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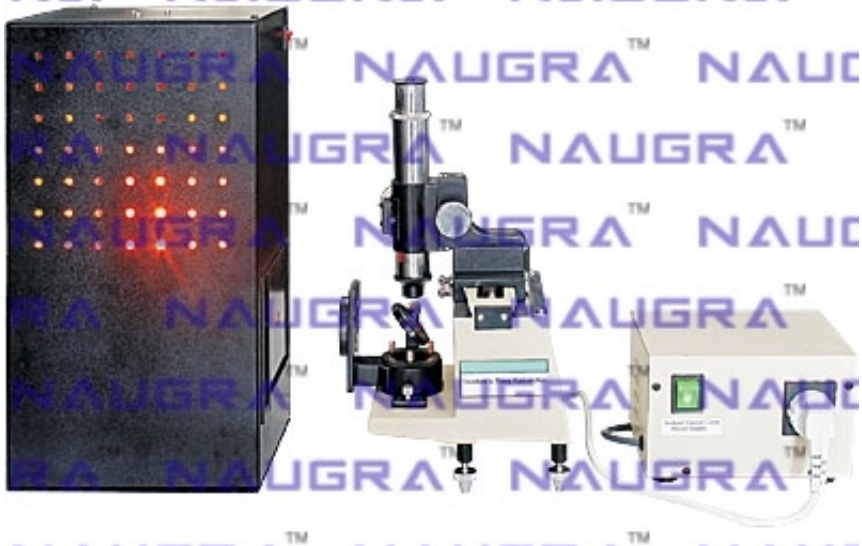
Product Name :	**Product Code :**
Newton's Ring Apparatus for Physics Electric Labs	BSC-TR-26



Description :

Newton's Ring Apparatus - Horizontal measurement scale with fine and coarse movement screw. Cross wire in the field of view for ring's diameter measurement. Newton's Ring Apparatus - Horizontal measurement scale with fine and coarse movement

screw.

Cross wire in the field of view for ring's diameter measurement.

Newton`s ring apparatus is one of the basic experiment at graduation level. With the help of this apparatus, the wave nature of light is confirmed. It is based on the phenomenon of interference of light waves obtained from single coherent (of same frequency and constant or zero phase difference). The phenomenon of Newton`s ring, is the result of interference between the partially reflected and partially transmitted rays from both the lower curved surface of planoconvex lens as well as upper surfaces of the glass plate. When viewed with a monochromatic light, it appears as a series of concentric, alternating bright and dark rings centered at the point of contact between the two surfaces. The thickness of the film is radially symmetrical and increases outwards from the point of contact. By studying the ring pattern, we can determine the wavelength of the monochromatic light and also the

refractive index of a given transparent liquid medium present in the wedge-shaped film.

A microscope with x-y-z axes movement

Horizontal measurement scale with fine and coarse movement screw

Cross wire in the field of view for ring`s diameter measurement

Newton`s ring assembly consisting of plano-convex lens mounted on an optically plane glass plate

Adjustable plane glass plate is provided to be inclined at 45 with respect to the vertical plane

Sodium vapour lamp as the monochromatic (5893) and broad light source

Learning material CD

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