1. Maltese Cross Tube

High-vacuum electron tube with divergent electron gun aimed at a fluorescent screen partially obscured by a Maltese cross. For demonstrating the linear propagation of electrons in the absence of applied electromagnetic fields by projecting the shadow of a Maltese cross onto the fluorescent screen. Application of a magnetic field using the Helmholtz coils allows students to study the fundamental science of electron optics, such as beam focusing.

- Max. filament voltage: 6.3V A.C.
- Max. anode voltage: 5kV
- Anode current: approx. 0.1mA at 4kV

Code	Description	Pack	Price
SE1000011	S type	Each	**£578.69**
SE1000649	D type	Each	**£610.56**

1



SE1000011

2. Diode Tube

High-vacuum electron tube with thermionic cathode for demonstrating the thermoelectric effect (Edison effect). Use the tube to investigate the relationship between measured emission current and the voltage applied to the cathode. Also investigate the characteristics of diodes via the process of rectification.

- Max. heater voltage: 7.5V AC/DC
- Max. anode voltage: 500V
- Anode current: approx. 2mA at 200V

Code	Description	Pack	Price
SE1000613	S type	Each	**£435.95**
SE1000646	D type	Each	**£538.80**

2



SE1000613

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