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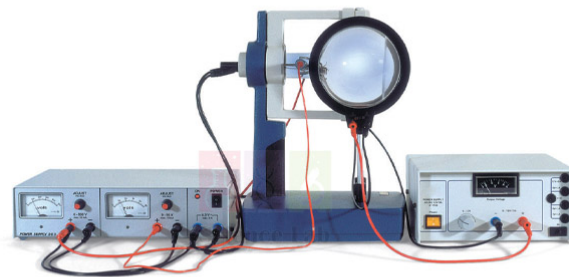
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Product Name :

Teltron Dual Beam Tube D

Product Code :

SLE/PHY/51



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Description :

Teltron Dual Beam Tube D (Product Code: SLE/PHY/51) is a semi-evacuated electron tube filled with low-pressure helium and fitted with both a tangential and an axial electron gun, used to study electron collisions and the electron charge-to-mass ratio in physics laboratories. Excited helium atoms make the beams glow as fine luminescent lines, so students see the electron path directly. It is supplied as the tube only by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Tube type	Semi-evacuated, filled with low-pressure helium
Electron guns	Tangential and axial
Max. filament voltage	7.5 V
Max. anode voltage	300 V DC
Anode current	Approx. 30 mA at 200 V (anode)
Max. deflection voltage	50 V DC
Scope of supply	Tube only; instructions included
Product code	SLE/PHY/51
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Dual Beam Tube Used For?

Fire the axial gun with a magnetic field along the tube axis and the fine, luminous beam lets students study impact excitation and particle collisions — a visual link between electron physics and kinetic gas theory. Switch to the tangential gun with the field perpendicular, and the beam bends into a closed pattern whose diameter gives the fundamental electron charge-to-mass ratio, a classic specific charge electron experiment.

Because the Teltron Dual Beam Tube D is sold as the tube only, plan the full set-up before ordering: a D-series holder, a Helmholtz coil pair for the magnetic field, and a supply able to provide up to 300 V DC on the anode, 7.5 V on the filament and 50 V DC for deflection. Departments that already own Teltron D-series accessories can simply add the tube.

What to Specify When Ordering

- Whether you need the Teltron Tube Holder D and Teltron Helmholtz Pair of Coils D, since the product is the tube only.
- A power supply covering 300 V DC anode, 7.5 V filament and 50 V DC deflection.
- A meter for monitoring the coil current.
- Number of tubes required.

Supplier

ScienceLab
the Teltron

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