Technical specification:

Femtosecond laser with GHz burst

Pulsed laser with pulse duration in femtoseconds and repetition frequency of laser pulses in GHz range in the burst mode

- Maximum average laser power - 28 W minimum
- Average power – adjustable, minimum range from 10 % to 100 %
- Central wavelength - ranging from 1020 to 1070 nm
- Pulse duration – adjustable, minimum range from 500 fs to 10 ps
- Intra-burst repetition frequency - in the range from 1 to 2 GHz
- Burst repetition frequency – adjustable, minimum range from 200 kHz to 1 MHz
- Burst duration – adjustable, maximum burst duration must not less than 1500 ns, minimum burst duration must not be more than 150 ns
- Number of pulses in the burst without interruption – adjustable, maximum number of pulses must not be less than 2000 pulses, minimum number of pulses must not be more than 300 pulses
- Maximum energy of pulse inside the burst must not be less than 200 nJ
- Maximum energy of burst of pulses must not be less than 140 µJ.
- Polarisation – linear polarisation
- Beam quality - $M^2 < 1.3$
- Beam circularity >90 %
- Average laser power stability (8 hours) < 1.5% rms
- Cooling included – air or water chiller
- Laser head size limitations – maximum longest dimension 90 cm
- Laser on-off switching included for combination with a galvo scanning head
- Including the burst-on-demand function

- Including delivery to University of West Bohemia (Teslova 11, 301 00 Pilsen)
- Including on-site installation
- Warranty: 12 months