



Complementing Breakthrough Laser Technologies with Smartphone Enabled Remote



Client Business Description

- ◇ Global leaders of advanced technology products & solutions for Scientific Research, Photovoltaics, Semiconductors and Microelectronics markets.

Background

- ◇ SWL-7500 series lasers manufactured by Newport offer extremely narrow linewidths from an OEM-ready platform. The end-user may choose an output Wavelength (within a specified wavelength range) & get it manufactured for the precise wavelength.
- ◇ Existing systems to control the Laser Amplifier consisted of Software running on Laptops directly connected over serial / Ethernet port of Amplifier.

Challenge

- ◇ Laser generators were not Remote Controlled until this time and doing this will be a good use case for their remote operability in areas like Interferometry, Raman imaging and spectroscopy, Terahertz generation, LIDA, Data encryption

Idea

- ◇ Utilize Smartphone devices for remote controlling the Laser Generating unit (SWL-7500 series)

Our Solution

- ◇ Developed an iOS Application allowing to control the Laser Amplifier & view its parameters in real time using RS 232 protocol packaged within TCP / IP headers.
- Application allowed remote controlling Amplifier's Power output by setting the Current and Voltage settings.
- Application allowed viewing laser head temperature, threshold temperature, current, etc.

Technologies Used

- Objective C
- iOS & Cocoa Framework
- Lantronix WiPort

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