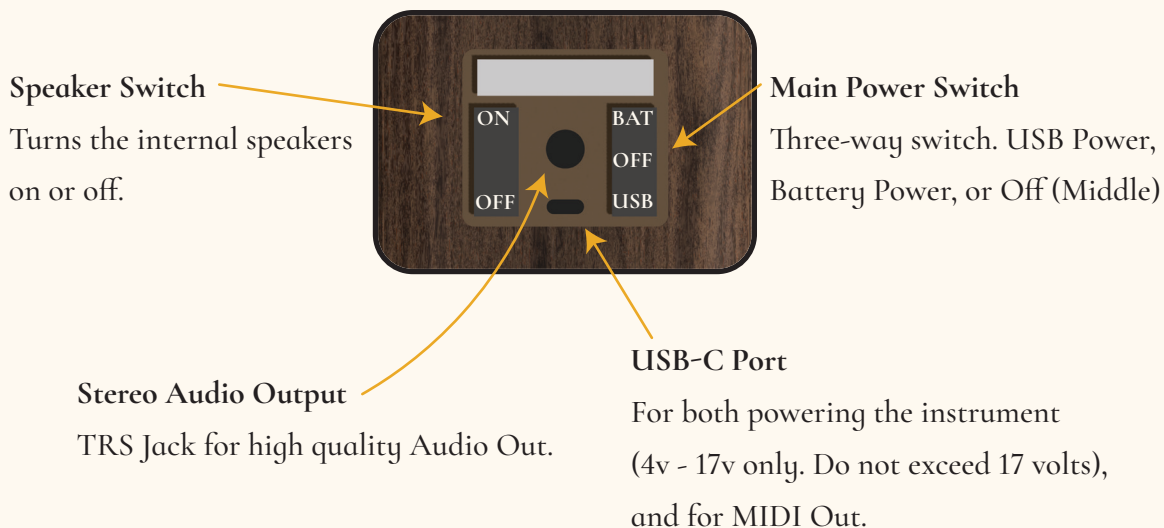
Pitch Bend

Aurelia also has a dedicated force-sensitive pad that allows the player to bend pitch upward, adding nuanced expression to their playing. This pad is located next to the E key and is played with the left pinky.



Inputs, Outputs, and Switches

Aurelia has a USB-C port for power, and for outputting USB MIDI. Aurelia works slightly different than other MIDI EWIs. Aurelia gives you control over how you map the breath controller and the timbre slider. The breath controller is mapped to CC102, and the timbre slider is mapped to CC103. In your DAW, map CC102 to a gain knob, and it will act like a proper MIDI EWI.

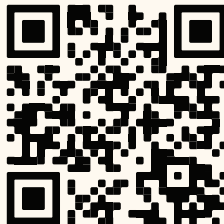


Cleaning

In the box that Aurelia came in, there should be a few small, white pipe cleaners. Use these to swab out the hole in the mouthpiece. **Slowly** insert the pipe cleaner into the hole, and push lightly until it stops. **Do not attempt to push harder** if the pipe cleaner feels like it won't go any further. This will ruin the breath sensor. *Please be careful and slow when cleaning Aurelia.*

The following QR code is a link to the pipe cleaners that are included in your box, though you can use any 3mm pipe cleaner.

3mm Pipe Cleaners on Amazon



Any Questions?

I would love to answer them!

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