



Precision at Your Fingertips: CureWave's Laser Interface Reinvented



Challenge

CureWave Lasers, a medical device company pioneering non-invasive laser therapy for pain relief, had a breakthrough product—but their control interface was stuck in the past. The original screen ran on outdated technology, resembling a Palm Pilot with a clunky, hard-to-navigate interface. It was unintuitive for clinicians and difficult to operate, often requiring a stylus and precise taps on crowded screens. The experience didn't match the innovation of the device itself.

Solution

We partnered with CureWave Lasers to modernize their laser system by integrating an Android tablet directly into the hardware. We developed a custom Android application that replaced the legacy interface with a sleek, intuitive touchscreen experience. The app communicates with the laser's internal PLC (primary logic control), allowing clinicians to control therapy settings with ease—using simple presets like low, medium, or high intensity, or switching to advanced mode for manual adjustments. We also worked closely with an FDA compliance consultant to ensure every aspect of the solution met regulatory standards, documenting the process thoroughly for approval.

Technology



Operating Leverage

The result was a complete transformation of the user experience. Clinicians could now operate the device confidently and efficiently, with a modern interface that aligned with the sophistication of the therapy. The laser system was effectively upgraded from *version 1.0* to *2.0*, ready for market with a compliant, future-ready platform. With us as a trusted partner, CureWave Lasers delivered a product that felt as advanced as the therapy it provided.

