

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.

Flexibility

- The HEXA-BEAM Laser is compatible with the standard 30 mm cage systems allowing experiments to be built directly in front of the device
- The HEXA-BEAM Laser can be placed on optical tables, mounted on posts, clamped onto the table or used free standing

Health & Safety

- Emission powers of standard wavelengths are kept under 1 mW, meeting class 2 specifications to minimize potential health hazards, making the HEXA-BEAM Laser suitable for undergraduate labs, schools and colleges.



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

SPECIFICATIONS

Available wavelengths (nm):

■ Standard	405 520 650	■ Classification	Class 2
■ Additional optional visible wavelengths	445 532 635 685	■ Output power	<1 mW
■ Optional IR wavelengths	>700 nm for Class 3R specification	■ Beam diameter ($1/e^2$)	2 mm
	780 808 830 850 940 980	■ Dimensions	150 x 70 x 87
		■ Power supply	6 V DC (supplied)

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