

# LEAI-40 Apparatus of Millikan's Experiment - Basic Model

- Compact structure and stable performance
- Easy to use
- Affordable
- Optional VGA video camera for accurate measurement on LCD monitor



This LEAI-40 apparatus of Millikan oil droplet experiment is designed to verify the quantum nature of electrical charges, measure the elementary charge of an electron, and observe the Brownian motion. **Using an optional VGA camera with built-in electronic grid lines, oil drop image can be acquired and displayed in real-time on a LCD monitor for more convenient observation and accurate measurement.** It is an ideal physics teaching apparatus for colleges and universities.

## Specifications

|                                       |                                                                   |
|---------------------------------------|-------------------------------------------------------------------|
| Voltage between upper & lower plates  | 0 ~ 500 V                                                         |
| Distance between upper & lower plates | 5 mm $\pm$ 0.2 mm                                                 |
| Magnification of measuring microscope | 30 X                                                              |
| Linear field of vision                | 3 mm                                                              |
| Total division of scale               | 2 mm                                                              |
| Resolution of objective lens          | 100 lines/mm                                                      |
| CMOS VGA Video Camera (Optional)      | Sensor size: 1/4", Resolution: 1280 $\times$ 1024                 |
|                                       | Pixel size: 2.8 $\mu$ m $\times$ 2.8 $\mu$ m, Output: VGA, Bit: 8 |
|                                       | Length measurement on screen with cross line cursor               |
|                                       | Function setting & operation: via keypad and menu                 |
|                                       | Camera to eyepiece tube adapter lens: 0.3 X                       |

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**Note: above product information is subject to change without notice.**