

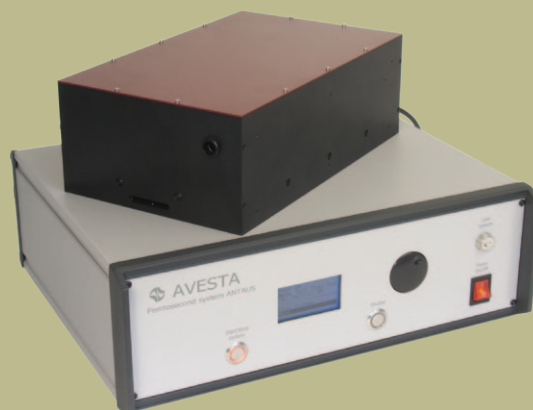


Femtosecond Fiber Lasers



ANTAUS Fiber Laser

- >5 W average power
- >2 uJ pulse energy
- Small footprint
- Turn-key operation
- Highly stable



The ANTAUS femtosecond fiber laser

Product overview

The ANTAUS fiber laser system features high pulse energy along with fast repetition rate, which is an ideal combination for subtle material processing applications, as well as for all kinds of scientific research. The system is an all-fiber oscillator+amplifier with a free-space final pulse compressor. Such design architecture ensures greater stability and real turn-key operation with no maintenance. The system does not require any water-cooling. The repetition rate of the system may be modulated via an optional AO pulse picker.

The laser is already being used by our customers as an OEM laser source in ophthalmology (in LASIK-type eyesight correction apparatus), as well as for THz studies, surface modification, two-photon polymerization techniques and many more.

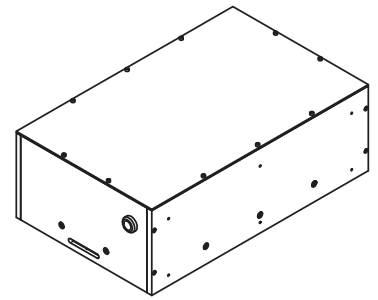
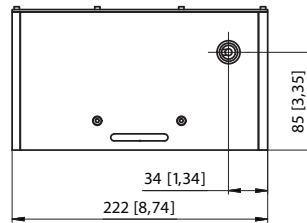
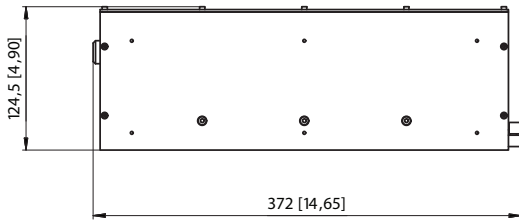
	ANTAUS-2/2.5
Pulse duration (FWHM)	<350 fs
Available wavelengths*	1030; 1040; 1050 nm
Pulse energy	>2 uJ
Average output power	>5 W
Pulse repetition rate**	2.5 MHz
Spatial mode	TEM ₀₀
Polarization	linear, horizontal
Output type	free-space
M ²	<1.2
Long-term power stability (12 h)	<1% rms
Optical unit	350x220x120 mm
Power supply unit	470x385x155 mm

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

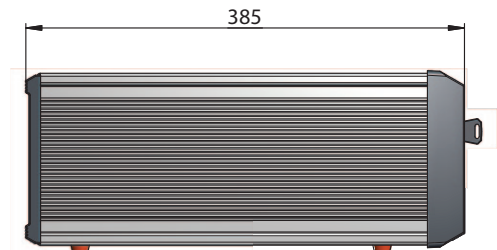
** - AO output pulse picker is available upon request, single-shot to max rep rate.



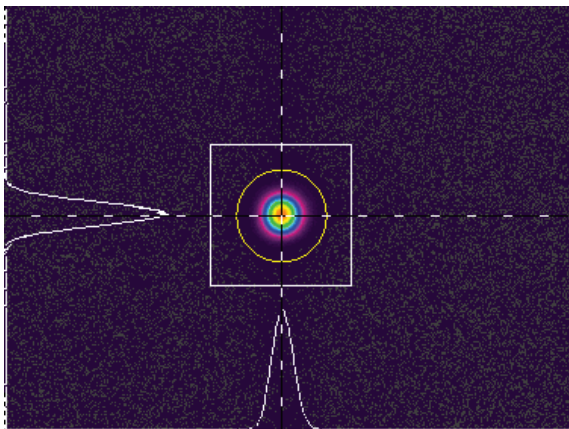
Optical head



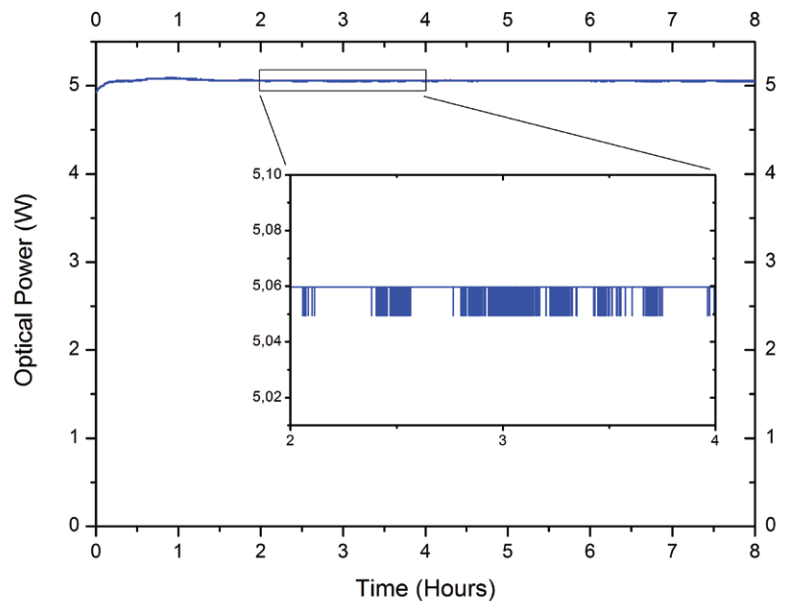
Power supply and control unit



ANTAUS (mm)



ANTAUS' beam profile



Long-term power stability graph at ANTAUS output