



THE LAB EQUIPMENT

Email : [sales@thelabequipment.com](mailto:sales@thelabequipment.com)

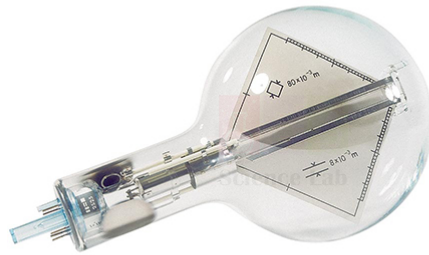
Phone: +91-8759245890

**Product Name :**

Teltron Thomson Tube S

**Product Code :**

SLE/PHY/309



**Website:** <https://thelabequipment.com>, **Email:** [sales@thelabequipment.com](mailto:sales@thelabequipment.com)

plot. no.296. Sector 5. Vaishali. Ghaziabad. Uttar Pradesh 201010



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## Description :

### Teltron Discharge Tubes

The Teltron range of demonstration discharge tubes has been designed to show the properties of the free electron.

The D range is the original Teltron range with connections fixed on the tubes.

The S range is a newer range with connections on the stand rather than the tubes.

### Other equipment for use with the Teltron tubes:

EHT Power Supply

Digital Meter with two shunts included

Shrouded Test Lead Red

Shrouded Test Lead Black

### Teltron Thomson Tube S

High-vacuum electron tube with high-accuracy electron gun and ruled target phosphorescent screen.

Determine the fundamental electron charge-to-mass ratio ( $e/m$ ), study mean electron velocities using field cancellation, and explore electron optics using this tube.

### The electron beam trajectory can be manipulated using two methods :

Deflection induced by the electric field of the built-in plate capacitor,

Magnetically using external Helmholtz Coils S.

### Technical Specifications :

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

**Max. capacitor voltage:** 500 V

**Anode current:** approx. 0.1 mA at 4 kV (anode).

**Max. anode voltage:** 5 kV

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