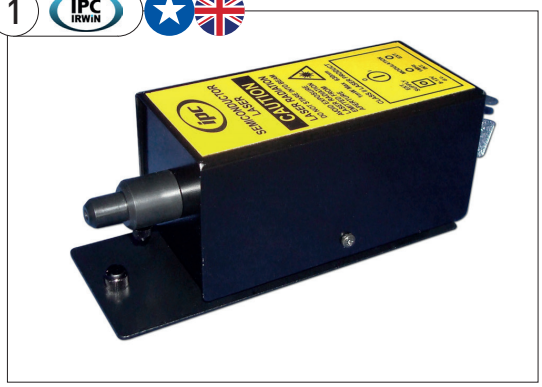
## 1. IPC Irwin Laser

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 |
|---|---|---|---|---|
| ★ | **EL10430** | Laser with stand & rod | Each | **£264.29** |
| | **EL10421** | Spare laser key (flat) | Each | **£3.81** |
| | **EL10424** | Spare laser key (round) | Each | **£3.81** |

1

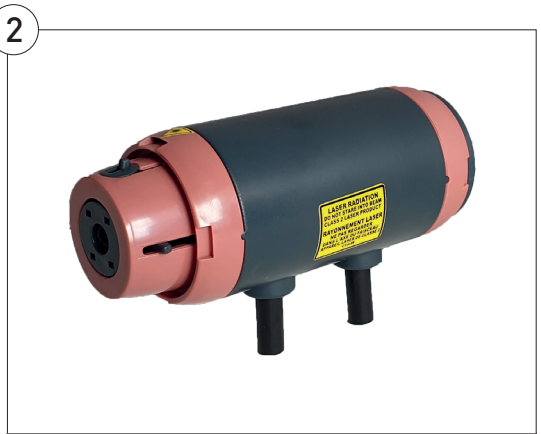


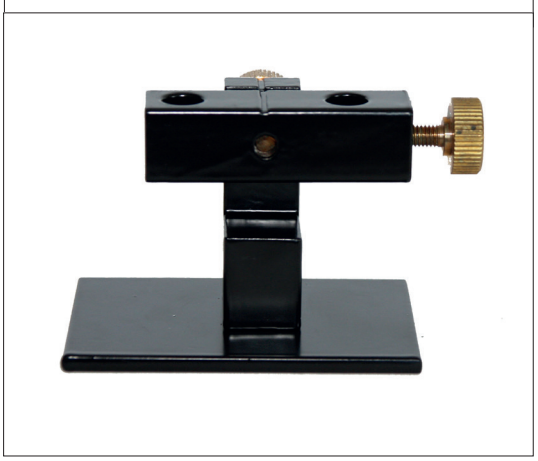

## 2. Lasers

- Wavelength: 405nm
- Power supply: 5V DC
- Beam power: 1mW Class II
- Divergence: <1 mrad

| Code | Colour | Pack | Price |
|---|---|---|---|
| **PY1344** | Red | Each | **£42.77** |
| **PY1346** | Blue | Each | **£31.37** |

2



### Laser Bench Stand

Base for table top. Adjustable angle head for easy beam alignment.

| Code | Pack | Price |
|---|---|---|
| **PY1348** | Each | **£33.68** |