



# Coherent

Superior reliability & performance

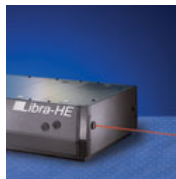
## Press Release - Libra HE



Editorial Contact: Steve Butcher  
530-889-5272  
For Release: 01/27/2009  
No. 1185

## Coherent Releases Libra? HE

### High Power One-Box Ultrafast Amplifier System



Santa Clara, California, January 27, 2009

The new **Libra? HE** from Coherent, Inc. (Santa Clara, CA) (Nasdaq: COHR) is a one-box ultrafast, Ti:Sapphire amplifier that delivers significantly higher pulse energy and shorter pulsewidth than earlier Libra models, while still offering the convenience and cost advantages associated with these popular laser systems. Specifically, the **Libra HE** produces pulse energies of over **3.5 mJ** at **1 kHz** and a choice of either **<50 fs** or **<100 fs** pulsewidth models. The system is offered with a standard pulse repetition rate of either 1 or 5 kHz, at **800 nm**.

Libra one-box amplifiers are extremely stable, integrated, turnkey systems containing a **Vitesse**, an industrial-grade, ultrafast oscillator and its **Verdi** pump laser, as well as the regenerative amplifier and its associated pulsed pump laser, the **Evolution**. The new **Libra HE** reaches higher pulse energies reliably and efficiently, and offers improved beam quality with **M2 <1.3** by using the company's next generation, **E-2 Engine™** regenerative amplifier design in concert with the high power capabilities of the Evolution pump platform. The integration of these high performance sub-systems ensures output **stability of <0.5% rms**.

The high power and short pulsewidth of **Libra HE** will be useful for several power-hungry applications in photochemistry and photophysics. Examples include pumping multiple tunable OPAs for pump probe experiments, and ultrafast spectroscopy techniques such as CARS and fluorescence upconversion.



# Coherent

Superior reliability & performance

Founded in 1966, Coherent, Inc. is a Russell 2000 Index company and a world leader in providing laser-based solutions to the commercial and scientific research markets. For more information about Coherent visit our website at [www.Coherent.com](http://www.Coherent.com).

Coherent Italia  
Via Borgese, 14  
20154 Milano  
Tel. +39 02 34 530 214  
Fax +39 02 34 934 165  
E-mail: [coherent.italia@coherent.com](mailto:coherent.italia@coherent.com)

**Questa pagina**