



THE LAB EQUIPMENT

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Product Name :

Teltron Electron Diffraction Tube D

Product Code :

SLE/PHY/46



Description :

Highly evacuated electron tube for demonstrating the wave nature of electrons through the observation of interference caused by passage of electrons through a poly crystalline graphite lattice (Debye-Scherrer diffraction) and rendered visible on a fluorescent screen. Instructions included. Also intended for determining the wavelength as a function of the anode voltage from the radii of the diffraction rings and the lattice plane spacing of graphite, as well as confirming de Broglie's hypothesis.

Specifications :

Max. filament voltage : 6.3 V AC

Max. anode voltage : 5 kV

Anode current : approx. 0.1 mA at 4 kV

Lattice constant of graphite : $d_{10} = 0.213 \text{ nm}$; $d_{11} = 0.123 \text{ nm}$.

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