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[Deluxe Free Fall-Single Pendulum Apparatus](#)



[Deluxe Free Fall-Single Pendulum Apparatus](#) is designed for qualitative and quantitative study of free falling bodies experiments (acceleration due to gravity) with a measurement up to 160 cm of free-fall distance. It is mainly made of an aluminum alloy with a yellow scale. A steel ball is suspended with an electromagnet, which when turned off, plummets toward the catching net, which is fixed on the cast-iron base and tripod at the lower end of the vertical rod. Acceleration of the free fall motion of the steel ball is captured by moveable photogates and recorded by the [digital timer \(download\)](#).

The vertical rod is fixed on a solid tripod base and can be easily adjusted to true vertical by means of the leveling bolts on the tripod base and the included plumbline.

[Deluxe Free Fall-Single Pendulum Apparatus](#) includes Free Fall apparatus and accessories, photogates, 18mm steel ball, plumbline, pendulum, cables and plugs, and instructions. Required by not included: [Digital Timer with Photogates\(download\)](#).

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Main Technical Parameters

<u>Deluxe Free Fall-Single Pendulum Apparatus</u>	Specification
SKU	0201010240
Overall height of apparatus	160cm
Overall height of experiment	150cm
Power of electromagnet	DC 6 V
Diameter of steel ball	18mm
Relative errors on measuring g: (the acceleration of free fall)	$\leq 2\%$

*Products and configuration list described herein are subject to changes without notice.