



THE LAB EQUIPMENT

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Product Name :

Complete Zeeman Effect Apparatus

Product Code :

SLE/EM/10



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Description :

Specifications:

Lamp: Mercury discharge lamp, slim design, AC, 1,500 Vp-p, 5 W

Observed Emission Line: 3S1 (6s7s)—5P2 (6s7s) at 546.1 nm

Maximum Magnetic Field at Lamp Position: 1.3 T

Fabry-Pérot Etalon: Aperture: 40 mm

Separation of Quartz Plates: 2.0 mm

Central Wavelength: 589.3 nm

Resolution: 2×10^5

High-Reflection Bandwidth: 100 nm

Interference Filter: Central Wavelength: 546.1 nm

Transmission Bandwidth: ≈ 10 nm

Peak Transmission: $\approx 50\%$

Collimating Lens: Aperture: 37 mm

Focal Length: 110 mm

Environmental: Operating Limits: 0 to 40° C (32 to 104° F).

Humidity: 35% to 80%.

Power Input: 110-V AC, 60 Hz, 190 W

Dimensions: 2 x 0.75 m (7-1/2 x 2-1/2 ft)

Weight: 36.4 kg (80 lb)

Electromagnet: Built-in current-controlled

Power supply: 90-V DC, 0.5 to 1.4 A, with analog ammeter.

Magnet rotatable 90° for transverse or longitudinal viewing.