Email : sales@scilabexport.com
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Product Name :

Teltron Dual Beam Tube S

Product Code :

SLE/PHY/53



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Description :

Teltron Dual Beam Tube S (Product Code: SLE/PHY/53) is a Teltron S-series electron tube containing low-pressure helium and two electron guns, used to measure the electron charge-to-mass ratio from the diameter of a visible beam pattern in physics laboratories. Its anode runs atup to 300 V DC, with an anode current of approx. 30 mA at 200 V, and instructions are included.It is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Series	Teltron S series
Tube type	Semi-evacuated, low-pressure helium filling
Electron guns	One tangential, one axial
Max. anode voltage	300 V DC
Anode current	Approx. 30 mA at 200 V (anode)
Max. filament voltage	7.5 V
Max. deflection voltage	50 V DC
Documentation	Instructions included
Product code	SLE/PHY/53
Supplied by	Jain Scientific Equipments Pvt Ltd (ScienceLab), Ambala, India

What Is the Dual Beam Tube S Used For?

For the e/m experiment, the tube sits between Helmholtz coils so the magnetic field is perpendicular to the tangential beam. Students set an accelerating voltage, adjust the coil current until the glowing beam closes into a circle, and read its diameter; with the field worked out from the coil current, e/m follows from the standard relation. Repeating at several voltage and current settings gives a dependable average for this EM ratio apparatus exercise.

The axial gun adds a second investigation: with a co-axial magnetic field, the fine luminescent beams show impact excitation of helium atoms and particle collisions, linking electron physics to kinetic gas theory. Two investigations from one tube help physics departments in India get more from a single S-series set-up.

What to Specify When Ordering

- Whether your lab already has the Teltron Tube Holder S and Teltron Helmholtz Pair of Coils S.
- A power source able to give up to 300 V DC on the anode, 7.5 V on the filament and 50 V DC for deflection.
- An ammeter to set the Helmholtz coil current.

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