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SPEC ID       : QLA-BP-000000003701                                  RESONANCE     : 9.8 / 10.0 CR
ATTRIBUTED TO : Aaron Higgins & 1010music Engineering Guild          CALIBRATED    : 2026-11-10
NODE ENDPOINT : https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000003701
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Nanobox Obsidian // Polyphonic Physical Modeling Resonator & Bipolar CV Mesh

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[THE MECHANICS:]

An ultra-compact palm-sized desktop synthesizer and semi-modular audio processor combining 1010music signature capacitive touchscreen with a dual-engine physical modeling acoustic resonator and discrete 3.5mm bipolar CV/Gate routing matrix. Rather than static sample playback or basic wavetables, Obsidian implements real-time finite-difference time-domain (FDTD) acoustic string and membrane simulations with variable physical mass, nonlinear stiffness, and strike-position modulation. Features twin high-impedance analog audio inputs routed through a discrete low-noise analog preamplifier, direct microSD continuous lossless multi-stem streaming, and 4 assignable ±5V analog CV inputs/outputs that bridge standalone pocket workflows with Eurorack modular ecosystems.

[UTILITARIAN VALUE:]

Bridges the gap between tactile pocket portability and complex acoustic physics, giving live modular performers and touring producers organic orchestral plucked textures, physical drum strikes, and resonant metal cavities in a micro-enclosure with zero fan noise and USB-C power delivery.

[TARGET ECOSYSTEM:]

1010music Nanobox and Studio families (Blackbox, Bluebox, Lemondrop, Tangerine), Eurorack modular setups, live ambient and techno producers, and mobile touring sound designers.

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

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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/b0000000-0000-0000-0000-000000003701
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=Nanobox%20Obsidian%20%2F%2F%20Polyphonic%20Physical%20Modeling%20Reso
4. Hardware Unit-Economics Essays & Original Books by C.J. Night:
   https://cjnight.substack.com