

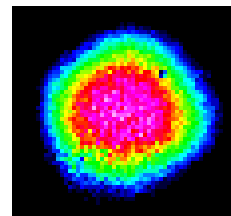
A new generation of Femtosecond lasers

Amplitude Technologies is a leading manufacturer of advanced solid state lasers. From X-ray generation to micro-machining, from plasma physics to biological imaging, Amplitude Technologies meets the requirements of science and industry with cutting edge technologies, ease-of-use, and reliability.

Amplitude Technologies' core expertise in high power ultrafast lasers and diode-pumping technologies is built upon an expert team, with more than a decade of experience in solid state laser development and fabrication. This strong history of industrial experience, and close partnerships with renowned research laboratories, assures consistently reliable performance in the very latest laser technologies.

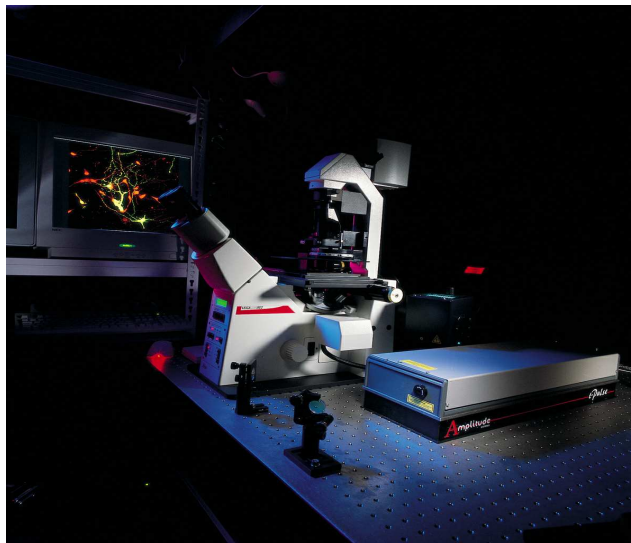
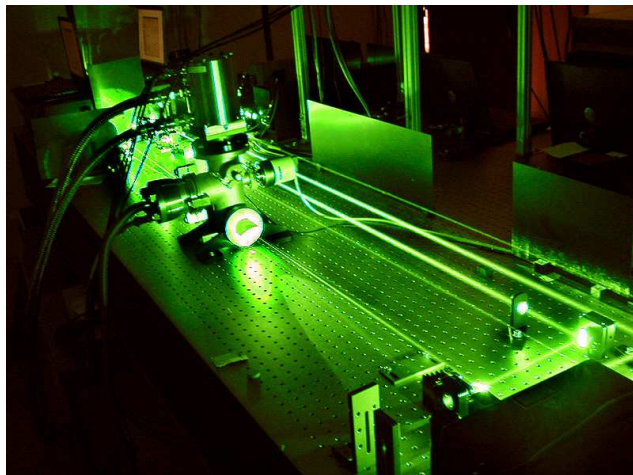
Pulsar lasers family covers a wide range of high power Titanium: Sapphire lasers: **10 Hz, 1 to 100 TW**, to **10 kHz, 1 mJ**, all with very short pulses **down to 30 fs** at 800 nm.

Pulsar 50 is a very compact CPA laser system. These models provide up to 15 mJ @ 10 Hz, with a very high quality beam. Overall dimensions are **1,2 x 1,2 m**.



15 mJ output @ 800 nm

In **Pulsar 100-200** models, the Titanium: Sapphire crystal of the last amplifier is **cryogenically** cooled ($\sim 150^{\circ}$ celcius). These cryogenic modules do not require daily nitrogen refilling. They have been developed through a direct collaboration with LOA-ENSTA, France. Thanks to this new technique, Amplitude Technologies is developing a laser system with more than **100 TW , 10 Hz @ 800 nm !!**



Amplitude Systemes is a sister company of Amplitude Technologies. The Company develops and manufactures diode pumped Ytterbium High Power femtosecond lasers.

t-Pulse, introduced in 2002, is still in 2003 the more powerful oscillator available on the market . “**1 Watt output, 50 MHz, 200 fs** “ made the **t-Pulse** an excellent tool for two-photon microscopy, medical imaging,...

Amplitude Systemes has introduced in 2003 a new amplified laser system, the **s-Pulse** model. Using the Chirped Pulse Amplification technique, **s-Pulse** provides up to **100 μ J, 10 kHz**, in a pulse duration below **400 fs**.

s-Pulse is very compact (**0,5 x 0,75 m**).

Compactness, reliability due to diode pumping technology, and excellent performance made the **s-Pulse** the ideal candidate for micro-machining applications.

