BigtreeLabs

NanoForce

Interferometer

Laser Wavelength: 650nm

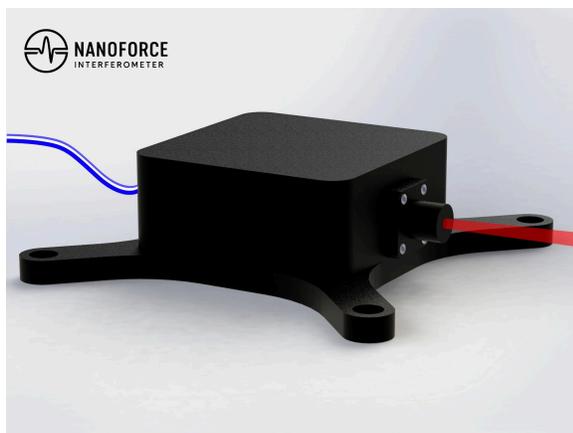**Beam Divergence:**   ~100 mRad / ~5°

Max Beam Diameter: 3nm

Working Distance: 10mm to 500mm

Linear Resolution: 325nm, 0.1nm (With Electronics Data Acquisition Modules and Bundled Software)

Laser Power: ~500uW

Mounting Options :   Kinematics Mount , Breadboard Mount, 1" & 0.5" optics mount.

Applications

- Sensor Development
- High Precision Valve Development
- MEMS Development
- Flexure Development
- Piezo Actuator Development
- CNC Equipment Stage Calibration
- ElectroMagnetic/ElectroMechanical translation stage calibrations
- Microscopy
- Thermal Expansion Studies
- Vibration Dynamics Studies

Packages Offered

1. NanoForce Optics Suite
    Use it like a classical Michelson interferometer with the least alignment effort.

2. NanoForce Essential Suite
    Even the tiniest motion in the measurement arm is detected by the backend electronics from the twin photo detectors on the interferometer. The data is readable via USB or SPI buses. Specifically tailored for Industrial applications and OEM Integrations.

3. NanoForce Professional Suite
    A complete kit of optical and electronics Hardware and Software tools for displacement, vibration or frequency acquisition and analysis.

    -    for trial and purchase; contact our Sales Team