

Lithium Six Broadband

High power laser emitting multicolor ultra-short pulses

Lithium Six 1050 can be fitted with an optional non-linear conversion module for broadband output generation. This module is based on a LMA-PCF fiber that converts the narrow band high peak power pulse into a high-power broadband output with wavelengths range from 950 to 1200 nm.

Lithium Six 1050 with this optional broadband module provides an exceptional stable source of synchronized broadband stoke signal for B-CARS microscopy.



Features and benefits

- **Low-noise broadband signal:** the low intensity noise of the input signal is preserved by the LMA-PCF fiber ensuring effectively detection of small differential signals
- **Temporally and spatially overlapped multicolor pulses** for a perfect synchronization of the narrowband pump and the broadband signal
- Stable fiber coupling and long-term operation

Applications

- B-CARS microscopy

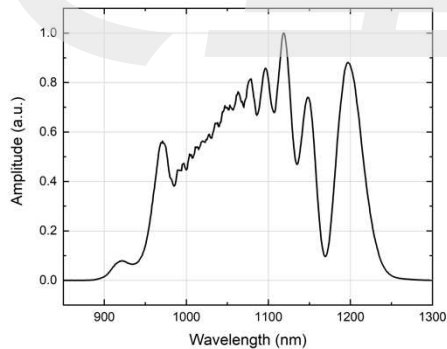
Specifications

Parameters	Lithium Six Broadband
Wavelength range (FWHM)	from 960 to 1220 nm
Bandwidth	up to 260 nm *
Pulse duration	< 200 fs (uncompressed)
Average power	up to 5 W
Repetition rate	80 MHz
Head dimensions	430 X 222 X 114 mm
Weight	8.5 Kg

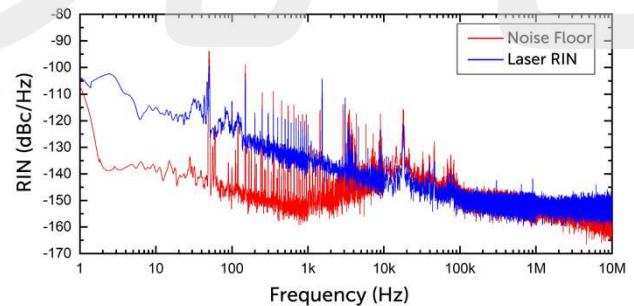
* Narrower spectra are available upon request

Typical performance data of Lithium Six Broadband

OPTICAL SPECTRUM



RELATIVE INTENSITY NOISE (RIN) MEASUREMENT



Specifications are subject to change without notice.