

Model PIM # Precision Interferometer parts P-IM 01-11
Model: MIM # Michelson Interferometer parts P-IM 01-08

P-IM-01: Instrument Base
P-IM-02: Mirror with Kinematic tilt and linear movement by micrometer
P-IM-03: Adjustable Mirror with Kinematic tilt
P-IM-04: Beamsplitter & Compensator Assembly
P-IM-05: Viewing Telescope
P-IM-06: Pin hole collimator
P-IM-07: Diffuser glass
P-IM-08: Kinematic Laser Diode Mount (12 mm diameter)
P-IM-09: Equilateral prism and holding table
P-IM-10: Fabry-Perot Etalon Kinematic Assembly
P-IM-11 : Air Chamber with Pressure Gauge

Special Features:

Optics: 25 mm diameter (Clear Aperture:20mm), Flatness to $\lambda/6$ @ 633nm.
Linear movement of Mirror: Precise movement 0.6 Microns
Adjustable Mirror: 5 mm linear travel and movement along a curve for inspection of prism
Michelson Interferometer could be upgraded for use as Fabry-Perot or Twyman-Green Interferometers.

Optional Accessories:

P-IM-11: Air Chamber with Pressure Gauge is optional for Michelson Interferometer
P-IM-12: Laser Diode 3 mW with power supply.
P-IM-13: He-Ne Laser 1 mW with power supply.
P-IM-14: Sodium Vapour Lamp 35 watts with power supply.

About us:

Custom built manufacturer of Plano Optics: Prisms, Windows, Flats & Mirrors.
Pioneer in Prism production for high tolerances by Optical Contacting Technique in India
Capable to produce 5 mm to 300 mm Optics within 2 Arc seconds tolerances & upto $\lambda/10$ flatness.
In-house capabilities to offer coated Optics – Antireflection Coatings & Aluminum Reflective Coatings.

- 1991- Established Optics manufacturing facility.
- 1994- Developed Laser Fizeau Interferometer
- 1996- Established Optical Contacting technique for production of Prisms
- 2002- Developed Autocollimator/Angle Dekkor for Machine Tool Industry
- 2004- Manufacture of Monochromatic Light Source
- 2005- Manufacture of Michelson Interferometer
- 2005- Introduced double-side polishing machine for achieving < 1 sec parallelism.
- 2005- Developed Interference Autocollimator
- 2006- Participated in Hannover Fair, Germany.
- 2006- Incorporated Software evaluation to certify Flatness of Optical Flats
- 2007- Developed Alignment Autocollimator
- 2007- Participated in MTA Exhibition, Singapore
- 2008- Designed & Developed Optical Head for Alignment application

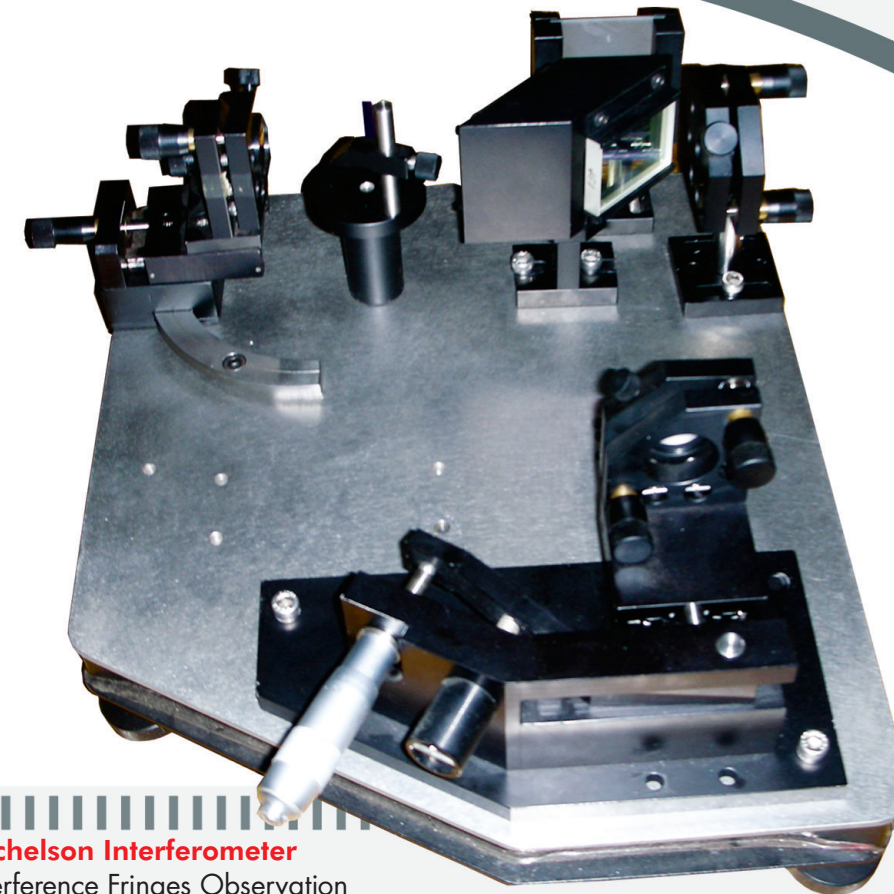


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PRECISION INTERFEROMETER

Model PIM
Michelson, Twyman-Green & Fabry-Perot



Michelson Interferometer

Interference Fringes Observation
Study of Equal Inclination, Equal Thickness & White Light Interference Fringes
Measurement of Wavelength of the Sodium D-lines
Measurement of Wavelength Separation of Sodium D-lines
Study of Refractive Index of gases at varying pressure
The Refractive Index of Transparency Slide

Fabry-Perot Interferometer

The Multi-beam Interference
Measurement of the Wavelength of He-Ne Laser
Observation of the Interference of Sodium D-lines

Twyman-Green Interferometer

Demonstration of the principle of Twyman-Green interferometer
Checking Principle of defects in Optical Components. (Flat Mirrors, Windows, Prisms & Lenses).



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