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Legend Elite Duo High Energy Amplifier



June 07, 2007

Dear Customer,

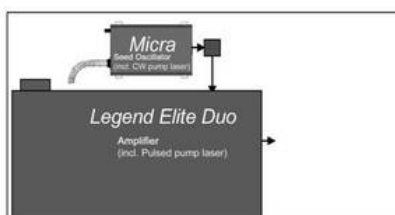
Please find attached the datasheets for our new **HIGH ENERGY** amplifier system, the **Legend Elite Duo?**, the NEW integrated ultrafast amplifier that delivers pulse energies **>6 mJ @ 1 kHz repetition rate!**

The Legend Elite Duo is a two-stage amplifier. The first stage features the same high-power regenerative amplifier design used in the Legend Elite introduced earlier this year at Photonics West. The second stage is a simple linear amplifier that uses a thermoelectrically (TE) cooled Ti:Sa crystal. Because **both amplifier stages are integrated into one box, the Legend Elite Duo is compact, easy to use and very stable.** And, while alternative amplifier systems require two separate, low-power pump lasers, the unique high-power **Evolution-HE** laser can pump both amplifier stages. Rated at **>45 mJ/pulse**, the integrated Evolution-HE from Coherent further enhances the Duo's simplicity and stability. The Legend Elite Duo, which can be seeded by Coherent's **Micra?** or **Mira?** or **Vitesse?** ultrafast oscillators, is especially useful for many power-hungry applications.

Examples of where high power provides faster and more precise results include pumping multiple tunable OPAs for pump-probe photochemistry, and in ultrafast spectroscopy techniques such as CARS and fluorescence up-conversion. This high power also allows the Legend Elite Duo to be used as a shared resource, where the output is split in order to power several separate experiments.

Note: adding our new **OPerA Solo** OPA with **INTEGRATED** wavelengths extension and separators, you can achieve extended tuning range (190-2600nm) in a very compact **3-Boxes configuration!**

Legend Elite & Legend Elite Duo = Better Ultrafast Every Day.



Typical Table Size: 120 x 240 cm



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Typical system lay-out showing Micra seed + Legend Elite Duo (table size: 120 x 240 cm)

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Please take some time to look at the attached data sheet. If you have any questions or would like further information, please do not hesitate to contact us.

Best Regards,

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