

A04-511P-M02

Photoelectric Effect Experimental Kit



The following items can be verified:

- a. Photoelectric effect
 - b. The relationship between the amount of light received and the photoelectric flux
 - c. The relationship between light frequency and photon energy
 - d. Planck constant
 - e. Energy distribution of emitted electrons
 - f. Current / voltage characteristic curve of photocell specification
1. Photocell (including anode protection device)
 2. Power supply: DC9V (built-in 006P dry battery), can be connected to forward power supply 0-20V
 3. Size: 275 × 175 × 120mm
 4. Filter:
 - a. 432nm / 6.944×10^{14} Hz (14th power)
 - b. 477nm / 6.289×10^{14} Hz (14th power)
 - c. 501nm / 5.988×10^{14} Hz (14th power)
 - d. 522nm / 5.747×10^{14} Hz (14th power)
 - e. 582nm / 5.155×10^{14} Hz (14th power)
 5. Aperture plate aperture 7mm / 10mm / 14mm / 20mm
 6. Special light source device 12V / 25-30W (requires external power supply)
 7. Instrument: Digital
 8. Photocurrent measurement:
 - a. Low: 0-200nA, 0.1nA
 - b. High: 0-20uA, accuracy: 0.01uA