



## A seeder for the Brilliant B



After more than 20 year's experience with the seeding technique, Quantel is happy to announce **compatibility of the SLM** (Single Longitudinal Mode) **option with the well-known Brilliant B laser.**

Injection seeding reduces the beam linewidth, lengthens coherence, and provides smooth temporal profiles, free of modulation, with very high reproducibility.

The option consists of a single frequency diode pumped Nd :doped laser with faraday isolator coupled into a fibre, a power supply (1U high) and an electronic feedback loop with piezo electric ceramic mounted mirror. The seed beam is injected into the Brilliant B oscillator by the side of the laser body.

The new compactness of the single mode CW diode pumped laser and its delivery through a fibre makes it an ideal option, fully adapted to the well-known compactness, robustness and reliability of Brilliant B oscillators. In accordance with the Brilliant B's ergonomcy, the laser with this option can easily be installed by the user. There is no need for special knowledge or specific training.

Specifications at 10Hz				
Wavelength (nm)	1064	532	355	266
Energy (mJ)	700	290	135	60
Pulse duration (ns)	6	5	5	5
Linewidth (cm <sup>-1</sup> )	0,005			
Jitter (ns)	± 1			
Other specifications	similar to Brilliant B , 10Hz (refer to datasheet)			

Quantel reserves the right to change specifications without notice

**Jitter** : with respect to Q-Switch trigger, at half -width of 500 accumulated shots

**Linewidth** : measured with a slow scan Fabry-Perot etalon

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