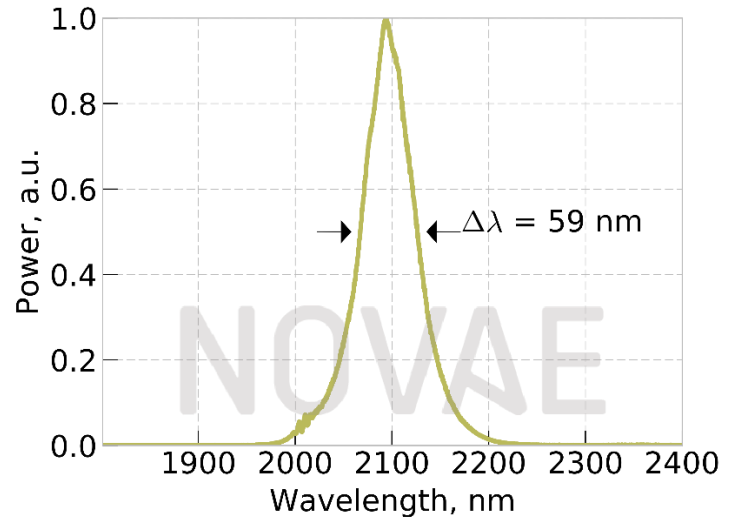
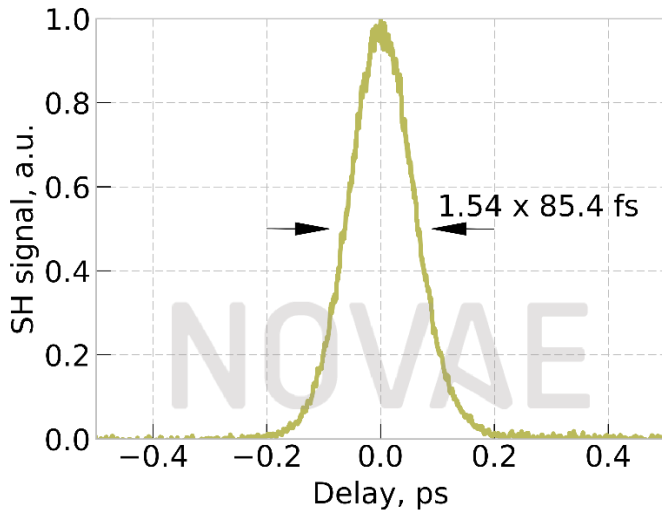


Brevity $\lambda+$

The mid-IR high peak power laser



- **2.1 μm** central wavelength
- High peak power **up to 100 kW**
- **Sub 100 fs** pulses
- **PER > 10 dB**
- 20 MHz repetition rate
- Perfect Gaussian beam

KEY APPLICATIONS

- Nonlinear optics
- Supercontinuum generation
- Harmonic generation
- Pump/probe measurements
- Seed source for high power systems

Brevity $\lambda+$ is a turn-key femtosecond fiber laser emitting at 2.1 μm . The very high peak power (100 kW) allows the use of this laser in a wide range of scientific applications such as nonlinear optics (supercontinuum generation, high harmonic generation) or pump/probe measurements.

Based on a patented seed source, this fiber laser emits transform limited pulses with sub-100 fs pulse duration and a PER larger than 10 dB.

Brevity $\lambda+$

The mid-IR high peak power laser



Optical specifications

| | |
|------------------------|---------------------------------|
| Operating wavelength | 2.1 μm typical |
| Output power | > 150 mW |
| Master repetition rate | 20 MHz typical |
| Pulse duration | 85 fs typical (FWHM) |
| Total power stability | $\pm 1\%$ |
| Laser output | Collimated |
| Beam shape | Gaussian, single mode |
| Polarization state | Linearly polarized (PER > 10dB) |

Mechanical/Electrical specifications

| | |
|-----------------------|---------------------------------------|
| Operation voltage | 100 – 240 V VAC 50/60 Hz |
| System cooling | Air cooled |
| Operating temperature | +20 °C to +30 °C |
| Dimensions (h×w×d) | 177×440×470 mm ³ (×2) |
| Weight | 10 kg (electrical) 13 kg (optical) |

