

# PHOTONICS TECHNOLOGIES

## Select your laser colour at the turn of a knob

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

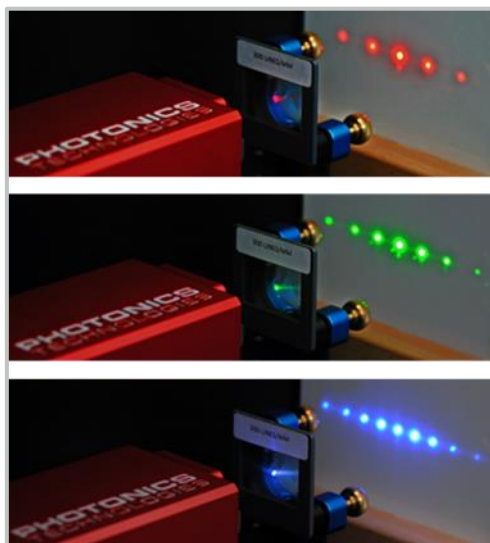
### HEXA-BEAM LASER

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 knob. 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. We have conducted experiments and 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



## Applications

Demonstrating laws of physics such as:

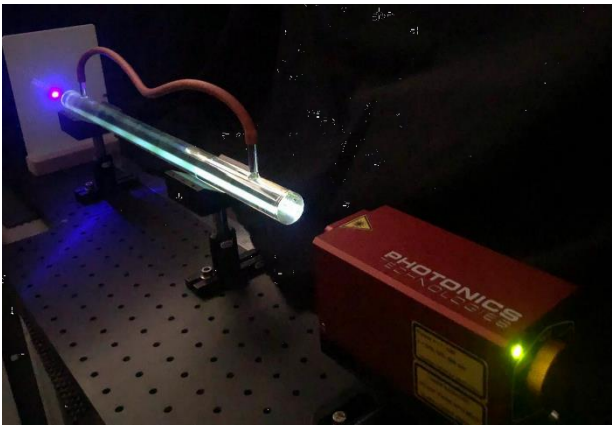
- Poisson spot (Fresnel bright spot) experiment (showing that light behaves as a wave)
- Malus's law
- The law of refraction, measuring refractive indices at different wavelengths of different materials, producing diffraction patterns
- Determining the emission wavelength using a simple grating
- Demonstrating Mie and Rayleigh scatterings
- Demonstrating chirality of molecules



# HEXA-BEAM LASER

## Specifications

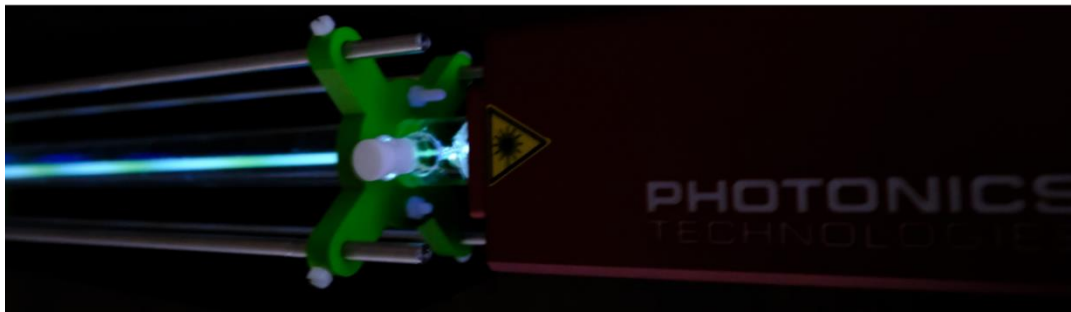
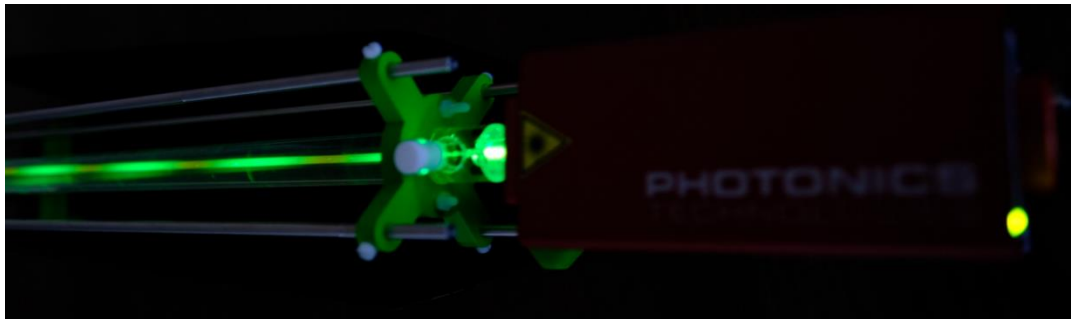
Classification	Class 2
Output Power	<1 mW
Beam Diameter (1/e2)	2mm
Dimensions	150 x 70 x 87
Power Supply	5 V DC (supplied)



Rotation of plane of polarisation set up

## Options

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



Optical rotation in sugar with green and blue laser beams

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