

PHOTONICS TECHNOLOGIES

Select your laser colour at the turn of a dial

Perform experiments at different wavelengths with only one simple laser source and without the need for re-alignment.

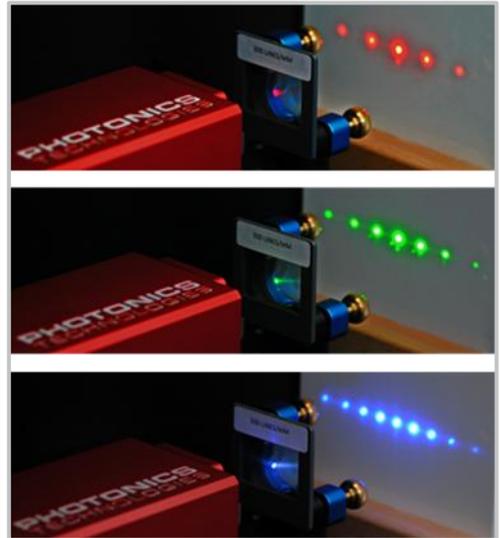
HEXA-BEAM LASER

Up to six laser modules can be included in the new HEXA-BEAM laser, allowing the selection of different wavelengths by simply turning the easily operational dial. The different wavelengths are emitted along the same optical path and are vertically polarised.

The ease of set up and use makes the HEXA-BEAM laser a fantastic tool for a number of physics experiments. In addition, we have developed lab scripts that can be provided for use to lab technicians and students in the labs when working with the HEXA-BEAM laser.



HEXA-BEAM LASER



DIFFRACTION

Applications

Demonstrating laws of physics such as:

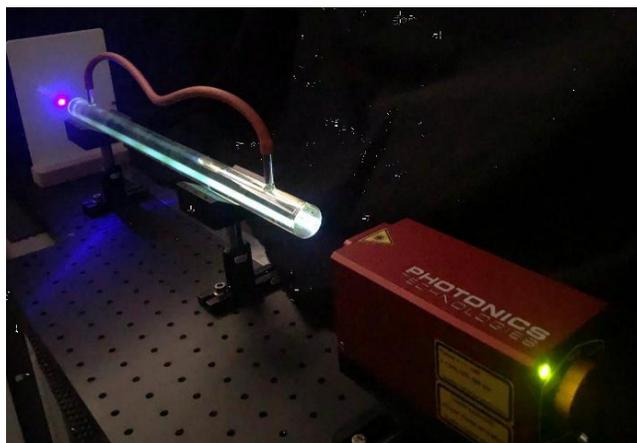
- Measuring the Wavelength of Light using a Diffraction Grating
- The Faraday Effect in Chiral Material
- Rotating the Plane of Polarisation Through Sugar Solutions
- Measuring the Wavelength of Light using a Steel Ruler
- Young's Double Slit



HEXA-BEAM LASER

Specifications

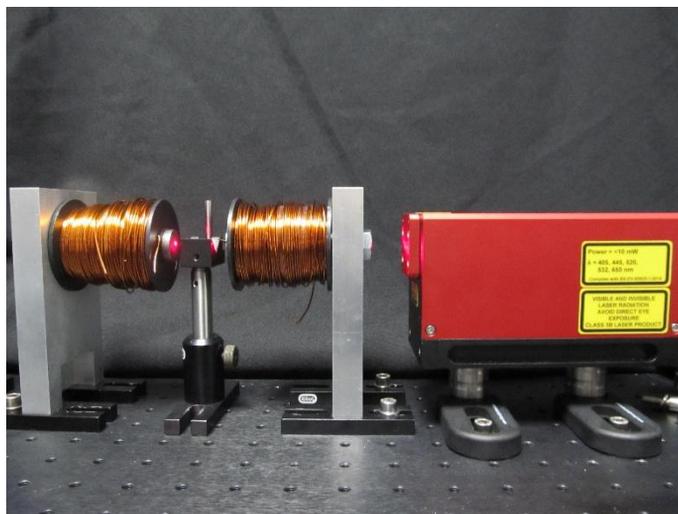
| | |
|-----------------------------------|-------------------|
| Classification | Class 2 |
| Output Power | < 1 mW |
| Beam Diameter (1/e ²) | 2 mm |
| Dimensions (mm) | 150 × 70 × 87 |
| Power Supply | 6 V DC (supplied) |



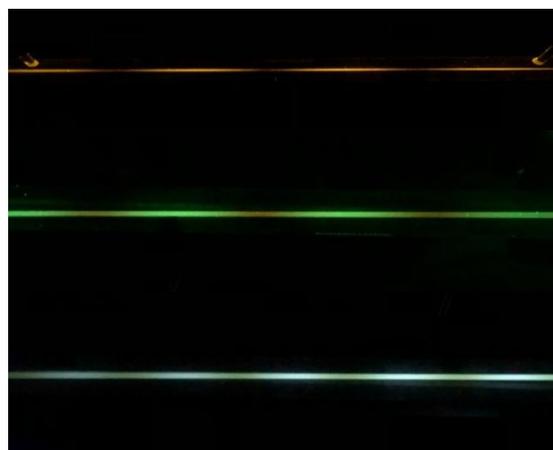
ROTATION OF THE PLANE OF POLARISATION EXPERIMENT

Options

| Wavelength Options | Wavelengths (nm) | | | | | |
|---|------------------|-----|-----|-----|-----|-----|
| Standard | 405 | 520 | 650 | | | |
| Additional optical visible wavelengths | 445 | 532 | 635 | 685 | | |
| Optional IR wavelengths > 700 nm for Class 3R specification | 780 | 808 | 830 | 850 | 940 | 980 |



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