

Menhir Photonics AG

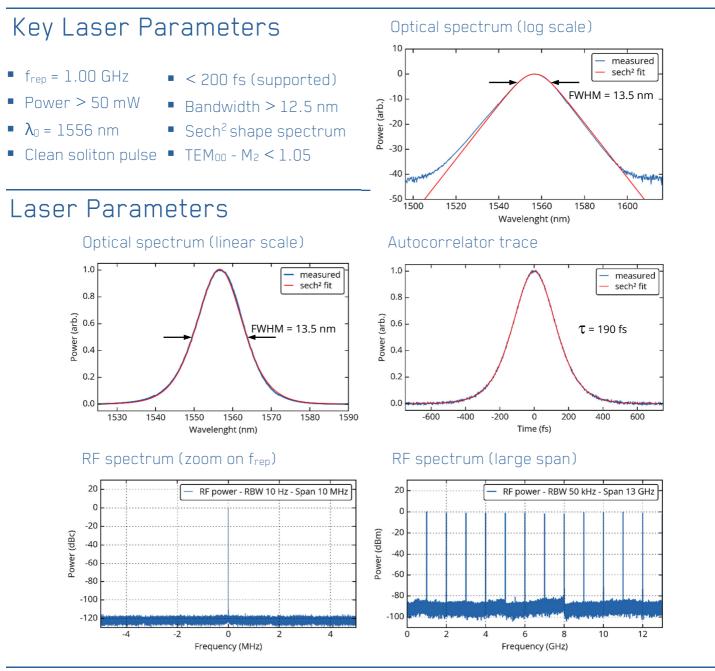
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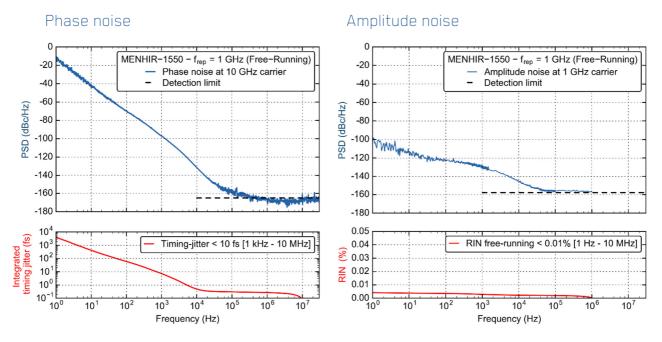
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MENHIR-1550 SERIES - 1.00 GHz

The MENHIR-1550-SERIES is the first industrial-grade femtosecond laser operating around 1550 nm with GHz repetition-rate and ultra-low noise performances. In this document, you can find the full characterization of the same MENHIR-1550 operating at 1.00 GHz. The laser performance, the noise characteristics as well as the options of this laser were tested.



Noise Characterization (free-running)

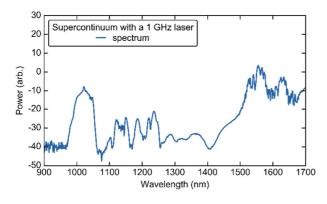


The phase noise of the laser was measured on the 10th harmonic at 10 GHz.

f _c : offset from fundamental	Phase noise (dBc/Hz) 1 GHz carrier 10 GHz carrier		Timing-jitter [fc – 10 MHz]	Amplitude noise RMS
harmonic				[fc - 10 MHz]
10 kHz	< - 150	< - 130	< 1 fs	< 0.01 %
l kHz	< - 115	< - 95	< 10 fs	< 0.01 %
100 Hz	< - 90	< - 70	<100 fs	< 0.01 %
1 Hz	< - 30	< - 10	< 5 ps	< 0.01 %

Possibilites and options





Fast actuator for frep tuning

