



Product Code . JL-PI-619

Deluxe Free Fall Apparatus with Pendulum JLab

Description

Deluxe Free Fall Apparatus with Pendulum

- An essential piece of equipment in basic dynamics studies.
- Can be used for qualitative and quantitative study of free falling bodies for demonstration experiments (acceleration due to gravity.)
- Unit is mainly made of an aluminium alloy; equipped with a scale.
- Consist of an electromagnetic device that holds the ball in place, a digital timer to record all statistics of the experiment, 3 moveable photo gates (photo sensors) in the middle part of the frame, and a receiving net, which is fixed on the cast-iron base and tripod at the lower end of the vertical rod.
- Basic Concept: A steel ball is held in place with and electromagnet.
- The timer is equipped with a button to release the power holding the ball, allowing the free fall motion.
- Acceleration of the free fall motion of the steel ball is captured by 3 moveable photo gates & recorded by the timer.
- The three photo gates on the vertical rod can be freely moved to any position and can be easily read against the bright yellow scale
- The vertical rod is fixed on a solid tripod base and can be easily adjusted to true vertical by means of the levelling bolts on the tripod base and the included plumb line
- Overall height of instrument: 5.25 ft (1.6m)
- Overall height of experiment: 4.9 ft (1.5m)
- Power of electromagnet: 6 volt
- Diameter of steel ball: 18 mm
- Relative errors on measuring g: (the acceleration of free fall) 2%
- Complete set includes Free Fall apparatus and accessories, digital timer, electromagnetic device, 3 photo gates, 18mm steel ball, plumb line, pendulum, all cables and plugs, and instructions.

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- Supplied with photo gates, but without timer.

Digital Timer sold separately, product. Or set is a

Measurements are approximate.

Deluxe Free Fall Apparatus with Pendulum with Digital Timer Available, product
