

Product Code . EDS-AANP-10626

Electron Diffraction Tube S



[Product Image](#)

Description

Jainco Export Highly evacuated electron tube for demonstrating the wave nature of electrons through the observation of interference caused by passage of electrons through a polycrystalline graphite lattice (Debye-Scherrer diffraction) and rendered visible on a fluorescent screen.

EHT Power Supply

Digital Meter with two shunts included

Also intended for determining the wavelength as a function of the anode voltage from the radius of the diffraction rings and the lattice plane spacing of graphite, as well as confirming

de Broglie's hypothesis. Instructions included

Specification:



Max. anode voltage: 5 kV

Anode current: approx. 0.1 mA at 4 kV

Max. filament voltage: 6.3 V AC

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

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