

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

DAYY's Broadband Tunable External Cavity Laser (ECL) can be tuned across various ranges depending on the model centre wavelength. The self-contained, tunable laser is based on the use of a semiconductor gain module and an integrated tunable filter. The optical output for this product is fiber-coupled via an FC/APC connector, and single mode or polarization maintaining fiber patch cables.



### **SOFTWARE**

A user-friendly GUI is included with this product which allows the user to select between manual, stepped sweep, and continuous sweep modes. Operating parameters for each mode can also be set within the GUI, and direct readout of the operating wavelength are also provided.

The laser can also be operated without the software GUI via modbus protocol with serial commands, which requires the instrument to be connected to the PC using the RS-232 or USB ports

### **KEY FEATURES**

- Center wavelengths available: 785nm, 850nm, 930nm, 980nm, 1050nm, 1210nm, 1250nm, 1300nm, 1350nm, 1410nm, 1550nm, 1590nm, 1625nm, 1680nm
- Tuning range: 5nm-80nm depending on model
- FWHM: 0.1nm – 1nm depending on model
- Fiber-coupled output power: >10mW per wavelength
- Tuning speeds up to 10hz across the full spectrum for continuous tuning
- Multiple communication interfaces: USB, RS-232
- Monolithic integration of a Broadband Dual Stage Isolator
- User friendly GUI and custom API available for test automation

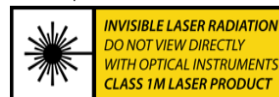
### **APPLICATIONS**

- 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 applications that do not require fiber optics, this selection results in a direct collimated laser beam

Fibre-Coupled Products



Free-Space Products

