

1. Inspire TimingPro™ Bluetooth Timing Ball

A must have addition to any physics laboratory. The TimingPro™ Bluetooth timing ball uses a simple accelerometer to accurately measure time of flight. The most obvious use for the timing ball is to calculate g , which can be done very easily and accurately by dropping the ball over a known distance. The timing ball can also be used to investigate trajectories and to demonstrate that perpendicular vectors are independent.

The timing ball connects to TimingPro™ timing ball software on PCs, tablets and smartphones and enables users to display displacement, velocity, acceleration, force, energy and momentum. Please be aware that for ease of data collection there are reduced functions on Android and Apple devices. Please use PC software for full access. The software is available free of charge from the Play Store and App Store. The apps have the templates for popular experiments for using the timing ball.

A handy ruler pointer adapter slides over any standard 1m ruler and lets users perform g by freefall by accurately showing the point of release (ruler and pointer PY5052 must be purchased separately).

- Inbuilt accelerometer records time of flight
- Reliable Bluetooth connection to PC
- Robust, simple to use and economical to purchase
- Investigate g by freefall and SUVAT equations
- Easy data collection by PC, iOS and Android tablets

Code	Description	Pack	Price
PY5050	Bluetooth timing ball	Each	£78.07
PY5052	Timing ball pointer accessory	Each	£10.15
PW04226	Power supply 5V 1A	Each	£8.38

2. Inspire TimingPro™ Intelligent Light Gate

A standalone light gate system that requires no separate timer or complex wiring setup. The 'primary' light gate connects via Bluetooth to any PC, tablet or smartphone running TimingPro™ light gate software. The inbuilt rechargeable battery can provide power for an unlimited number of secondary light gates (which connect by a single lead) or for the separately available g by freefall release mechanism. Ideal for use with linear air tracks and dynamics ramps/cart. Determination of g by freefall can be performed in a number of ways using 1 light gate or 2 light gates in conjunction with the TimingPro™ g by freefall stand and solenoid.

The primary light gate connects to TimingPro™ light gate software and enables users to display results quickly and easily. The software is available for free from the Play Store or App Store. Please be aware that for ease of data collection there are reduced functions on Android and Apple devices. Please use the PC software for full access. The apps have templates for popular experiments so that only the functionality that is required for the experiment is shown.

- Wireless light gates for PC, tablet and iOS devices
- Inbuilt battery and ability to plug in unlimited no. of 'child' gates
- Ideal for use with air tracks and dynamics card
- Highly accurate and reliable
- Separate g by freefall accessory
- Easy data collection by PC, iOS and Android tablets

Code	Description	Pack	Price
★ PY5100	Intelligent light gate & software	Each	£151.29
PY5109	Picket fence accessory	Each	£12.13
PY5112	Secondary light gate	Each	£35.09
PY5115	Light gate mounting rod	Each	£4.24
PY5101	Power adapter 9V	Each	£8.68

