Liekki Application Designer (LAD) is a versatile design tool for fiber applications providing a strong platform for simulating and optimizing fiber amplifiers, fiber laser systems, and ASE sources. This software is based on precise algorithms that account for all the reflections in the system, which are especially crucial for accurate laser and ASE light source simulations. The simulation engine also accurately accounts for large-mode-area and highly doped fibers, providing a robust design by allowing rapid exploration of multiple alternative designs.

The Liekki Application Designer is a very powerful tool for simulating high-power, continuous wave (CW) or pulsed lasers; it includes transient analysis, SBS and SRS threshold estimations, inversion level calculation, and radial doping. In addition, Monte Carlo simulation, which is very important when analyzing the manufacturability and tolerance sensitivity of a design, is included. Thus, Liekki Application Designer supports the full application design and analysis process from the early research, prototype, and pilot stages to full volume production. As a result, the Designer shortens the design cycle, saves on development expense, and improves time-to-market. The user of Liekki Application Designer could be a product designer, an optical engineer, a research scientist, or a student.

**Features**
- Simulates Erbium-and Ytterbium-Doped Fibers:
  - Single Mode and Double Cladding Fibers
  - Small Core and Large-Mode-Area Fibers
  - Low and High Dopant Concentration
  - Clustering Effects
- CW and Transient Analysis Down to Picoseconds
- Monte Carlo Analysis
- SBS and SRS Threshold Estimations
- Inversion Level Calculation
- Distributed Computing
- User Defined Model

**System Requirements**
- Processor: Pentium 1GHz or Faster
- 256MB of RAM or Higher
- 100MB Free Hard Disk Space

- Functionality is Added Regularly to Follow the Evolutions of the Fiber Lasers and Amplifiers Industry
- LAD is Delivered With a 1-Year Maintenance Plan That Includes Upgrades and Full Support From Liekki Corporation
- User Developed Components are Easily Integrated

**Fiber Amplifier, ASE, & Laser Simulation Software**

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Application Designer: Fiber Amplifier, ASE, and Laser Simulator, Professional Version 3.3