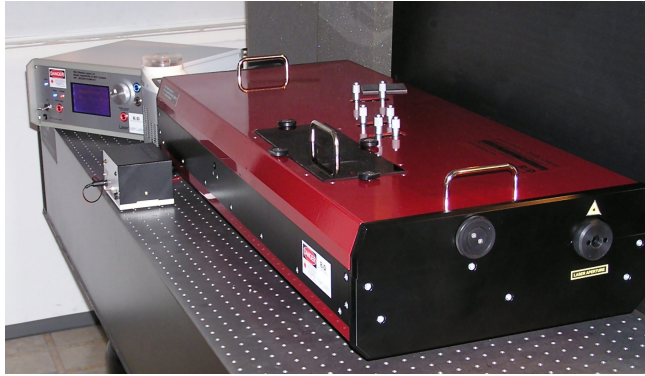




R&D ULTRAFast LASERS LTD.

FemtoRose 100 MDC Compact

Femtosecond pulse single wavelength Ti:sapphire laser



- Stable, easy mode-locking (with starter electronics)
- Soliton-like, nearly transform-limited pulses
- Negative dispersion mirror™ optics – high stability owing to our patented mirror dispersion control™ (MDC) technology
- Built in DPSS pump (2W or 4W at 532 nm) – diode-pumped stability, reliability
- Sealed, purgeable enclosure – reliability, free from dust particles
- Turn-key, truly hands-off operation
- Unites States Patent Nr. 5,734,503

FemtoRose 100 MDC Compact combines a 532 nm pump laser and our patented mirror dispersion controlled mode-locked Ti:Sapphire oscillator into one integrated box. This is a fixed-wavelength version of the FemtoRose 100 MDC TUN laser operating from 810 to 860 nm. This model is available with 2 W and 4 W pump lasers. In this configuration, material dispersion of the gain medium is compensated by a low loss negative dispersion dielectric mirrors. The laser provides mode-locked output powers up to 450 mW when pumped by a 4 W built in 532 nm laser.

Laser applications used:

- Multiphoton microscopy
- Ultrafast spectroscopy
- Seed for CPA systems

System Specifications:

Output Power (2 W pump) > 150 mW
Output Power (4 W pump) > 450 mW
Operation wavelength: ~ 820 nm
Pulse duration at laser output: ~ 150 fs
Repetition Rate: ~ 80 MHz, nominal
Noise < 1 %
Spatial Mode: TEM₀₀
Polarization: Horizontal
Physical Dimensions: 100 x 42 x 18 cm³