

Infini-Light™

Near-Infrared Stabilized Broadband Fiber-Optic Light Source

System Overview

The Infini-Light™ Stabilized Broadband Source provides a broadband stable light source over a wide wavelength range within the near infrared range for non-telecom applications. It incorporates highly accurate control of high-power luminescence, semiconductor diode sources to achieve superior stability. High speed external modulation allows the use of lock-in amplifiers for high sensitivity measurement and data communications. And the high power and broadband enhance the quality of optical coherence tomography in the medical applications.



Optical Specifications

Wavelength Peak Option	680nm	800nm	980nm	1060nm
Peak Power Density (dBm/nm)	> -23	> -25	> -20	> -20
Total Output Power (mW)	>0.5	>0.5	>1.5	>1.5
Power Stability (15min)	<0.02dB	<0.02dB	<0.02dB	<0.02dB

Mechanical and Electrical Specifications

Dimension: L200×W157×H61 mm.

Weight: < 5 lb.

Enclosure: ABS Case Metal Front Panel.

Optical Connector: FC/APC.

Input Power: 100-240VAC/5VDC Adaptor.

External Tuning: Front Panel Tuning Knob.

Operating Temp.: 10 – 40 °C

Applications

Material Absorption Spectroscopy.

WDM Components Manufacturing and Testing.

Telecomm and Datacomm Systems.

Optical Coherence Tomography.

Optical Fiber Sensors.

Ordering Information

Model Number: IRBL-NIR-xxxx.

680nm: xxxx=0680.

800nm: xxxx=0800.

980nm: xxxx=0980.

1060nm: xxxx=1060.

* Output optical isolator optional depending on availability.

