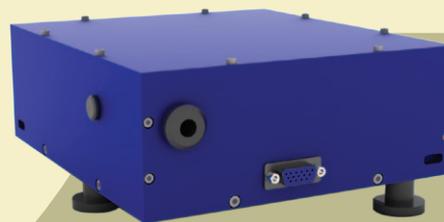




Femtosecond Fiber Lasers



YFOA Yb-doped fiber laser system

YFOA Fiber Laser

- Available wavelengths: 1030-1064 nm (fixed)
- Average power up to 5 W
- Peak power up to 260 kW
- Small footprint
- Turn-key operation
- Highly stable

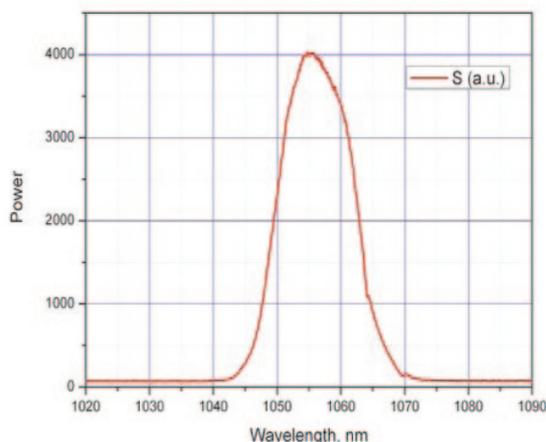
Product overview

The YFOA femtosecond fiber laser is designed for stable generation of an ultra-short laser pulse train. The device contains Yb-doped active fiber, pump diodes, polarization control and dispersion control elements, electronic power supply and control system. The laser also has an SMA sync output for triggering external devices, as well as another SMA for pulsed mode status. The YFOA has proven its reliability as a seed oscillator for amplifier systems (such as the TETA system), as well as a stand-alone pulse generator. The YFOA may be ramped up to higher average power ratings for power-demanding applications.

YFOA technical specifications

	YFOA-100	YFOA-200	YFOA-5000
Pulse duration (FWHM)	<200 fs		<350 fs
Available wavelengths*	1030; 1040; 1053 or 1064 nm		
Average output power	>100 mW	>200 mW	>5000 mW
Peak power	>8.5 kW	>17 kW	>260 kW
Repetition rate (fixed)	60±5 MHz		
Spatial mode	TEM00		
Polarization	linear, horizontal		
Output type	free-space		
Optical unit, mm	200x200x70	200x200x100	350x220x120
Power supply unit, mm	230x200x90	230x200x130	470x385x155

* - please select with order; other wavelengths are available upon request.



Typical spectrum of the YFOA laser system

Possible application of the YFOA fiber lasers:

- Seed oscillator
- THz radiation generation
- MPE microscopy
- Metrology
- «Pump-probe» spectroscopy
- Semiconductor device testing
- Supercontinuum generation
- Optical coherent tomography