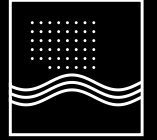


ORIGINE Labs



Astro-Technica

Origine Labs OL-SH16P

Wavefront Sensor for Astronomy

A modular Shack-Hartmann wavefront sensor designed for amateur and semi-professional astronomy
 Engineered for precise atmospheric turbulence and seeing monitoring, measurement, and characterization
 Supports optical diagnostics, Strehl estimation, aberration mapping, and telescope collimation

Main Features

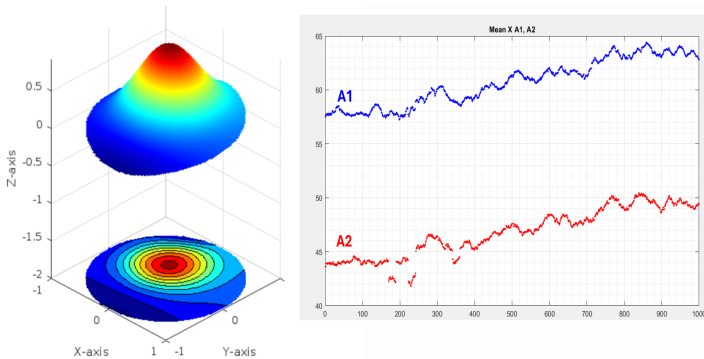
- Interchangeable Lenslet Array
Low Resolution/High Resolution
- Interchangeable Collimation Optics
to match the Telescope f/d
- FPGA-accelerated for high temporal resolution
- Ultra Precise time-stamping
- External triggering of other device
- Sub-micron centroid accuracy
- Interface High Speed USB3, BLE, WiFi
- ASCOM Compatible, internal battery no cables
- Compatible with most telescopes
- Supports multi-sensor synchronization
across multiple telescopes
- Full Zernike decomposition done externally on
software

Technical Characteristics

Specifications	
MicroLens Array	16 × 16 grid
Pitch	150 μm (typ.)
Wavelength Range	400–700 nm
Sensor Resolution	2–5 MP depending on model
Interface	USB 3.0
Software	Origine Labs Wavefront Suite

Reconstructed Waveform

Centroid Displacement



Centroid location algorithm test on real star

