





HASO FIRST +

The HASO Shack-Hartmann Wavefront Sensor optimized for one wavelength, the one you really need.

The HASO FIRST is now faster and has an improved spatial resolution while keeping the same accuracy and optimized price point.



Compatible with the Optical Engineer Companion modular system: easily combine the accessories you need

APPLICATIONS

Successfully used in the most demanding applications in optical metrology, microscopy, and laser diagnostics, the HASO FIRST performs multiple functions :

- + Quantify the aberrations of an optical system
- + Align optical systems to ensure that it works optimally
- + Predict the performance of optical systems in terms of focusing capability or imaging quality
- + Quantify the effects of temperature and gravity on system performance
- + Verify that the optics comply with specifications
- + Drive a wavefront corrector to correct for system aberrations
- + Check whether the optical mount overly distorts the optics

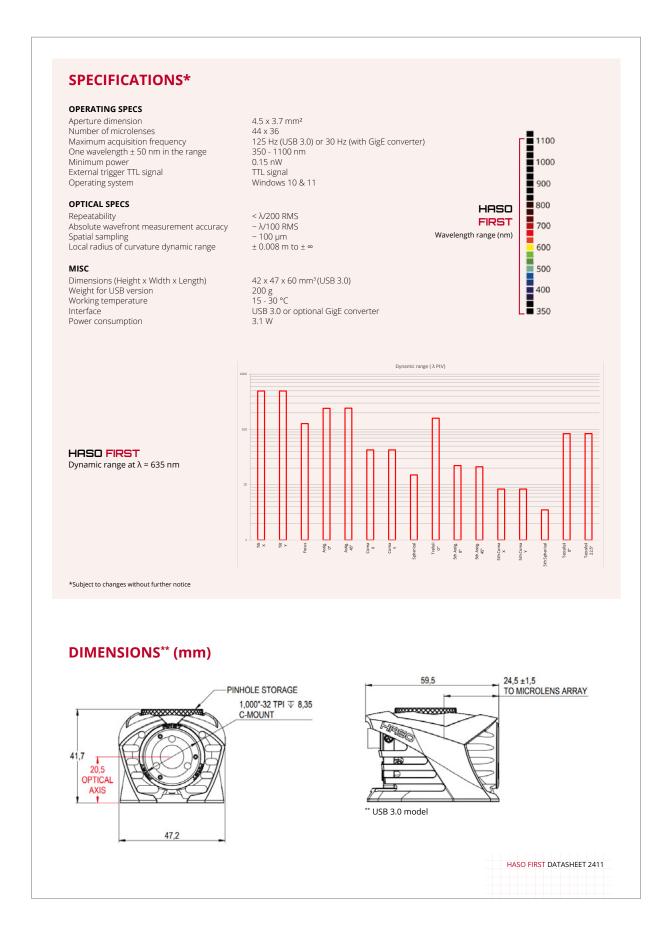
FEATURES

- + Beam collimation with an accuracy better than 200 m radius of curvature
- + A 20 mm focal length measurement with a sensitivity of 1 μ m RMS
- + Direct wavefront acquisition of converging and diverging F/5 beams with an accuracy of $\lambda/100$ RMS including astigmatism and high-order aberrations
- + Control and adjustment of axial laser beam deviation better than 5 μ rad RMS
- \pm ± 50 nm calibration bandwidth or extended wavelength range optional: \pm 150nm around the calibration wavelength



HASO FIRST DATASHEET 2411







SOFTWARE

WAVEVIEW™ Metrology Software

WAVEVIEW™ is the most advanced wavefront measurement and analysis software.

It offers more than 150 features and tools optimized for a wide range of highly demanding applications.

Options:

- + Extensions for PSF, MTF, M² and Strehl ratio
- + Optional SDK in C/C++, LabVIEW and Python

WAVETUNE™ Adaptive Optics Software

WAVETUNETM is a unique software that seamlessly combines wavefront measurement and correction features with extensive instrument diagnostics. It is perfectly adapted to our HASO wavefront sensors, ILAO STAR, MIRAO and mu-DM deformable mirrors, as well as to a wide range of active components.

Options:

+ Optional SDK in C/C++, LabVIEW and Python

