

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)

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

Experiment setup consists:

- a) Electric field plate & microscope
- b) Power supply
- c) Digi-eye camera (Optional)

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: Mineral oil (provided)

b) Power supply

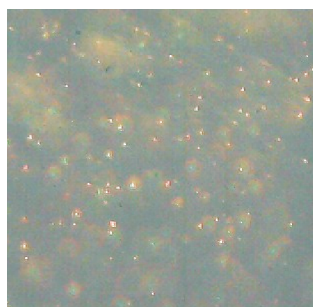
High voltage: For parallel plate chamber with variable voltage from 0 - 300 V continuously variable
 Low voltage: For illumination
 Rated Input: 220 V/50 Hz or 110 V/60 Hz

c) Digi-eye camera (Optional)

Type: USB
 Requires Windows 7 PC with at least 300 MB of free memory
 Resolution: 1.3 MP



(a)



Oil Drop captured by Digi-eye camera



(b)



(c)



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