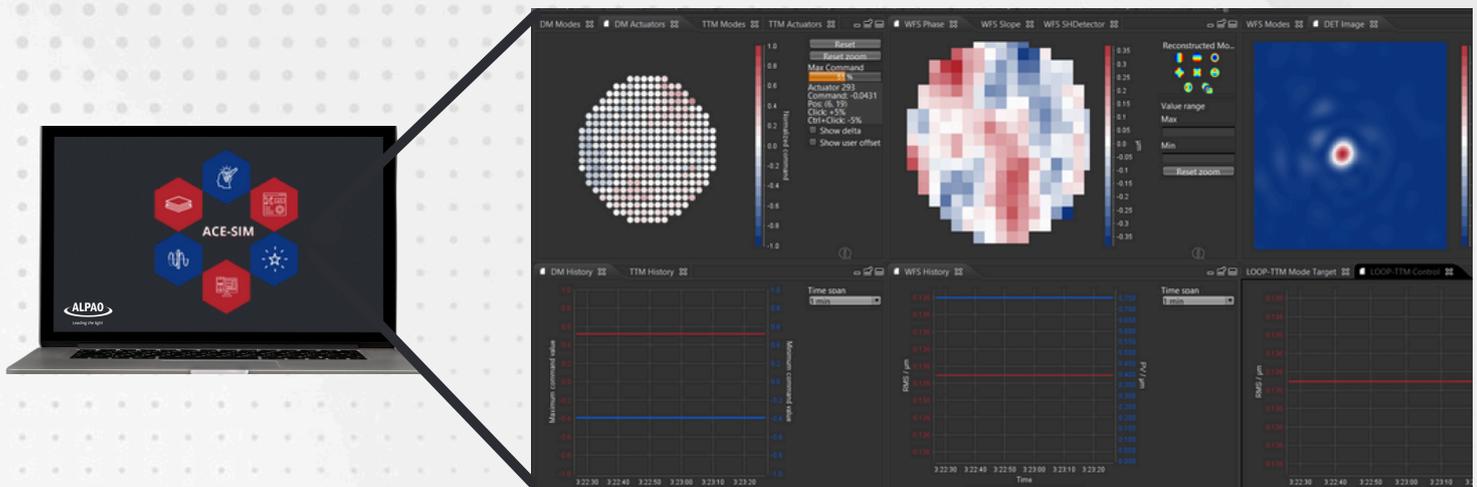**ALPAO**

PRELIMINARY TECHNICAL LEAFLET

The ACE-SIM software module allows a generic simulation of Adaptive Optics based on Matlab : fiber coupling metric, overall loss budget, bit rate after fiber coupling...
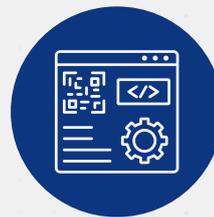Scalable, the ACE-SIM is also configurable by the user itself!
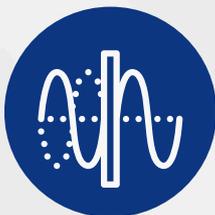

Key features

OBJECT BASED

FULL CUSTOMISABLE

MATLAB BASED

PHASE AND INTENSITY INPUTS

EASY TO USE WITH THIRD PARTY HARWARE AND RTC

EXCELLENT FIT WITH REAL CASES

Technical Specifications

Available in 2 distincts configurations :
- **Basic**
- **Advanced**

	ACE-SIM Basic	ACE-SIM Advanced
STANDARD		
ALPAO library	✔	✔
GUI	✔	✔
Functionality creation	✔	✔
Error budget	✘	✔
WAVEFRONT CORRECTOR		
Load influence function + import	Perfect DM - static	DM measured with imperfections (creep and dynamic responses)
SLM	✘	✔
DISTURBANCES		
Phase field : •Import •Generation	✔ ✘	✔ ✔
APPLICATIONS		
FSO – QKD – SSA (atmospheric turbulences)	✘	✔
Ophthalmology	✘	✔

Our Company

Since 2008, ALPAO designs and manufactures a complete range of adaptive optics products for use in research and industry. ALPAO understands your needs and provides you with the best solutions: deformable mirrors, wavefront sensors and software for your application. Our products are tailor-made for various applications such as astronomy, ophthalmology, microscopy, optical and quantum communications, space and laser applications.

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