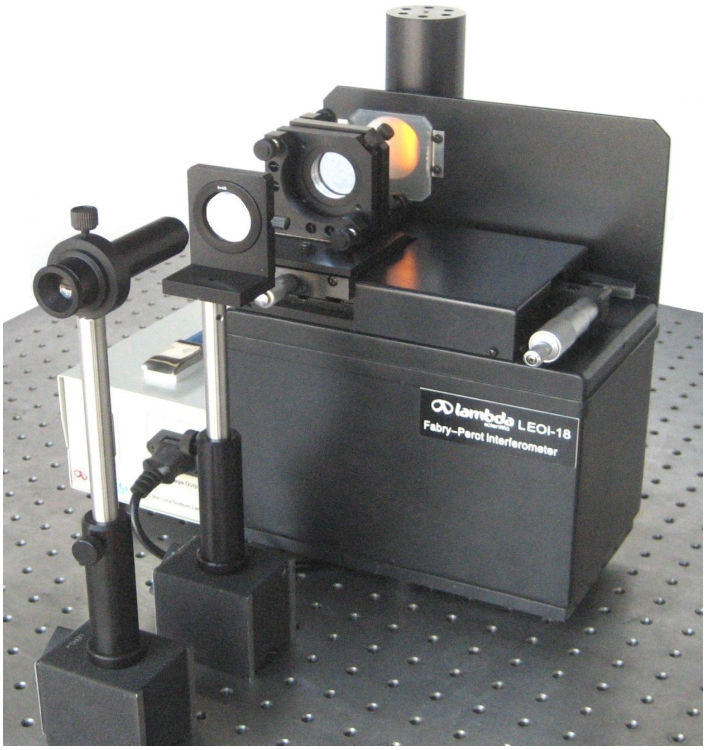
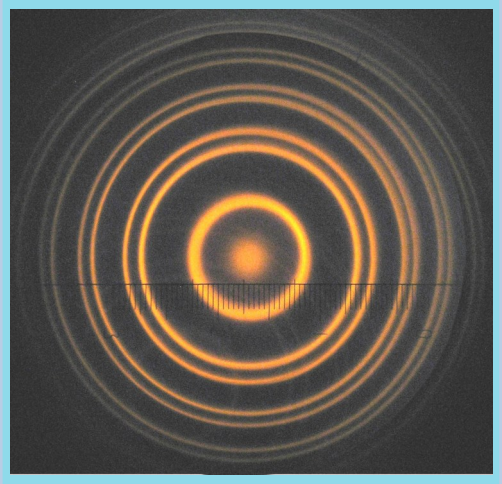
Construct, Conduct & Comprehend Physics Experiments

LEOI-18 Fabry-Perot Interferometer

- *Including Sodium Lamp with Power Supply*
- *Smooth Mirror Movement*
- *Ideal for Demonstration*
- *Compact Design*
- *Two Micrometers*



The Fabry-Perot interferometer (LEOI-18) is a standalone device that can be used to observe multiple-beam interference and measure the wavelength separation of Sodium D-lines. When equipped with other components, this device can be used to conduct other experiments such as to observe the spectral shift of a Mercury isotope or the splitting of spectral lines of atoms in a magnetic field (the Zeeman effect).



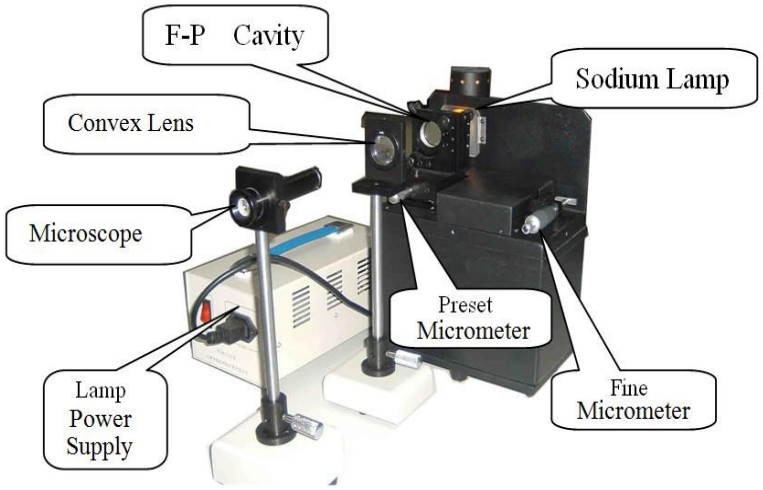
Sodium D-lines observed via microscope

Specifications

Flatness of Reflective Mirrors	λ/20
Diameter of Reflective Mirrors	30 mm
Reflectance of Mirrors	95%
Effective Travel of Preset Micrometer	~ 3 mm
Min Division Value of Preset Micrometer	0.01 mm
Travel of Fine Adjustment of Movable Mirror	1.25 mm
Resolution of Fine Adjustment	0.0005 mm
Low-Pressure Sodium Lamp	20 W

Part List

Fabry-Perot Interferometer	1
Observation Lens	1
Lens Holder	1
Mini Microscope	1
Microscope Holder	1
Ground Glass Screen	1
Low-Pressure Sodium Lamp	1
Sodium Lamp Power Supply	1
User's Manual	1



Schematic of system

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