



## Press Release

### The Future of Ultrafast Lasers is Orange

**April 7<sup>th</sup> 2008:** Pro-Lite Technology LLP (Cranfield, England) has released the Tangerine from French laser specialists Amplitude Systems, the latest in a range of ultrafast lasers based upon direct diode pumping of ytterbium doped gain materials.

Tangerine is a high average power, ultrafast fibre laser. It benefits from Amplitude Systems' extensive experience in ultrafast laser technology and simultaneously offers a high average power and a high output energy for improved process productivity. Thanks to groundbreaking, patented advances in fibre design and amplifier technology, Tangerine is the first ultrafast fibre laser to offer high average power as well as high output energy. With its extremely high repetition rate (up to 30MHz) and excellent beam quality, Tangerine combines the high quality traditionally associated with ultrafast laser micro-machining with the processing speed required for industrial applications.

The Tangerine is specified as standard with 20W average power in either 10ps or 700fs versions and with 15W output combined with sub 100fs pulses. Pulse energies are up to 10µJ. It can also be customised and tailored to special requirements, making it the perfect system for research and industrial applications. Tangerine is built on a hermetically sealed monolithic housing for improved stability. It features advanced optical performance, a complete set of on-board diagnostics and simple control electronics. Tangerine is the ideal tool for ultrafast micro- and nano-scale machining, nonlinear optics studies, nanophotonics, and life science applications.

In recognition of its contribution to advancing the state-of the art in ultrafast lasers, the Tangerine has been awarded an honourable mention during the PHAST (PHotonics Applications, Systems and Technologies ) Laser Focus World innovation awards.

Web link: <http://www.pro-lite.co.uk/File/AMP%20Tangerine.pdf>

**About Pro-Lite:** Pro-Lite is a specialist distributor providing value-added service to the laser and optical radiation measurement communities in the UK and Ireland. Pro-Lite supplies lasers, laser safety eyewear, laser power and energy meters, precision opto-mechanics, as well as a complete spectrum of equipment for measuring optical radiation and the optical properties of materials. Pro-Lite also designed and delivers the popular "Practical Light & Colour Measurement" course in association with Birmingham-based Photonics Cluster (UK).

#### FOR FURTHER INFORMATION:

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