

Imagine Optic launches - ILAO™ (Intense Laser Adaptive Optics)

Munich, Germany (World of Photonics) and Orsay France, May 23, 2011 – As part of ongoing commitment to provide its customers with the most technologically advanced products for adaptive optics, Imagine Optic is proud to introduce the latest addition to its product line – the ILAO (Intense Laser Adaptive Optics) deformable mirror.

“ILAO was developed, in conjunction with and based on ISP System’s patented technology, to respond to unmet needs in the domain of intense and ultra-high intensity lasers, such as those being used defense and high-energy physics research” notes Imagine Optic’s CEO Samuel Bucourt. “When used with our HASO3 Shack-Hartmann wavefront sensors and CASAO adaptive optics command & control software, ILAO becomes the wavefront correction component of an extremely powerful solution. We expect to see strong demand from leading intense laser facilities over the next year”

“ILAO presents technical advantages that other deformable mirrors cannot match. First and foremost, depending on the customer’s requirements, pupil diameters of up to 350 mm can be provided. Customers equally can choose reflective membranes with 100% dielectric coatings that have a high damage threshold as well as standard metallic coatings. The membranes can be quickly and easily swapped-out, making ILAO an extremely cost effective device as well” states Imagine Optic’s CTO Xavier Levecq. “In comparison to other deformable mirrors, ILAO is capable of correcting complex aberrations up to several tens of microns in magnitude with a precision of 20 nm and without the print-through effect that can cause unwanted hotspots. It can equally function at angles of incidence up to 45°. Another unique point is that, once the desired mirror shape has been achieved, ILAO can be disconnected from its power source all the while maintaining its shape which eliminates potential drifting due to internal heat generated by the device.”

For more information about ILAO, visit www.imagine-optic.com/ILAO

Imagine Optic will be present at Laser World of Photonics in Munich from May 23-26 on stand 121 in Hall C1. Members of the press are invited to contact Mark Zacharria at mark.zacharria@imagine-optic.com For more product information, please visit www.imagine-optic.com or call +33 (0)1 86 64 15 60.

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More about Imagine Optic

Imagine Optic is Europe’s foremost provider of high-precision Shack-Hartmann wavefront sensors and adaptive optics products. The Company was founded in Orsay France in 1996 to respond to the need for high-precision/wide-dynamic range wavefront metrology and adaptive optics products. Primary applications include high-power lasers, life-sciences microscopy, optical characterization and industrial quality control. Imagine Optic currently employs over 20 qualified professionals in a variety of fields and is represented internationally by its extensive distributor network. In addition to its French headquarters, the company additionally has offices in Barcelona, Boston, San Francisco and, most recently, Shanghai.