



## Newsletter May 2011

### Coherent at the "LASER World of PHOTONICS"

Dear customer,

Every 2 years, the laser community showcases its latest developments at the "LASER World of PHOTONICS" conference in Munich. Coherent will present a **variety of new products** and technologies within their Scientific and Commercial products for the Flat Panel, Instrumentation and Materials Processing markets.



Addressing **attosecond and EUV physics experiments**, the Legend Elite CEP is now available in versions with simple TE cooling of the Ti:S crystal, delivering 10 W (or optional 20 W) CEP stabilized output power at various repetition rates between 1 and 10 kHz. The growing demand for power necessary for many experiments, **from THz generation to pumping of high Energy OPAs**, is targeted with a new version of the Legend amplifier generating over 5 W from a simple package that includes the pump laser.

**A new OPO**, the Chameleon Compact OPO-Vis, includes an optional fully integrated second harmonic (SHG) accessory that provides automated frequency doubling of the OPO and the Chameleon laser output. This laser is intended for applications in multiphoton imaging, time-resolved spectroscopy, Terahertz studies and materials science.

Coherent introduces the VYPER with enhanced Line-Beam optics, a **novel excimer laser annealing (ELA) system** and LineBeam optics that enable volume production of low temperature poly-silicon (LTPS) for next generation flat panel displays. LTPS is the enabling technology for energy saving, light weight liquid crystal displays (LCD) and organic light-emitting diode (OLED) displays in advanced smart phones and tablet-PCs. With 1.2 kW laser power, the new VYPER excimer system including 750 mm LineBeam optics, enables mass production of LTPS displays using current large glass panel of Gen 5.5 and further to Gen 8.

Coherent expands its **family of smart lasers** offering true plug-and-play simplicity with seven new wavelengths based on OPSEL and diode technologies. Featuring integrated control electronics, the ultra-compact OBIS lasers offer OEM customers and endusers greater ease of integration and operation with form, fit and function being identical for all wavelengths. Applications include Life Sciences and metrology.

Coherent will present the HighLight 8000D, the first member of a family of free space diode lasers in a range of 2–8 kW. Customers within the Oil & Gas, Mining, Energy and Shipyard industries can expect **cladding rates of up to 8 kW power per hour** achieved with 8 kW of power, which is comparable to traditional submerged arc technology.

Due to the availability of small CO2 and fiber lasers, markets for small and compact laser cutting machines will emerge. Coherent will present the METABEAM 1000C the **world's smallest laser cutting system**, combining a working area of 1,25 m x 1,25 m with laser power of 1 kW. By using a CO2 laser, customers are able to cut metals but also organic materials and plastic using the same machine.

Coherent will present its **first fiber laser**, the HighLight 1000FL with an average power of 1 kW. The design of the laser will differentiate from competitive offerings by a smart OEM design, which simplifies integration in customer's machines. The customer will be in the position to maintain the laser in the field without attending extensive service training.

**We hope to have generated interest and would like to welcome you on our booth nr. 321 in hall C1. Our experienced staff appreciates discussing your requests and questions.**

**LASER World of PHOTONICS** 

MAY 23–26, 2011 | NEUE MESSE MÜNCHEN

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#### **About Coherent, Inc.**

Founded in 1966, Coherent, Inc. is a world leader in providing laser-based solutions to the commercial and scientific research markets.

To find out more about Coherent, visit our website at [www.coherent.com](http://www.coherent.com)

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