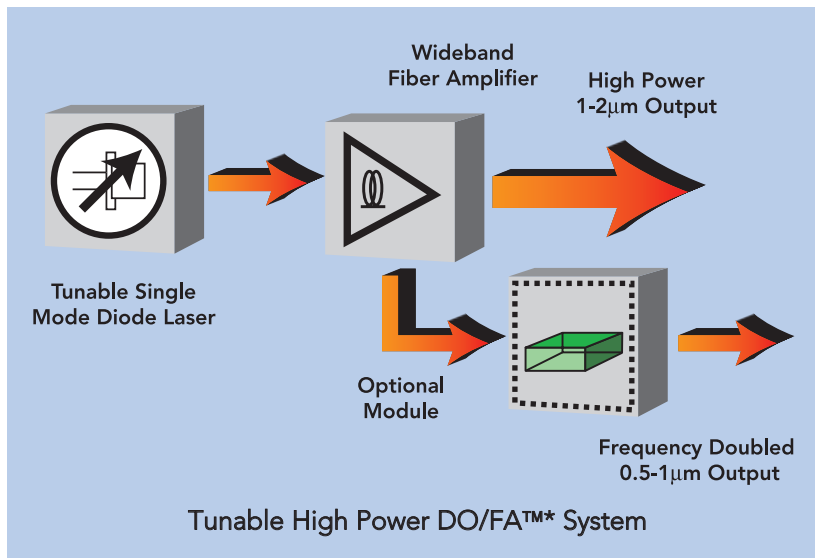




# PRELIMINARY Tunable Laser Source

SRI International (Menlo Park, CA) and the Gas Technology Institute (Des Plaines, IL) have jointly developed a proprietary technology for widely tunable continuous-wave laser sources. The technology is based on the Diode Oscillator/Fiber Amplifier (DO/FA™\*) approach. The radiation of a narrowband tunable diode laser is amplified up to one thousand times in a diode pumped fiber amplifier (see figure at right). With a combination of optional modules, spectral coverage between 0.5 $\mu$ m and 2 $\mu$ m is achieved.



## Features

- Output power >100mW in the 1-2 $\mu$ m spectral range; up to 1W in certain intervals
- Output power >30mW in the 0.5-1 $\mu$ m spectral range
- Narrow linewidth (<100MHz)
- High spectral purity (SMSR>30dB)
- Modulation inputs: DC to RF
- Fast tuning
- Optional ultrastable frequency locking
- GPIB interface
- All-solid state
- Compact size
- Low power consumption
- Modular system (buy what you need now, upgrade later)
- OEM versions available

## Applications

- Replacement for dye and Ti: sapphire lasers
- Telecommunication component testing
- Frequency referencing
- RF signal generation
- Laser spectroscopy
- Trace gas detection
- Trace moisture detection
- Remote sensing (open atmosphere long-path absorption)
- Pollution monitoring (facility perimeter)
- Fiber-coupled Raman analytical spectroscopy
- General optoelectronics/laser R&D

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