COMING SOON

Reliability redefined

New 30 W DRY cooled femtosecond laser for flat panel display and microelectronics fabrication

FemtoLux30

>30 W at 1030 nm
< 350 fs
Single shot to 4 MHz
Zero maintenance
FemtoLux 30 is a new 30 W femtosecond industrial grade laser build to work 24/7/365 without any interruptions.

INNOVATIVE COOLING SYSTEM

Other lasers of similar optical power use water for cooling, which means additional bulky and heavy water chiller is needed which require periodical maintenance (cooling system draining and rinsing, water and particle filter replacement). Moreover, in the unfortunate event of water leakage, not only laser head but also more expensive equipment could be damaged. FemtoLux 30 laser uses innovative direct refrigerant cooling (DRC) method that do not contain any water inside the laser head and has much higher cooling efficiency. Laser cooling equipment is integrated together with the power supply unit into a single 4U rack mounted housing with a total weight of just <15 kg.

Release date: first half of 2021

PERFECT AND VERSATILE TOOL

To tailor laser for specific applications, FemtoLux 30 laser has a tunable pulse duration from <350 fs to 1 ps and can operate in very broad AOM controlled range of pulse repetition rate from a single shot to 4 MHz. While max energy of >250 µJ, that could be achieved while operating in a burst mode, could ensure higher ablation rates for different materials.

FemtoLux 30 laser is designed as perfect tool for display and microelectronics manufacturing, as well as for micro processing and marking of brittle materials, such as glass, sapphire or ceramics, as well as for highest quality micro processing of different metals and polymers.

Innovative laser control electronics ensures easy control of FemtoLux30 laser, thus reducing time and human resources required for integrating this laser into different laser equipment.

While high laser reliability and zero maintenance requirement will assure uninterrupted laser operation and fast ROI to the end user of the laser equipment.