

Broadband Tunable External Cavity Laser (G5) Integrated Spectral Bench (ISB5)

DAYY's Broadband Tunable External Cavity Laser (ECL) is an ultrawide tunable laser that can be tuned across a typical range of 80nm, and extended models can be tuned across a range up to 500nm. Laser tuning is done with an independent electric signal, replacing the classical method of thermal tuning or mechanical tuning, which provides only a few nanometres of tuning range or moving parts.



The Broadband Tunable External Cavity Laser is designed for scalability, utilizing one gain chip for standard models with extended models can use multiple gain chips for wider tuning range capability. The laser has the unique ability to output up to 4 simultaneous wavelengths.

KEY FEATURES

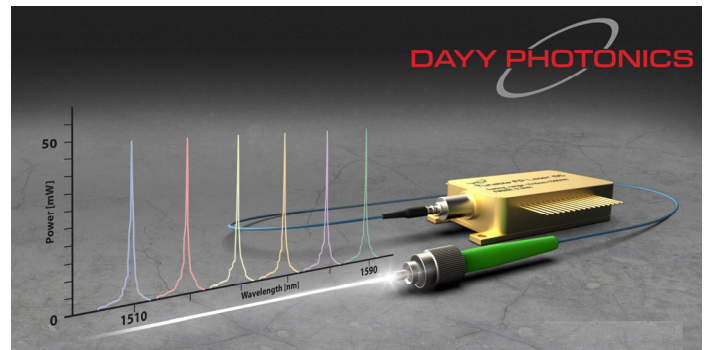
- Center wavelengths available: 785nm, 850nm, 930nm, 980nm, 1050nm, 1210nm, 1250nm, 1300nm, 1350nm, 1410nm, 1550nm, 1590nm, 1625nm, 1680nm
- Tuning range: 45nm-200nm for standard models, extended models can reach up to 500nm
- FWHM: ~0.5nm @1550nm
- Fiber-coupled output power: >10mW per wavelength
- Laser can produce up to 4 simultaneous different wavelengths
- Tuning speeds in the order of kHz for continuous tuning
- No moving parts, tuning is done electrically
- Multiple communication interfaces: USB, RS-232, Ethernet
- Monolithic integration of a Broadband Dual Stage Isolator
- User friendly GUI and custom API available for test automation

APPLICATIONS

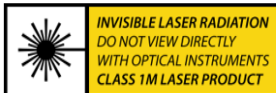
- Optical Component Testing
- Telecom Test Equipment
- Medical Optical Coherence Tomography
- Industrial Optical Coherence Tomography
- Spectroscopy
- Industrial and biomedical imaging systems
- Optical Sensing
- Test and Measurement
- Research and Development

LIGHT TYPE ORDERING OPTION

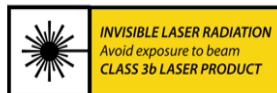
- Low-Degree of Polarization (DOP): the ISB5 can provide under 5% DOP for each wavelength
- Free Space: for higher-power applications that do not require fiber optics, this selection results in a direct collimated laser beam



Fibre-Coupled Products



Free-Space Products



#DAY-ISB5-PB_2023_01_01

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