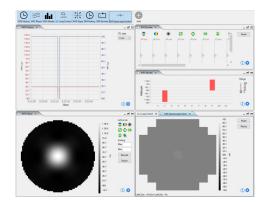


**ALPAO AO KIT** is an AO system composed of an **ALPAO DM**, an **ALPAO SH-WFS** and **ACE** software or **ACE** fast Real Time Computer. It offers over 100 configurations. These components are designed to work together and a system level test will be offered.







## **Key features**

# KIT FOR EVERY APPLICATIONS

Athmospheric correction, ophtalmology, microscopy...

# CUSTOMIZE YOUR OWN KIT

Select your DM, WFS and software over more than 100 choices

#### **COST EFFICIENT**

Get a tested system for the price of the components



## **ADAPTIVE OPTICS KIT**



#### KIT FOR EVERY APPLICATION

**ALPAO** kits allow to choose from over 100 possible configurations. Pick up the right one depending on the performances you need: complexity and speed of your aberrations, spectral range and number of photons available.

ALPAO DM97-15 associated with SH-CMOS WFS and ACE is an excellent cost-efficient kit. It performs at a few tens Hertz correction ability up to ~60 Zernike order. Because of ACE flexibility, you will easily implement it into your experiment and override your aberrations.

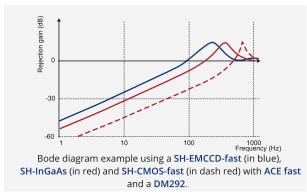


#### **SPEED & SENSITIVITY PERFORMANCES**

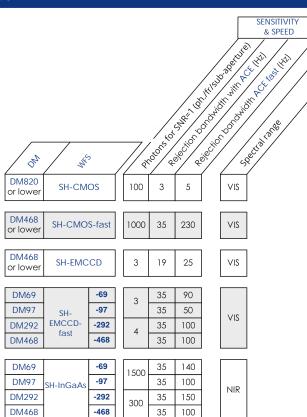
Choose the correct **ALPAO** kit depending on your application:

- the shape of your aberrations drives the number of actuators,
- the temporal fluctuation of your aberrations and the number of photons available drive the WFS and RTC choice.





#### Ask for advanced simulations!

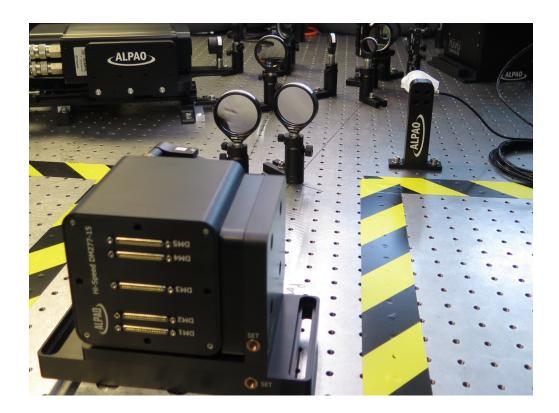


#### **MORE INFORMATION**

- www.alpao.com
- contact@alpao.fr
- +33 476 890 965



**ALPAO Adaptive Optics System (AOS)** are tailor-made systems for your applications and needs. They are based on more than twelve years of experience in AO systems for many applications.



# **Key features**

#### **READY-TO-USE**

All components included and assembled

#### **CUSTOMER-FOCUSED**

Dedicated to your application and based on years of experience

### **FAST**

Close the AO loop at up to 5kHz with a rejection bandwidth up to 230Hz



### ADAPTIVE OPTICS SYSTEM



#### PLUG AND PLAY AO SYSTEM FOR MICROSCOPY

Correction of the optical aberrations (from sample, index mismatch and microscope) becomes straight forward with the ALPAO plug-and-play AO system for microscopy. A typical system includes:

- ALPAO DM97-15, SH-CMOS WFS and ACE
- an embedded calibration unit
- · an embedded pupil imaging camera

**ALPAO** plug-and-play systems for microscopy are available for most applications. It includes:

- Multi-photon microscopy
- Confocal microscopy
- PALM and STORM
- Fluorescence microscopy



Based on a robust standard design, **ALPAO** is able to provide a system perfectly matching to your microscope at a very competitive price.

Contact us for one-to-one guidance and technical support.

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#### STATE-OF-THE-ART SYSTEM FOR LGS ATMOSPHERIC COMPENSATION

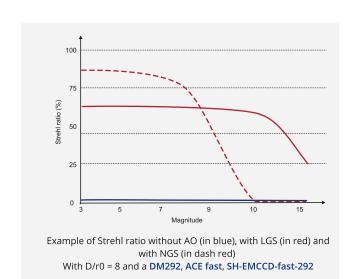
ALPAO can provide state-of-the-art AO systems for atmospheric turbulence compensation. Natural Guide Star (NGS) or Laser Guide Star (LGS) configuration can be provided.

Such systems typically include:

- ALPAO DM
- ALPAO fast WFS
- ALPAO ACE fast (RTC)
- a calibration unit
- a Tip-Tilt Mirror (TTM)
- an object Tip-Tilt sensor
- a Focus Stage Control (FCS) for the LGS
- a LGS-TT
- the science camera or instrument
- a storage device

#### Typical applications are:

- Astronomy
- Debris and satellite imaging
- Free Space Optical (FSO) communication
- Laser precompensation of atmospheric aberrations



### **MORE INFORMATION**

www.alpao.com

▶ contact@alpao.fr

**+33 476 890 965**