

bright.

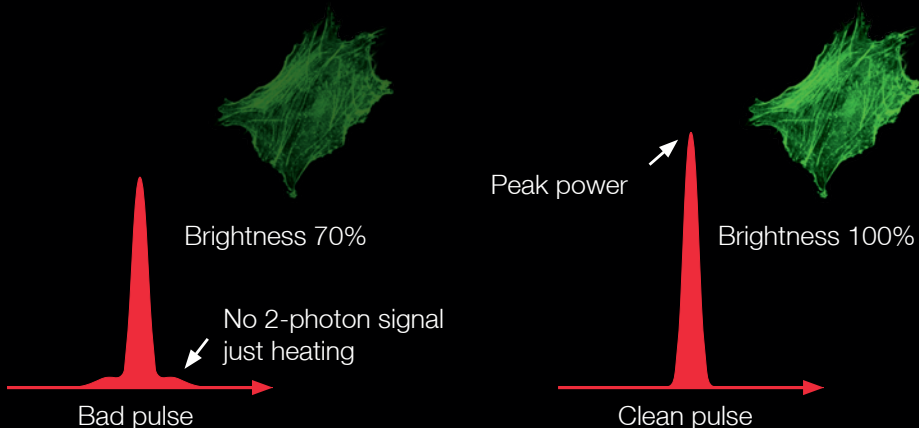
Flexible, turn-key, and optimized for 2-photon microscopy

920 nm

Femtosecond Fiber Laser



Brighter 2-Photon Images with Clean-Pulse Technology



Peak power is brightness!

Convince yourself and apply for your own free live demo!



www.toptica.com/bright

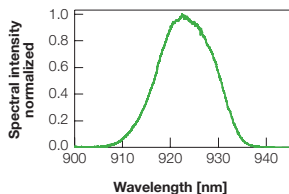
FemtoFiber ultra 920



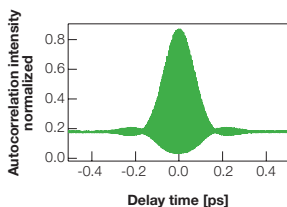
Class 4 Laser Product EN 60825-1:2014.
Visible or invisible laser radiation. Avoid direct exposure to beam. WARNING — Class 4: DANGER — visible or invisible laser radiation when open. Avoid exposure to the beam.

Laser Specifications*	
Center wavelength	920 nm
Pulse duration	< 100 fs
Average output power	> 1.5 W
Repetition rate	80 MHz
Motorized dispersion precompensation (GDD)	-40000 .. +1000 fs ²
Integrated power control (AOM, optional)	> 1 MHz modulation bandwidth
Power in main pulse	> 98%
Beam shape	TEM ₀₀ , M ² < 1.2
Beam divergence	< 1 mrad
Beam size (1/e ²)	Ø 1.0 mm (typ.)
Linear polarization	100:1 (> 20 dB), vertical
Output coupling	Free space
Dimensions laser head	77 x 165 x 300 mm ³ (H x W x D)
Weight laser head	< 5 kg
Dimensions supply unit	131 x 484 x 600 mm ³
Weight supply unit	< 20 kg
Power supply	24V DC (AC power supply optionally included)
Power consumption	< 150 W
PC Interface	Ethernet, USB
Environment temperature	19 - 25 °C (operating), 0 - 40 °C (storage and transport)
Environment humidity	Non-condensing

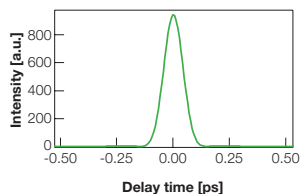
*) Subject to change without notice, **) sech² fit



Typical emission spectrum (linear).



Interferometric autocorrelation.



Retrieved pulse shape with typ. 99% of the laser power in main peak.