

4 juin 2009

## Newsletter June 2009

### VarioLas Family – Microprocessing Systems à la Carte

Dear user,

VarioLas mask imaging or line beam systems (Fig 1) are based on the reknown COMPexPro excimer laser series and are affordable tools for high quality large-area precision machining and surface annealing. Superior optics design, ruggedized beam mechanics and unmatched pulse-to-pulse stability are the key ingredients to each member of the VarioLas family which is available for UV wavelengths 193 nm, 248 nm and 308 nm.



Figure 1: VarioLas micromachining system with all options integrated

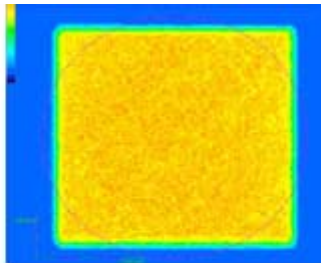


Figure 2: Homogenized, rectangular mask field of VarioLas family versions ECO and PRO



Figure 3: Audi R8 V10 model with all-LED headlamp (Source: Audi AG)

VarioLas mask imaging systems ECO and PRO provide micromachining resolutions of 30  $\mu\text{m}$  and 5  $\mu\text{m}$ , respectively, at a rectangular field size of 2 x 2 sqmm (Fig 2) and are ideal for UV-machining of materials such as polymers, semiconductors, ceramics or glasses and as well for Laser Lift-Off (LLO) tasks (Fig 3).

VarioLas SWEEP supports large-area processing with a homogeneous 50 x 0.6 sqmm line beam for scanning applications such as wafer dopant activation or surface annealing.

Each of the VarioLas versions can be tailored to best match the individual requirements. A variety of safety features such as automated beam shutter and interlock circuit or safety class 1 beam encapsulation can be added to the basic design together with convenient control modules such as on-sample fluence control, motorized substrate stage as well as a collinear camera observation unit enabling live monitoring of ablation results.

VarioLas family offers a choice of integration levels from pure beam projection train providing a maximum degree of customization to a fully automated safety class 1 microprocessing workstation.

For technical questions please contact:

Dr. Ralph Delmdahl  
Telefon +49 5516938-397  
E-Mail: [ralph.delmdahl@coherent.com](mailto:ralph.delmdahl@coherent.com)

More info: [www.coherent.com/uvopticalsystem](http://www.coherent.com/uvopticalsystem)

\*\*\*

#### 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.fr](http://www.coherent.fr)  
or call +33 1 69 85 51 45.



Visit Coherent, a world leader in providing laser-based solutions to the commercial and scientific research markets with the largest Laser-Portfolio

### Superior Reliability & Performance

Coherent France, Domaine Technologique de Saclay – 4 rue René Razel – Bâtiment Azur  
91892 Orsay cedex

Tel : 01 69 85 51 45 – Fax : 01 69 85 51 46

Si vous souhaitez ne plus recevoir nos lettres d'informations, [cliquez ici](#)