```
SPEC ID       : QLA-BP-000000003601                                RESONANCE     : 9.8 / 10.0 CR
ATTRIBUTED TO : Danjel van Tijn & Intellijel Engineering Guild     CALIBRATED    : 2026-11-10
NODE ENDPOINT : https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000003601
```

Cascadia Lattice // Dual-Core Harmonic Phase-Vector & Acoustic Resonator Bridge

---

[THE MECHANICS:]

A 24HP Eurorack synthesizer module and standalone desktop sound-sculpting instrument extending Intellijel Cascadia and Metropolix architectural lineage. It merges an analog West-Coast through-zero triangle-core oscillator with a multi-stage discrete diode wavefolder and an interactive vector crossfader. Uniquely, rather than sterile internal DSP clipping, it routes the folded harmonically rich audio path through a high-bandwidth discrete analog operational-transconductance amplifier (OTA) matrix with active inductive feedback coils that naturally track DC voltage shifts and thermal transients. Features a dedicated 1U satellite expander bus for direct multi-point patch-point injection, calibrated ±10V bipolar CV outputs with laser-trimmed 0.01% voltage references, and a high-current piezo driver interface to physically induce vibrations into external instrument chassis.

[UTILITARIAN VALUE:]

Combines surgical laboratory precision with unpredictable tactile organic warmth, providing live modular performers with instantaneous harmonic morphing, zero-latency phase vectoring, and physical acoustic resonance in a compact footprint with pristine signal-to-noise ratio.

[TARGET ECOSYSTEM:]

Intellijel Eurorack cases (Palette, 7U Performance Case), Metropolix, Cascadia, Atlantis, live improvisational modular setups, and high-end acoustic-electronic hybrid studios.

Roily USD Craft Bounties:
Commission or challenge independent sound designers for verified USD bounties at https://roily-app.vercel.app

---

INTERACTIVE 3D TERMINAL & SOVEREIGN CRAFT ECOSYSTEM LINKS

1. Inspect Live 3D Simulation, Crash-Test BOM & 1-Click Claim/Delist:
   https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000003601
2. Commission Verified Modular Sound & 3D Artisans (USD Bounties on Roily):
   https://roily-app.vercel.app/?tab=feed
3. Source Direct B2B Manufacturing & Code Execution (0% Tax on DealOff):
   https://deal-off.vercel.app/?from=qualia&title=Cascadia%20Lattice%20%2F%2F%20Dual-Core%20Harmonic%20Phase-Vector%20%
4. Hardware Unit-Economics Essays & Original Books by C.J. Night:
   https://cjnight.substack.com