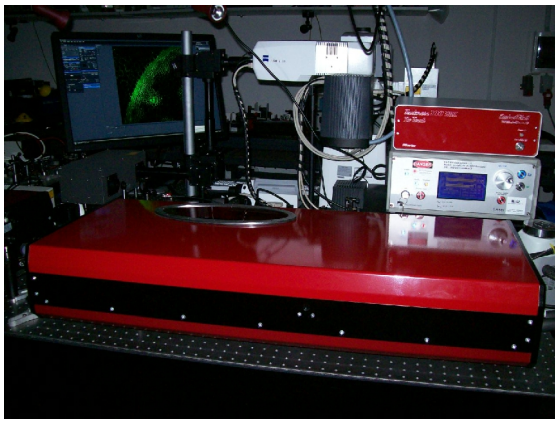
R&D ULTRAFAST LASERS LTD.

FemtoRose 100 TUN/NoTouch

Femtosecond pulse tunable Ti: sapphire laser



- Stable, easy mode-locking (with starter electronics)
- Soliton-like, nearly transform-limited pulses
- Patented Ultrabroadband Chirped Mirror™ optics
  – single optics set from 680 to 1040 nm
- Built in Millennia™ / Verdi™ / Finesse™ pumping (6W, 8W, 10W) – diode-pumped stability
- Sealed, purgeable enclosure
  – reliability, full wavelength coverage
- 15 years of experience
- Labview interface program
- Turn-key, truly hands-off operation (automatic cavity control)

FemtoRose 100 TUN/NoTouch is developed for applications where tunable femtosecond laser pulses of 80-150 fs duration are required, such as nonlinear microscopy or time resolved spectroscopy. Using our patented ultrabroadband chirped mirror (UBCM) optics, the laser can be tuned within the 680-1040 nm regime without changing cavity optics.

System Specifications

Output Power (P_{pump} = 6 W) > 0.7 W (0.9 W typical)

Output Power (P_{pump} = 10 W) > 1.4 W (1.5 W typical)

Tuning Range (P_{pump} = 6 W): 720 nm to 920 nm

Tuning Range (P_{pump} = 10 W): 680 nm to 1040 nm (UBCM optics)

Pulse duration at laser output: ~80 fs to ~150 fs (adjustable)

Repetition Rate: ~76 MHz, nominal

Noise < 1 %

Beam Diameter at laser output: ~ 0.8 mm

Spatial Mode: TEM00

Polarization: Horizontal

Physical Dimensions: 100 x 42 x 18 cm^3

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