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Michelson Interferometer

Product Image



Description

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.: 30 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+Sio₂: R/T ratio: 50/50 + 50% Parallelism < 3 arc second.

Note: Insect 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 = $17\frac{1}{2}$ " x 16" x 10"

Stand Box = 14" x 13" x 10"

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Catalog No. 101030

Disclaimer

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.