

ALPAO confirms its position as world leader in adaptive optics with a major industrial order for microscopy

Grenoble (France) – July 12, 2023 – ALPAO confirms its position as world leader in the design and manufacturing of deformable mirrors and adaptive optics systems with the signature of a major industrial order from an American customer for specific optical microscopy systems.

ALPAO, world leader in Adaptive Optics, has signed a contract to supply a US customer with more than a dozen deformable mirrors, which will then be integrated into specific optical microscopy systems. Specifically, ALPAO's deformable mirrors, designed and manufactured in Grenoble (France), will correct optical aberrations and thus improve the resolution of microscopy platform images for biological research.

One of the main challenges in this type of system is to rapidly obtain an image with optimum resolution and contrast. These high-definition images make it possible to observe smaller structures or even invisible objects with standard microscopy techniques.

ALPAO mirrors have been selected for their cutting-edge performance, including the amplitude of deformation of its membrane which is decisive in obtaining these results. What's more, the mirrors are equipped with a trigger to synchronize mirror movements with an external source.



"Fluorescence microscopy is an innovative technique for observing various objects, substances or organism samples in the field of research and biology. Involved since our creation in supporting research with our products, we are delighted to have signed today this contract. Our deformable mirrors will provide the highest level of performances and optical quality required to obtain high-precision images. said Piero BRUNO, ALPAO's Sales and Marketing Director. This major industrial order in the U.S. confirms our leading position and the quality of our products in the very demanding adaptive optics sector."

Professor Eric BETZIG, renowned for his work on microscopy and co-winner of the 2014 Nobel Prize in Chemistry, has stated in the past that "adaptive optics is the future of microscopy". This order marks a major step towards the development of industrial markets in this field.

About ALPAO

The aim of ALPAO, leader in optical wavefront control, is to revolutionize optics by removing aberrations. ALPAO has been designing and marketing a full range of adaptive optical products for research and industry since 2008. ALPAO markets deformable mirrors, wavefront sensors and software. ALPAO products are tailor-made for various applications such as astronomy, ophthalmology, microscopy, wireless optical communications and laser technologies.

With over 10 years of experience in adaptive optics, ALPAO deformable mirrors offer large strokes, high dynamic motion, high resolution images and very good optical quality. ALPAO is an international company with customers over 4 continents in more than 20 countries. Over 90% of its turnover comes from export. ALPAO is also involved in a specific French program to build with other companies, from various economic fields, a business climate convention.

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