

## WHITE PAPERS & APPLICATION NOTES



## **Direct CPA-Free Pulse Amplification**

The whitepaper describes how femtosecond pulses from a Menhir Photonics MENHIR-1030 seeder can easily be amplified using the modular neoYb amplifiers from neoLASE. The advantages of the presented approach lie in a direct amplification which does not require any chirp of the pulse and its plug-and-play modularity. Depending on the required output pulse energy, up to 250 nJ can be achieved using a two-stage geometry which allows for efficient nonlinear frequency conversion, supercontinuum generation or precise material processing. All applications benefit from the ultra-low amplitude between each pulse of the seed laser which is well maintained throughout the amplification scheme.

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