




Raydiance Company Overview

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Abstract

Raydiance is a next-generation laser company that has integrated photonic, computing and software technologies to create the world's only commercial-grade ultrafast laser. Raydiance's breakthrough technology brings "intelligent" control and small form factor to ultrafast laser light—extremely brief and powerful light pulses capable of precisely ablating virtually any material without generating heat.



Raydiance is a next-generation laser company that has integrated photonic, computing and software technologies to create the world's first commercial-grade ultrafast laser. Raydiance's breakthrough technology brings "intelligent" control and small form factor to ultrafast laser light—extremely brief and powerful light pulses capable of precisely ablating virtually any material without generating heat.

The unique capabilities of ultrafast light have been demonstrated in research laboratories for years, however, the transformative potential of the technology has been held back by its size, complexity and expense. Raydiance has taken this compelling but commercially impractical technology and has liberated it from the lab. By miniaturizing ultrafast hardware and then imparting it with brains—an easy to use software operating system that controls every aspect of the laser—Raydiance offers the power of ultrafast as a practical and reliable platform technology.

The Raydiance platform is a "plug and play" system that operates on standard 90 - 230 VAC, occupies the footprint of a microwave oven, and is typically up and running out of the shipping crate in 30 minutes. With its enabling platform, Raydiance has taken the industry lead in defining the fundamental standards of commercial-grade ultrafast: performance, reliability, and integrated software design. Those standards make possible the deployment of Raydiance ultrafast in diverse commercial applications, including micro-medical devices, thin film photovoltaic cells, glass display technology, and microelectronics.

The company's business model is best understood as a combination of Intel and Microsoft—offering both the hardware and the operating-system software to customers who will create and market devices in a wide variety of sectors. And to lower the risk of innovation, Raydiance has developed a low cost path to reaching ultrafast solutions. Our Applications Lab provides for our customers the ability to do rapid, proof-of-concept validation of ideas. From there, customers proceed with a process development trial at their facility, during which they can establish process requirements, their ultrafast "engine" needs and begin the integration process. Finally, our customers move to a production phase in which Raydiance helps them integrate ultrafast solutions onto their

production floor, whether through capital purchase or a monthly technology subscription program—hardware and software—called TechStream™. This latter approach not only lowers the financial risk for customers, but also keeps them on the leading edge of the ultrafast technology envelope.

The central thrust of Raydiance’s business plan is to take the industry lead in building volume commercialization of this transformative technology. By aggregating markets onto its platform, the company will use volume-manufacturing techniques to drive costs down, which, in turn, will open opportunities in additional markets.

Executive Team

Barry Schuler, Chief Executive Officer

Scott Davison, President

Bill Beyer, Chief Financial Officer

Additional Highlights

- Raydiance has a seasoned, highly successful management team representing more than 100 years of experience in computer and laser technologies.
- The company has built the world’s first high-volume ultrafast manufacturing facility capable of scaling production to thousands of units per year.
- Raydiance is building an international business network with distribution partners in Europe and Asia.
- Raydiance has a strong intellectual property portfolio comprising 48 patents issued or pending, as well as over 118 records of invention.
- The company has a co-development/research agreement with the FDA.
- The State of New Mexico has an economic development initiative focused on Raydiance technology.
- Raydiance has received significant attention from such notable publications as *BusinessWeek*, *Wired* and *Physics Today*. Details can be found at www.raydiance-inc.com