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# Michelson Interferometer

## Product Image



## Description

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### Specifications:

- Lead Screw dia. : 17mm Pitch : 1mm : Thread Length: 205mm
- Lead screw and its nut are optically aligned maintain constancy for the pitch.
- Mirror mount are kinematics type have in orthogonal tilt arrangement in x & y means of fine there added screw.
- Square mirror holders (fitted with mirror mount) are able to hold the mirrors, Mirror dia.: 0 mm thickness. : 15mm.
- Interferometer is provided by three scales.
- A scale (0-150mm graduated in mm) is attached with the bed of interferometer.
- Graduated small drum (0-100Div.) may be peeped through glass window provided with the head of the interferometer. One division of graduated disc =0.01mm.
- A graduated slow motion small drum (graduation 0-100Div.) is fitted on Right hand side of the interferometer. One division of slow motion drum =.0001mm.
- Least count of interferometer:  $10^{-4}$  mm.

### Specifications of optically component :

Optical Beam splitter (42x32x8.5mm): slightly cited. Coating Material: Al+Sio<sub>2</sub>: R/T ratio: 50/50 + 50% Parallelism < 3 arc second.

**Note:** Infect beam splitter (before coating) and compensating plate are carved from the same optically worked glass plate having thickness: 8.5mm. : Surface Flatness. 1/10 and parallel is in between two faces <3 arc second for optically proved.

Mirrors (Front surface coated Dia. : 30mm, thickness 15mm.

Surface flatness of coated face: 1/10 and other faces optically ground.

Mirror reflectivity > 95%.

Weights = 15 kg approximate including stand & packing

Dimensions = 17½" x 16" x 10"

Stand Box = 14" x 13" x 10"

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Michelson Interferometer

**Catalog No. 101030**

## Disclaimer

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The Products details given on this page are indicative in nature and JAPSON reserves the right to change them without prior notice. Buyer is also requested to re-check the specifications and other features of product at the time of order as product development is a continuous process and minor modifications may be made to design based on latest availability, process and design.