FEMTOLITE FD/D-FD-1000S

Product Features

- Fiber-delivered fs pulse by optical cable
- Ideal for excitation of YFP,
 RFP, RCaMP, and others for imaging at a depth > 500 μm
- Attachable directly to existing microscopes
- Integrated high speed blanking (< 1 µs) and variable power function
- All-in-one-box design



Applications

- Fluorescence Protein Imaging
- In-vivo Imaging

Specifications

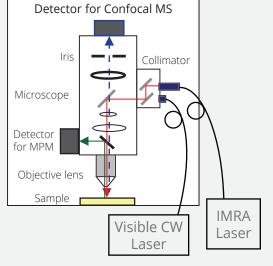
Wavelength	1045 nm
Average Power	≥ 1 W
Pulse Duration	≤ 200 fs; either at sample or fiber
Repetition Rate	50 ± 5 MHz
Power Modulation	Modulator included (speed < 1 μs)
Beam Quality	$M^2 < 1.3$
Laser Size	500 x 540 x 270 mm ³
Operational Temperature	20 - 30 °C
Fiber Length	3 - 4 m, Φ 7.7 mm flexible armored cable

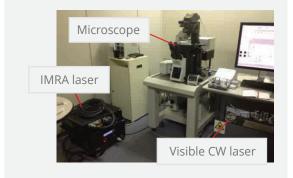


Brain nerve cell of mouse (Td-Tomato)

Femtolite FD/D-FD-1000S Ti:S laser $\lambda = 1045 \text{ nm}, P_{obj} = 180 \text{ mW}$ $\lambda = 920 \text{ nm}, P_{obj} = 330 \text{ mW}$ Undesired Autofluorescence $Depth = 300 \text{ } \mu\text{m}$ $Depth = 500 \text{ } \mu\text{m}$ Courtesy of Prof. Miyawaki lab at RIKEN in Japan

Add-on feature for microscope







FD/D-FD-1000S Warning Label



 $\underline{\text{NOTE:}}$ Specifications and features may change without notice