
96-CHANNEL DEFORMABLE MIRROR WITH EMBEDDED ELECTRONICS

Features

- Number of actuators: 96
- Continuous surface Al-coated membrane
- Clear aperture: 1" (25.4 mm)
- Maximum surface retardation: 19 μm
- Build-in DAC and HV amplifier
- Controlled and powered by single USB2.0 interface
- Maximum refresh rate: 2 kHz
- Digital-to-analog (DAC) converter resolution: 16 bit
- Initial surface flatness (peak-to-valley, less than): 150 nm
- Current consumption (5V): 200 mA
- Full software support in end-user applications (FrontSurfer and BeamTuner)
- Developer support through flexible software development kit (SDK)
- Software bindings for C/C++, Python, MATLAB
- Rugged design of enclosure
- Small size (only 90×90×30 mm)
- Weight 0.45 kg

Applications

Aberration correction and light phase manipulation in the following areas.

- Microscopy
- Ophthalmology
- Laser systems
- Free-space communication
- Education and research
- Small telescope astronomy

