

## Amplified Spontaneous Emission (ASE) Source Integrated Spectral Bench (ISB4)

The amplified spontaneous emission (ASE) Integrated Spectral Bench (ISB4) product is a compact light source solution that employs DAYY's high-performance Optical Spectral Engine (OSE4) module and amplifier module. The ISB4 is a broadband light source that operates in the near infrared range. It is a turn-key product that can easily be integrated into existing devices that require higher light power.



The ASE ISB4 includes a proprietary driver and controller, each of which enable the light power to easily be adjusted. A Graphical User Interface (GUI) with a USB and RS232 connection allows for external monitoring and adjustment capabilities. The ASE ISB4's light output is powered by a standard FC/APC connector (FC/PC or SMA available upon request).

**This unit is ideal for users requiring higher optical ASE power than what a superluminescent diode (SLED) can provide.**

### KEY FEATURES

- Compact and user-friendly
- Centre wavelength (CW) options: 770nm, 850nm, 930nm, 1050nm, 1300nm, 1340nm, 1390nm, 1430nm, 1480nm, 1550nm, 1615nm, and 1680nm
- ASE can be run from 0% to 100% of maximum rating
- Bandwidth FWHM: 15nm-70nm
- Optical powers: 50mW-100mW
- Light output connector: FC/APC (optional: FC/PC or SMA)
- Multiple communication interfaces: USB and RS-232, Low Degree of Polarization (DOP) outputs available
- 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
- Metrology
- Fiber Optic Gyroscopes
- Industrial and Biomedical Imaging Systems
- Optical Sensing
- Test and Measurement
- Research and Development

### LASER TYPE ORDERING OPTION

- **Low-Degree of Polarization (DOP):** the ISB4 provides under 5% DOP across spectrum. This minimizes polarization sensitivity of fiber sensors, and reduces the effects of polarization dependent loss

