



Email : sales@laboratoryinstrumentindia.com

Product Name :
Transmitted Light Polariscopes

Product Code :
LBNY-0005-17600010



Description :

Photoelastic analysis is achieved by passing light through the mechanical stress models while a tensile load is applied. The frame has the Transmitted Light Polariscopes filter and quarter wave plate mounted to rotational frames. The Transmitted Light Polariscopes is a bench top mounted frame which allows the study of stress patterns and photoelasticity resulting from geometrical changes in loaded mechanical models. Transmitted Light Polariscopes can be vertically or horizontally mounted onto the light box. These frames allow the rotational angle of the plates and filters to be adjusted and hence vary the colourisation seen by the user. Rubber mounting feet enable it to sit firmly onto the light source. The frame can sit in front of a light box which supplies monochromatic or white light.

Experimental Capabilities:

Photoelastic analysis of standard mechanical models
Tensile loading of beams, perforated beams, plates, overlap element
Variation of stress colourisation
Rotational position of wave plate and filters
Analysis of Crane hook under tensile load.

Technical Specification :

To be supplied with quarter wave plates and polarisation filters, and light box
Wave plates and filters to be easily mounted
To be bench top unit for teaching of photoelastic principles
To be used with white light or monochromatic light source
Wave plates and filters can be rotated through varying angles to vary colourisation

A variety of mechanical specimens supplied

Adjustable loading mechanism

To have fine tuning loading mechanism using loading spring, dial gauge and screwjack.



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