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**Product Name :**

Teltron Electron Diffraction Tube S

**Product Code :**

SLE/PHY/54



## 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. 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. Instructions included

### Specification :

**Max. filament voltage:** 6.3 V AC

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

**Max. anode voltage :** 5 kV

**Anode current :** approx. 0.1 mA at 4 kV