

Leading the light



WORLDWIDE LEADER IN ADAPTIVE OPTICS MADE IN THE FRENCH ALPS

ALPAO at a glance

Since 2008, ALPAO has been revolutionizing optics and photonics through continuous innovation in wavefront correction techniques. The company designs and manufactures the most complete range of Adaptive Optics (AO) systems and components for use in research and industry. These include Deformable Mirrors, Wavefront Sensors and control software including Real-Time Computer.

All our products can be tailor-made to meet the most challenging customer expectations.

ALPAO is constantly contributing to a wide variety of scientific research activities, which includes winning two Nobel Prizes.





What is Adaptive Optics?

Adaptive Optics is a unique technology used to improve the performance of optical systems. The effect of incoming wavefront distortions can be corrected via a deformable mirror to compensate for the most common optical aberrations. Invented for astronomy, Adaptive Optics has come a long way and is now a mature industrial product, used in a wide range of applications:

- Astronomy
- Defence
- Laser
- Free Space Optical
 Communication
- Quantum Key Distribution
- Microelectronics
- Microscopy
- Space

- Space Situational Awareness
- Vision Science
- □ 3D Printing

State-of-the-art products

ALPAO products allow our customers to dramatically improve the performance of their optical system in a quick and easy manner by correcting wavefront distortion due to, for example, atmospheric turbulence in satellite communication, the lens of the human eye in retina imaging or sample-induced aberrations in microscopy.



Main features:

- □ Large deformation
- Highly dynamic motion
- □ High sensitivity
- Unrivaled optical quality
- Quick and easy Zernike correction
- Intuitive and flexible API
- Real time AO loop control
- Robust and reliable

Some achievements

Astronomy



Credits: Canada-France-Hawaii telescope & ESO/Y. Beletsky

Microscopy





Credits: Kai Wang, Betzig Lab., Janelia Farm, HHMI

Vision Science



Credits: Dubra Lab at Medical College of Wisconsin



Credits: Patrick S. Salter & Martin J. Booth

VISION

The pursuit of knowledge and understanding of the world requires a precise vision of reality.

AMBITION

ALPAO aspires to become the leading player in the design and manufacturing of optical correction components and systems.

MISSION

Our mission is to support our customers in achieving their optical performance and precision goals.



727, rue Aristide Bergès 38330 Montbonnot - France

www.alpao.com contact@alpao.com marketing@alpao.fr

