



THE LAB EQUIPMENT

Email : sales@thelabequipment.com

Phone: +91-8759245890

Product Name :

Complete Properties of Electrons
Apparatus

Product Code :

SLE/EM/11



Website: <https://thelabequipment.com>, **Email:** sales@thelabequipment.com

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



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Description :

The instruction manual contains sample activities and sample data for the following basic experiments:

- Electron behavior in an electric field.
- Electron deflection in a transverse electric field.
- Electron paths in an inhomogeneous longitudinal electric field.
- Electron deflection in a transverse magnetic field.
- Spiral electron path in a longitudinal magnetic field.
- Determination of e/m .

Specifications:

Overall Length: 240 mm

Neck Diameter: 51.4 mm

Flat Screen Diameter: 75 mm

Grid Pitch: 10 mm

Y-Deflection: $\sim\pm 100$ V

Power Requirement: 110-V AC, 60 Hz

Case: Dimensions: 470 x 330 x 215 mm

Weight: ~ 10 kg (22 lb)

Transverse Field Coils:

Mean Diameter: 67 mm

Number of Turns: 530 per coil

Axial Field Solenoid:

Mean Diameter: 93 mm

Length: 228 mm

Number of Turns: 1,300

Power Supplies:

CRT: Cathode Voltage: -750 to -1,400 V

Focus Voltage: +200 to +400 V

Grid Voltage: -4 to -80 V

Electrostatic Deflection: X-Deflection: $\sim\pm 100$ V

Magnet Supply: 0 to 9 V, 0.155 A transverse, 0 to 7.7 V, 2.0 A axial