

Newton's Rings Microscope, Cat No PH0916



Description :

In this apparatus, light from a sodium lamp falls on the glass plate, inclined at 45 degree to the horizontal, get reflected, and then falls normally on the convex lens placed over the glass plate. A system of bright and dark concentric circular rings are observed through a microscope, arranged vertically above the glass plate. The microscope is properly focused so that alternate bright and dark concentric circular rings are observed more clearly. Measurements are taken from a micrometer driven traveling microscope, which is integrated with this apparatus. The two interfering beams, derived from a monochromatic source satisfy the coherence condition for interference. Ring shaped fringes are produced by the air film existing between the convex surface of a long focus planoconvex lens and the plane of glass plate. Consists of a microscope tube which can be raised or lowered and clamped at any desired position. The eyepiece, which can be focused using rack & pinion arrangement, having 30x magnification approx. ,and a rotatable cross-line which makes it easy to use.
