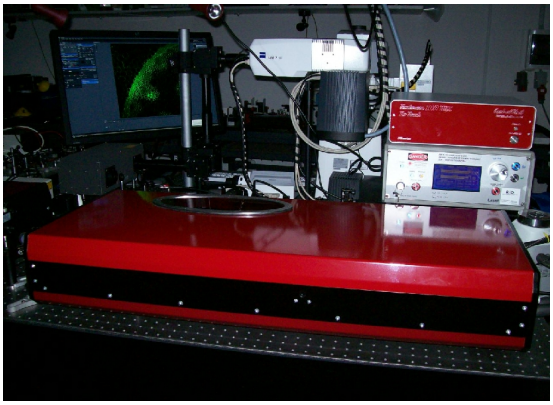
R&D ULTRAFAST LASERS KFT.

FemtoRose 100 MDC Compact/NoTouch

Femtosecond pulse single wavelength Ti:sapphire laser



- Stable, self-starting modelocking
- 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 (4W at 532 nm) – diode-pumped stability, reliability
- Sealed, purgeable enclosure – reliability, free from dust particles
- Turn-key, truly hands-off operation (automatic cavity control)

FemtoRose 100 MDC Compact/NoTouch 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 our FemtoRose 20 MDC laser operating at around 800 nm. The central wavelength of the laser (typically set to 820 nm) is set by a birefringent filter element (BRF). The pump power and the cavity end mirrors can be set by a computer via an RS232 interface. The No Touch version includes an electronic control unit which results in a real hand free operation. 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

System Specifications:

Power requirement: ~ 230 V AC

Output Power (4 W pump) > 450 mW (typical 500 mW)

Operation wavelength: ~ 820 nm

Pulse duration at laser output: < 150 fs

Spectral bandwidth: > 6 nm

Repetition Rate: ~ 76 MHz, nominal

Spatial Mode: TEM00

Polarization: Horizontal

Physical Dimensions: 100 x 42 x 18 cm^3

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