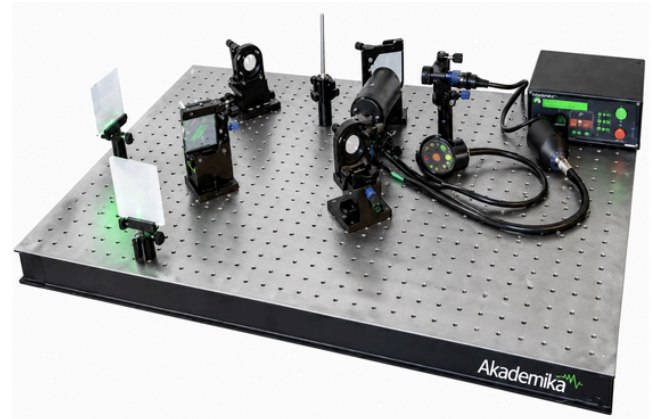


FOL-MZ

Mach-Zehnder Interferometer Experimental Setup



FEATURES

- Kinematic mounts provided for fine adjustment of optical components.
- Laboratory-grade materials used with high corrosion resistance.
- Diode laser used as the light source.
- Research-quality optical components for high accuracy and reliability.

SPECIFICATIONS

Optical Breadboard with Support

- Dimensions: 800 mm × 600 mm
- Material: Stainless Steel
- Quantity: 1 No.

Mirror Mount with Precision Translation

- Adjustment Range: ± 3 degrees
- Material: Black anodized Aluminium alloy
- Least Count (Micrometer): 0.01 mm
- Quantity: 1 No.

Mirror with Cell

- Diameter: 25 mm Thickness: 6 mm
- Material: Borofloat
- Coating: Aluminium
- Quantity: 2 Nos.

Diode Laser with Power Supply (Green)

- Wavelength: 532 nm
- Optical Power: 5 mW
- Quantity: 1 No.

Mirror Mount with Translation

- Adjustment Range: ± 3 degrees
- Fine Adjustments: Using 80 TPI lead screws
- Material: Black anodized Aluminium alloy
- Quantity: 1 No.

Pressure Cell

- Length: 10 cm
- Pressure Range: 0 – 300 mm Hg
- Quantity: 1 No.

Diode Laser with Power Supply (Red)

- Wavelength: 650 nm
- Optical Power: 5 mW
- Quantity: 1 No.

Beamsplitter Mount

- Degrees of Freedom: 2 degrees
- Material: Black anodized Aluminium alloy
- Quantity: 1 No.

Screen with Mount

- Dimension: 75 mm × 75 mm
- Quantity: 1 No.

Glass Slide

- Dimensions: 75 mm × 25 mm
- Thickness: 1 mm
- Quantity: 5 Nos.

Kinematic Laser Mount

- Material: Black anodized Aluminium alloy
- Adjustments: Using 80 TPI lead screws
- Adjustment Range: ± 3 degrees
- Quantity: 1 No.

Rotation Stage

- Resolution: 2° per division
- Material: Black anodized Aluminium alloy
- Quantity: 1 No.

Beamsplitter

- Dimensions: 50 mm × 50 mm Thickness: 6 mm R/T
- Ratio: 50/50
- Material: N-BK7
- Coating: Aluminium
- Quantity: 1 No.

EXPERIMENTS

- To determine wavelength of laser beam.
- To find refractive index of a transparent material.
- To study refractive index change in air under different pressures and determine refractive index of air.