

Femtolute FD/D-FD-1000S

- **Fiber Delivery**
- **> 1 W output**
- **≤ 200 fs at 1045 nm**
- **High Speed Power Modulation**



| | Specification |
|-------------------------|---|
| Center wavelength | 1045 \pm 10 nm |
| Average power | >1.0 W |
| Pulse duration | ≤ 200 fs either at sample or fiber output |
| Repetition frequency | 50 \pm 5 MHz |
| Power modulation | AOM included (Modulation speed: <1 μ s) |
| Beam quality (M^2) | <1.3 |
| Cooling | Air-cooling |
| Laser Size | 500(W) x 540(D) x 270(H) mm |
| Operational temperature | 20-30°C |
| Fiber length | 3-4 m, Φ 7.7 mm flexible armored cable |

Multiphoton Microscopy Applications

- **Directly attachable to existing microscopes**
- **Ideal for excitation of YFP, RFP, RCaMP, and others for imaging at a depth >500 μm**
- **High speed blanking (<1 μs) and variable power function integrated**
- **No need for optical table**

Add-on feature for microscope

Brain nerve cell of mouse (Td-Tomato)

| | Femtolite FD/D-FD-1000S $\lambda = 1045 \text{ nm}$, $P_{\text{obj}} = 180 \text{ mW}$ | Ti:S laser $\lambda = 920 \text{ nm}$, $P_{\text{obj}} = 330 \text{ mW}$ |
|---------------------------|--|--|
| depth = 100 μm | | |
| depth = 300 μm | | |
| depth = 500 μm | | |

Courtesy of Prof. Miyawaki lab at RIKEN in Japan

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Specification and features may change without notice

