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SPEC ID       : QLA-BP-000000001504                                RESONANCE     : 9.4 / 10.0 CR
ATTRIBUTED TO : Dusan Navara                                       CALIBRATED    : 2026-11-06
NODE ENDPOINT : https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000001504
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Photonic Spatial Telemetry Nodes

[THE MECHANICS:]

Kvant shall transition from purely aesthetic projection hardware to industrial-grade spatial telemetry infrastructure by integrating high-frequency LiDAR modules directly into the optical path of existing high-power RGB scanning systems. By leveraging the existing sub-millisecond galvo actuators and adding a secondary, eye-safe infrared (1550nm) laser diode array, each unit will map the atmospheric and structural geometry of a venue in real-time. The system utilizes the existing ArtNet/DMX interface to stream precise 3D point-cloud data back to the control console, effectively turning the laser projector into a high-resolution 3D spatial scanner that dynamically adjusts projection geometry to compensate for surface curvature and atmospheric turbulence.

The economic model shifts from one-time hardware procurement to a recurring SaaS revenue stream via the "Kvant Spatial Intelligence" cloud suite. Clients pay a per-node licensing fee to access the telemetry data, which provides automated regulatory compliance for laser safety zones. The system continuously calculates the exact intersection of the laser beam with human presence in the venue, triggering instantaneous beam-blanking via the hardware's internal safety interlock system without requiring manual operator supervision.

[UTILITARIAN VALUE:]

This pivot transforms Kvant from a capital-expenditure vendor into a mission-critical safety and operational partner, enabling high-margin recurring revenue through software subscriptions while drastically reducing the liability insurance premiums for stadium-scale events. By automating the safety-critical beam-blanking process, Kvant eliminates the need for manual safety officers and mitigates the risk of regulatory fines, effectively capturing the high-value intersection of entertainment production and industrial automation.

[TARGET ECOSYSTEM:]

Large-scale festival production, stadium-class laser light shows, and high-security architectural lighting installations.

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/b0000000-0000-0000-0000-000000001504
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=Photonic%20Spatial%20Telemetry%20Nodes&bounty=250
4. Hardware Unit-Economics Essays & Original Books by C.J. Night:
   https://cjnight.substack.com