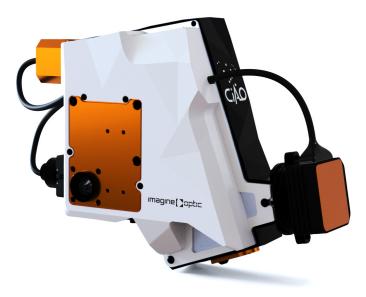
CIAO VIS Improve your telescope resolution

Adaptive Optics platform **Small, simple & robust**

Up to 1kHz closed loop Simply interfaced to all telescopes Compatible with extended sources



Preliminary Datasheet



CIAO VIS +

CIAO is a compact innovative adaptive optics add-on that enhances your telescope's performance.

We customize for our users, so please contact us to discuss how CIAO could benefit your application !

APPLICATIONS

+ High resolution imaging on planets or solar surface thanks to its compatibility with extended source

- + Stellar interferometry
- + High performance spectrometry
- + Space Situational Awareness (SSA)
- + Laser guide star enhancement

FEATURES

- + Includes 13x13 microlenses high performance HASO wavefront sensor optimized for low flux & high speed
- + Corrects up to 40 modes thanks to piezo-electric deformable mirror
- + Facilitates access to beam-splitter allowing to choose one adapted to your needs (dichroic function or split ratio)
- + Integrates a source, making calbration & auto-check easier
- + Is optimized for f/10 telescopes, but customization available for any f#
- + Includes a high dynamic tip-tilt to correct telescopes mount pointing errors
- + Can include bypass (optional)



SPECIFICATIONS*

CIAO

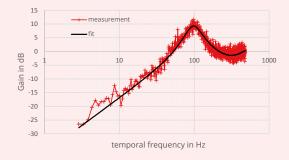
HASO wavefront sensor nb of microlenses HASO accuracy HASO repeatability @550nm @200ph/microlens Spectral range Deformable mirror Max closed loop frequency BeamSplitter Closed loop average delay Internal source Switch from telescope to internal source Max point source magnitude on a 500mm dia telescope Rejection bandwidth cut-off frequency Output f# Bypass f# Dimension Weight Cable length to PC

Compatible telescopes

Diameter Input f# Mechanical interface Pointing accuracy 13x13 6nm RMS 30nm RMS 400-1100nm (White light or monochromatic) 40 piezo actuators 950Hz 50-50 (other split ratio or dichroic available) < 1.7 ms 520nm motorized 5 ≥ 45Hz same as telescope same as telescope 315x315x127mm³ 3kg 2m (extenders available, optional)

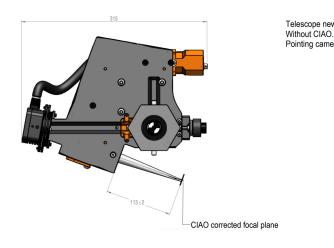
from 200mm to 1m f/9 to f/12 (other f# available with custom) T2 (M42x0.75mm) ± 1arcmin

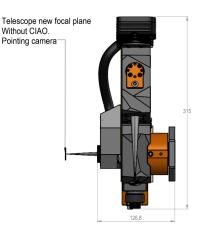
CIAO VIS rejection bandwidth, f=980Hz, g=0.45 Analytical fit with a delay of 1.6ms cut-off@0dB : 49Hz

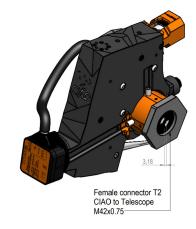


*Subject to changes without further notice

DIMENSIONS (mm)







SOFTWARE

WAVESKY

Wavesky was made with a RunTime approach, meaning it has no GUI. When connected via TCP-IP, you can setup the server, drive the loop and make diagnostics. It includes C++ and Python client examples and runs under Win10 and Win11 environment.

MOUNTING

Below is an example of CIAO mounted on a C11 telescope.



Preliminary Datasheet

CONTACT US

Imagine Optic Headquarters 18, rue Charles de Gaulle 91400 ORSAY · France

Phone +33 (0)1 64 86 15 60 sales@imagine-optic.com www.imagine-optic.com

