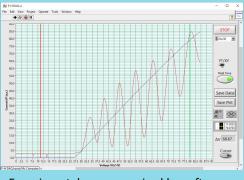


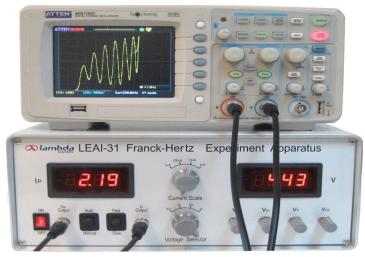
Construct, Conduct & Comprehend Physics Experiments

LEAI-31 Apparatus of Franck-Hertz Experiment - Complete Model

- No preheating for Argon gas tube
- Multiple modes: manual recording, oscilloscope viewing or data acquisition with software
- Compact, stable and reliable
- Built-in data acquisition card for PC via USB port



Experimental curve acquired by software



Note: oscilloscope not included

This LEAI-31 Franck-Hertz experiment apparatus can demonstrate the existence of Bohr atomic energy levels. Experimental results can be recorded by manual data taking, viewed on an oscilloscope, or acquired using a built-in data acquisition card for PC via USB port. No oscilloscope is necessary when using the built-in data acquisition card with a PC. It is an ideal teaching apparatus for physics laboratories at colleges and universities.

Using this instrument, the following experiments can be conducted:

- 1. Acquire relationship curve between plate current & accelerating
- 2. Understand process of electron-atom collision & energy exchange
- 3. Calculate 1^{st'} excitation potential of Argon atom
 4. Using 1st excitation potential to calculate Planck's constant

Specifications

Curve peaks	≥ 5
Franck-Hertz tube	Argon gas
Filament voltage VF	1 ~ 5 VDC, continuously adjustable 3-1/2 digital display
Accelerating voltage VG2K	0 ~ 90 VDC, continuously adjustable 3-1/2 digital display
Micro current measurement	range: 0.1 nA ~10 μA

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