Dragon™ - High Power Ultrafast Amplifier System

Tunable repetition rate ultrafast multipass Ti:sapphire amplifier, up to 15 kHz

Applications

- High harmonic generation (HHG)
- Attosecond studies
- Pumping OPAs and HG units
- Materials research
- Femtochemistry
- Spectroscopy
- THz generation
- Ultrafast Imaging
- Pump probe experiments

Features

- Cryogenic cooling enables highest average powers on the market
- Average power >10W from a single box configuration
- Pulse energies up to 5 mJ
- Repetition rates from 1 to 15 kHz
- Pulse duration of < 25 fs
- Excellent beam quality: M^2 typically 1.2 - 1.3
- Intuitive control software including wavelength, bandwidth, power, and repetition rate control with integrated diagnostics
- One-box configuration with integrated pump lasers and oscillator
- Combination of clean (low pedestal), short pulses and high energies gives higher peak intensities for nonliear processes
- CEP stabilization available
- Custom configurations available

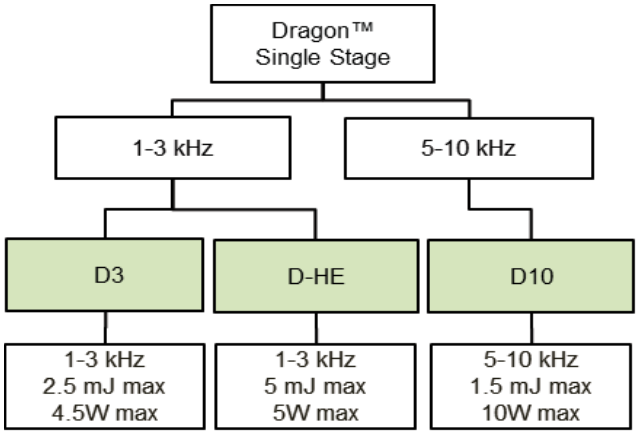
Dragon™ is KMLabs' sub-25 fs, single-stage multipass amplifier. It is a fully engineered and integrated commercial source based on a single rugged opto-mechanical platform. It employs patented (US 6,804,287) cryogenically-cooled amplifier technology, allowing for a continuous trade-off between pulse energy and repetition rate.

Tailor the laser output to the optimum for your experiment.

Dragon™ Unique Features

- Optimized for pumping HHG (KMLabs' XUUS™ product)
- Tunable repetition rate: 1-3 kHz, 5-10 kHz, or 10-15 kHz in a single instrument
- Clean pulses due to cryogenic thermal management
- Sealed, modular stretcher and compressor

Dragon™ Product Family



KMLABS inc. LEADING IN ULTRAFAST

Contact us for full specifications or with questions

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