

1. Bluetooth Wireless Infra Red Sensor

Leslie's cube, insulation, heat along a metal rod, Hershel's discovery, Stefan-Boltzmann law, residual heat, efficiency of filament lamps, warm and cold-blooded animals, human body heat-loss and disaster victims are just some of the investigations which can be done with this sensor.

Being wireless allows pupils to investigate the IR coming from surfaces inside and out e.g. when looking at heat-loss from buildings and comparing results from their own insulation experiments. It also allows a demonstration such as Leslie's cube to be set up anywhere in the laboratory.

Code	Pack	Price
LOG1296	Each	£159.31

2. Bluetooth Wireless Light Gate Sensor

Each light gate is actually a double light gate; you can use these light gates individually or in pairs to calculate average speed and acceleration, acceleration due to gravity, Newton's laws, momentum and kinetic energy.

Alternatively, the students can get the raw data and do all the calculations themselves. Furthermore, being wireless you can set up a demonstration anywhere in the room and send the data straight to your screen and also the students' devices simultaneously using the share function in the software.

As an external laser detector is also included, this means that you can have objects of any size being detected if they are bigger than the gate's aperture such as a large toy car or a basketball.

Code	Pack	Price
★ LOG1298	Each	£129.00

3. Smart Wireless Dynamics System

The dynamics system provides an ideal way of investigating all types of mechanics work for GCSE & A level studies, enabling you to achieve accurate and repeatable results.

Includes:

Dynamics track 1.2m in length, constructed from extruded aluminium. Wireless smart carts which are Bluetooth enabled with built-in, spring loaded, 3 stop plunger to provide a graded set of constant force.

Cart features: force sensor $\pm 100\text{N}$, 3 axis accelerometer $\pm 20000\text{dps}$ & optical encoder on the wheel to 0.1mm. Also supplied with 2 end stops that house two magnets and connections to attach & line feed to the included spoked pulley accessory, 2 height and slide adjustable feet, and an interrupt card.

Code	Pack	Price
LOG1302	Each	£709.21

