



THE LAB EQUIPMENT

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**Product Name :**

Complete Properties of Electrons  
Apparatus

**Product Code :**

SLE/EM/11



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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:**  $\sim 10$  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