

## 1. LED White Light Source

The LED White Light Source can be used in most experiments in place of a ray box and offers many advantages. Improved design with integral slit plate holder (slit included). Spectra produced using prisms or diffraction gratings are bright and clear, from red through to violet.

- Excellent alternative to traditional rayboxes
- Gives a better white light than conventional lamps
- Long life, low power LED (1 watt 10,000 hours) instead of a 24/36W bulb
- Runs cooler than traditional ray optics boxes
- Voltage can not be 'accidentally' increased and blow the bulb
- Requires a 5V plug top power supply (included)

**Code**  
**SEP4377**

**Pack** **Price**  
Each **£32.87**



## 2. Inspire Laser Ray Kit with Accessories

A standalone laser demonstration kit that is supplied with a range of printed magnetic template sheets that allow easy demonstration of a range of optical scenarios. Thin magnets in the laser housing and on all of the lens accessories allow easy positioning of the template sheets on a classroom board, for easy, visible demonstrations. Template sheets include demonstration of long and short sightedness and refracting telescopes.

- 5 beam class II red laser
- Includes 8 magnetic experiment templates
- Full range lens accessories
- Supplied in a high quality carry case

**White board must be ordered separately.**

Code	Description	Pack	Price
<b>PY5200</b>	Laser ray kit & accessories	Each	<b>£194.62</b>
<b>PY5203</b>	Magnetic white board, 60 x 46cm	Each	<b>£19.36</b>



## 3. IPC Irwin Laser (630nm)

This laser emits an intense monochromatic red beam of wavelength 630 – 640nm at 0.9mW (Class II operation). Typical beam divergence is approximately 1 millirad. The laser is ideal for the demonstration of the behaviour of light in a visually effective way, reinforcing the practical work carried out by pupils using white light. It is an essential tool to develop basic understanding of the passage of light through different media, slits etc. The laser beam can be modulated by applying an external digital or analogue waveform to the 3.5mm jack socket on the rear panel. Alternatively the beam can be modulated by the internal generator which produces 0.1µs pulses at approximately 1MHz. This allows speed of light experiments to be easily performed. The passage of light through light guides and optical fibres can be demonstrated by filling a glass or plastic tube or U-tube with very dilute milk.

The laser is powered by a 6LR61 (PP3) battery or external smoothed and regulated supply, has adjustable focus, no warm up time and has a key operated safety switch. Housed in a robust anodised aluminium case. Supplied with key.

Code	Description	Pack	Price
★ <b>EL10430</b>	Laser with stand & rod	Each	<b>£251.95</b>
<b>EL10421</b>	Spare laser key (flat)	Each	<b>£4.31</b>
<b>EL10424</b>	Spare laser key (round)	Each	<b>£4.31</b>

