



Red Wyvern™ - High Energy Ultrafast Amplifier System

Tunable repetition rate ultrafast multistage Ti:sapphire amplifier

Applications

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

Features

- Cryogenic cooling enables highest average powers on the market
- Average power up to 50W
- Pulse energies up to 30 mJ
- Repetition rates from 1 to 10 kHz
- Pulse duration of < 40 fs
- Excellent beam quality: M^2 typically 1.1 - 1.2
- Intuitive control software including wavelength, bandwidth, power, and repetition rate control with integrated diagnostics
- Combination of clean (low pedestal), short pulses and high energies gives higher peak intensities for nonlinear processes
- Custom configurations available



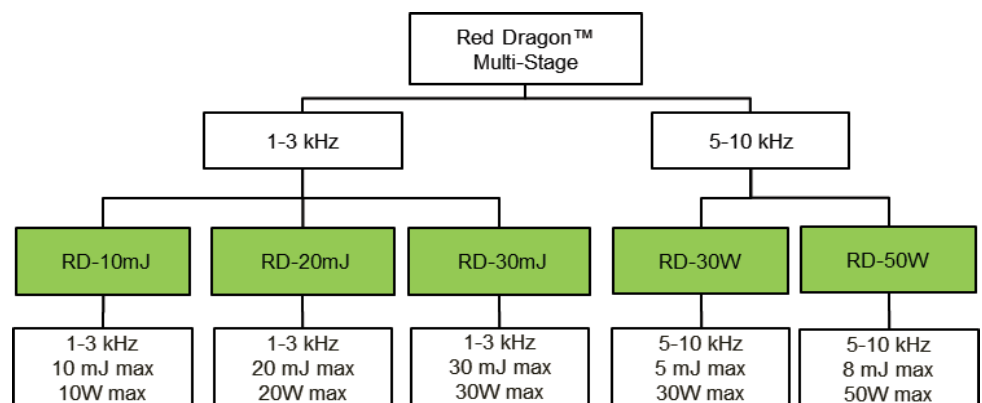
Red Wyvern™ is KMLabs' high-energy system based on a regenerative first stage and power amplifier. It employs patented (US 6,804,287) cryogenically-cooled amplifier technology, allowing for continuous trade-off between pulse energy and repetition rate.

Tailor the laser output to the optimum for your experiment.

Red Wyvern™ Unique Features

- Optimized for pumping high-energy OPA systems
- Tunable repetition rate: 1-3 kHz or 5-10kHz in a single instrument
- Clean pulses due to cryogenic thermal management
- 2nd-generation cryocell with improved reliability and maintainability

Red Wyvern™ Product Family



Contact us for full specifications or with questions