e/m BY MILLIKAN's OIL DROP METHOD

Model : TEM-1101/063

Experiment(s):

1. Determination of e/m of an electron by Millikan's Oil Drop Method

(For more details, procedure & manual visit: www.kamaljeeth.net)

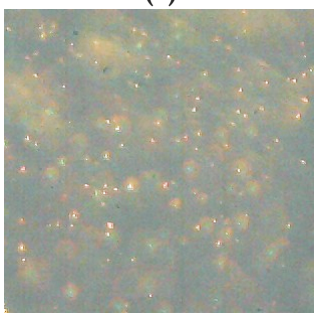
Experiment Setup Consists:

a) Electric Field Plate & microscope
b) Power Supply
c) Digi-eye Camera (Optional)

(a)

(b)

(c)



Oil Drop captured by Digieye camera

Specifications:

a) Electric Field Plate & Microscope
Electric Plate with fixed distance and terminals for high voltage supply
Illumination: Incandescent focussed light beam with position adjustment
Atomizer with oil chamber for fine mist
Microscope: 45x to 100x magnification with focus knob
Sample: Oil provided

b) Power supply
High Voltage: For Parallel plate chamber with variable voltage from 0-300V contentiously variable
Low voltage: For illumination

c) Digi-eye Camera (Optional)
Type: USB
Requires Windows 7 PC with at least 300MB of free memory
Resolution: 1.3MP

Reference : Lab Experiments Journal vol-12, No.4, Page-254

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