



The Boresight Alignment Tool is an optical benchtop or self-standing tool used to precisely co-align instruments with multiple free-space optical inputs or outputs. It consists of a large parabolic mirror and an optical fiber mounted at the mirror's focal point.

A single-mode or multi-mode fiber is used to generate either a Gaussian beam or a beam with spatial intensity fluctuations (simulating optical turbulence). In addition, a large precisely collimated optical beam can be easily created for general lab use including interferometric.

FEATURES

- ◆ Height adjustable
- ◆ Mirror is solidly attached and held in a sling to ensure stress-free mounting
- ◆ Solid three-point tip/tilt adjustability
- ◆ 15" F/4.5 mirror (customizable)
- ◆ Wavefront better than $\lambda/4$ peak-valley at 633nm
- ◆ Protected Aluminum coating (customizable)

BENEFITS

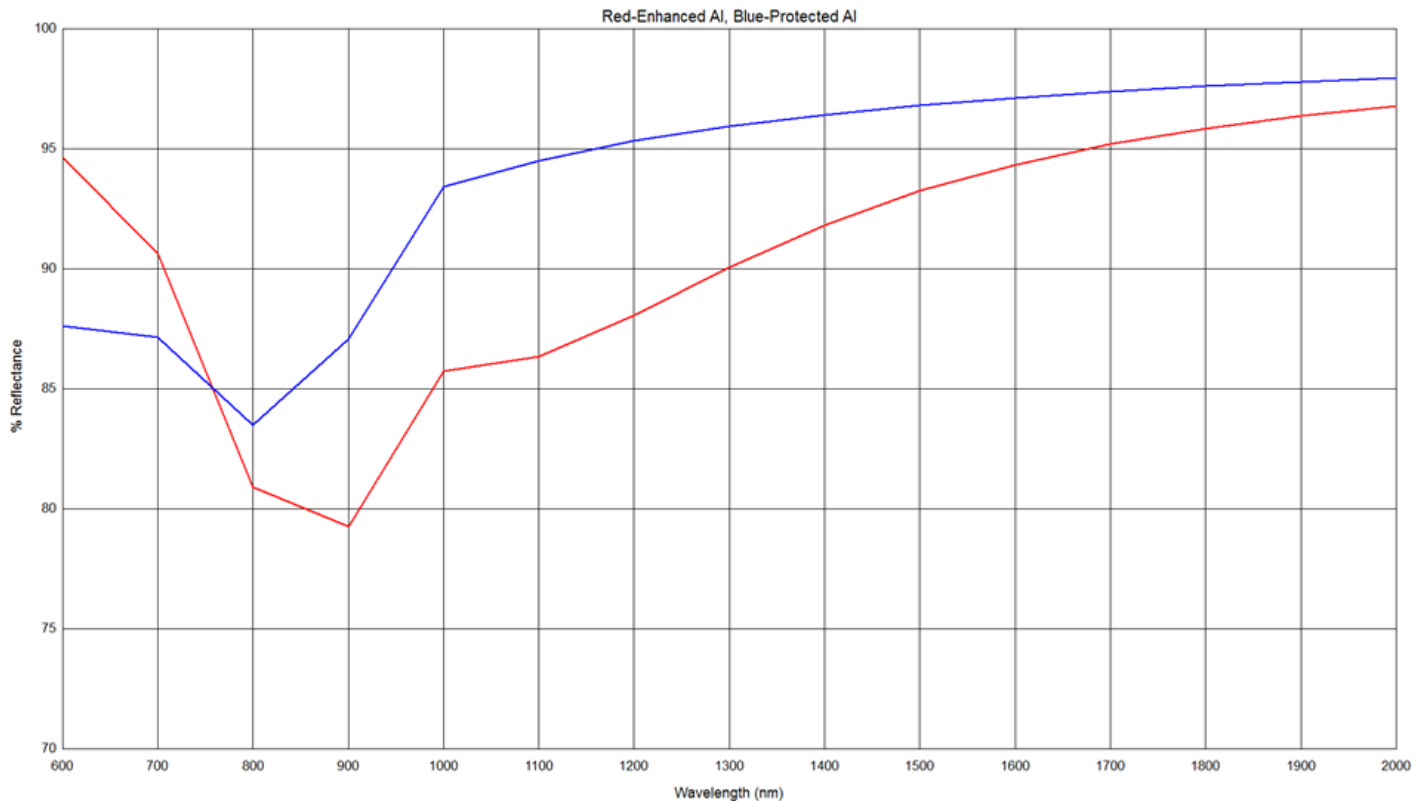
- ◆ Generates a large 15" collimated beam
- ◆ Used to co-align multiple input and/or output apertures
- ◆ Easy self-alignment utilizes an included shearing interferometer for precise beam collimation
- ◆ Can be combined with a second similar instrument, connected by single-mode or multi-mode fiber to create an optical range simulator
- ◆ Height adjustable single mode fiber adapter used to launch/collect light (connector type selectable)



3-point tip/tilt adjustment knobs

Model	EBAI-15-4.5
Mirror Diameter	15"
Mirror Focal Length	68.3"
Mirror F/#	4.5
Mirror Mount Dimensions (approximate)	21" width x 6" depth x 21"
Wavelength Band (Transmission >90%)	1000—2000 nm

All specifications can be customized.



Mirror Transmission with Protected Aluminum coating (blue curve)