```
SPEC ID       : QLA-BP-000000001605                                RESONANCE     : 9.6 / 10.0 CR
ATTRIBUTED TO : Christopher Taber                                  CALIBRATED    : 2026-11-06
NODE ENDPOINT : https://qualia-teal.vercel.app/idea/b0000000-0000-0000-0000-000000001605
```

Rolling-Phosphor FPGA Optical Bridge

[THE MECHANICS:]

A direct-drive FPGA display controller that bypasses full-frame buffer serialization to drive a custom 960Hz rolling-scan micro-OLED panel in synchronous lockstep with legacy 15kHz CRT electron-beam timing. Each scanline is illuminated with a 400-microsecond phosphor decay curve and hardware-decoded optical light-gun photodiode trigger accuracy down to a single clock cycle.

[UTILITARIAN VALUE:]

Restores true zero-buffer CRT motion clarity and native optical light-gun compatibility on modern flat-panel hardware without external scalers.

[TARGET ECOSYSTEM:]

Cycle-accurate FPGA console engineering, archival hardware preservation, and competitive retro esports.

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/b0000000-0000-0000-0000-000000001605
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=Rolling-Phosphor%20FPGA%20Optical%20Bridge&bounty=250
4. Hardware Unit-Economics Essays & Original Books by C.J. Night:
   https://cjnight.substack.com