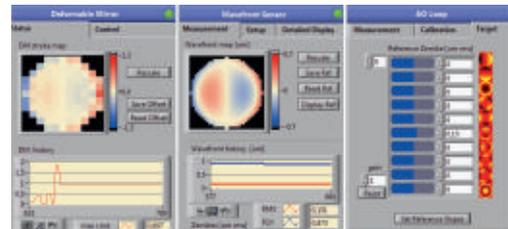


ALPAO Core Engine (ACE) is a powerful software architecture for adaptive optics. Using ACE, you are able to develop quickly and efficiently your own adaptive optics instruments.

Graphical User Interface (GUI)

Quick start and easily tune your parameters



Matlab® level

Flexible and easily customizable to your needs

aceDM

aceWFS

aceCam

```
>dm.ApplyValues(coma) >image(wfs.GetPhase) >image(cam.GetImage)
>disp('Write your own script');
```

Hardware level

Control all your hardware with a unique and configurable in solution



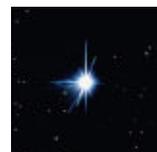
Deformable Mirror

Wavefront Sensor

Camera

KEY FEATURES:

- **Ease-of-use:**
User friendly graphical interface.
Customize your AO system to your needs.
- **Open, flexible and ergonomic architecture:**
Object-oriented modular architecture.
- **Performances:**
Close the AO loop at up to 800 Hz.
Access to all data in real time.



▪ EASE-OF-USE

ACE user friendly graphical interface allows fine tuning and to close the loop in one click. ACE is also easy to learn because of its convenient built-in documentation, which includes realistic examples.

With ACE, you can easily optimize your AO system to your needs. Automated experiments and advanced control set-ups are easy to develop. It is also possible to implement use of adaptive optics without wavefront sensors and to correct for quasi-static optical aberrations.

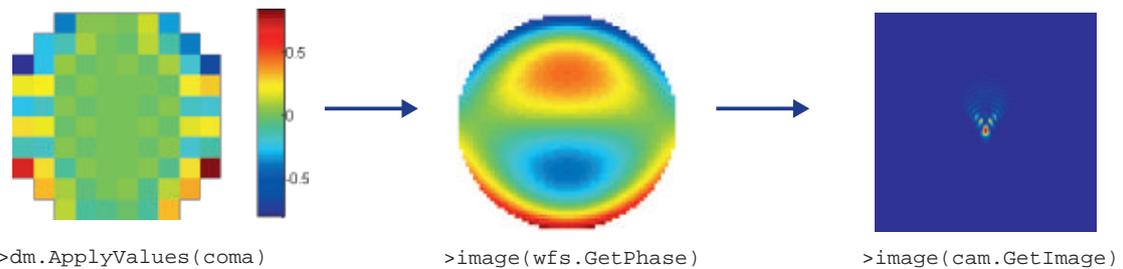


Example or custom experiments.

▪ OPEN, FLEXIBLE AND ERGONOMIC ARCHITECTURE

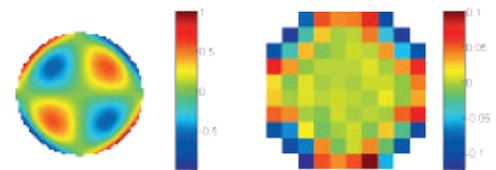
ACE is an object-oriented toolbox for MATLAB® that allows access to all your optoelectronic devices using built-in functions.

Flexibility is the key that allows ACE to adapt for your application. With ACE, you are certain the system is tailored to your application.



▪ PERFORMANCES

Performance is not sacrificed for ease-of-use. With ACE, it is possible to close the AO loop at up to 800 Hz (depending on your hardware configuration).



Custom figure generated and exported in a graphic file.

You are able to process your data in real-time and export the results, including displays and values, to a wide choice of file formats. ASCII, .xls, .tif, .jpg are among the many file options.

▪ OFFLINE SIMULATOR

ACE offline simulator is provided with the ACE. The simulator uses the same commands and graphical user interface. It allows you to develop scripts, user interfaces, and applications even when you are far from your optical set-up. This reduces the time needed for including adaptive optics in your instrument.

Try it now for free! Or download our tutorials !

Microsoft Windows, Linux, MathWorks, Labview, are registered trademarks.
 Recommended configuration: 4 Gb RAM, 100 MB disk space, MATLAB® R2009b or higher.
 MATLAB® is not included in ACE and need to be purchased separately.
 ALPAO reserves right to change this document at any time without notice and disclaims liability for editorial pictorial or typographical errors

