activeTwo-15

Ultrafast Thulium Fiber Laser at 2µm

Member of the TRUMPF Group

Drive the future of silicon processing!

Combining the unique capabilities of **ultrafast** Thulium lasers within a modular design, the **activeTwo-15** redefines efficiency, versatility and serviceability while offering unique specifications at **2 µm** central wavelength. This laser is made to be seamlessly integrated into your processes, harnessing cutting-edge technology to allow for the highest productivity at reliable quality.

15 W	1980 nm	75 µJ	Single Shot – 2.5 MHz	400 fs – 700 ps

- Output prepared for connection to free space or fiber beamguiding system
- Externally controllable AOM for pulse selection

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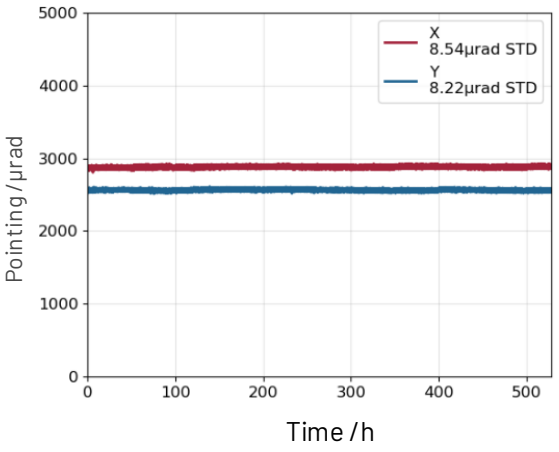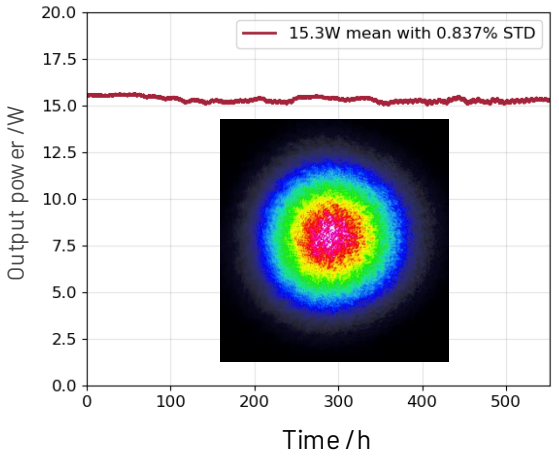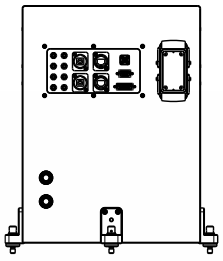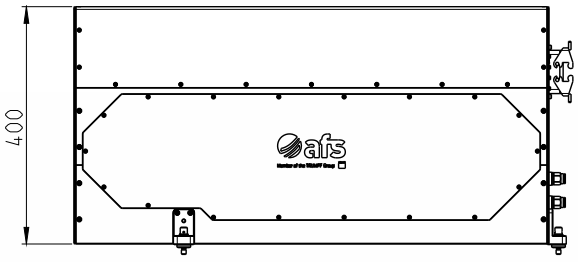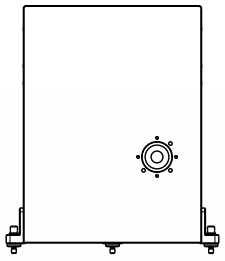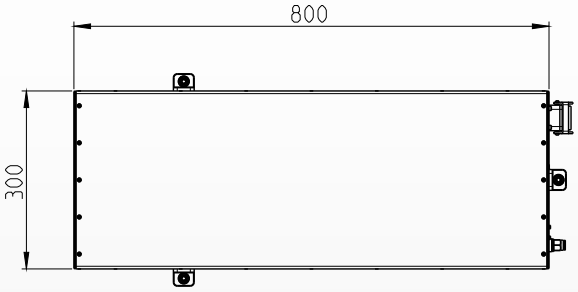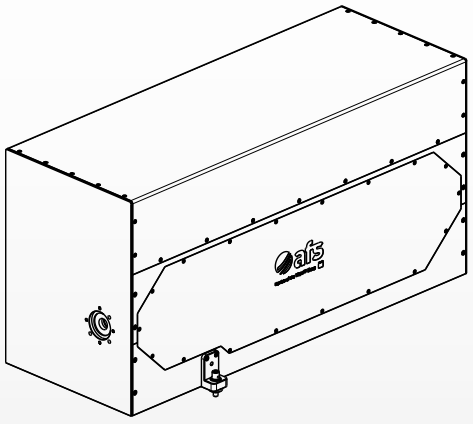
Central wavelength	approx. 1980 nm
Repetition rate	single shot to 2.5 MHz
Pulse energy	up to 75 µJ (at up to 200 kHz)
Average power	up to 15 W
Pulse duration	<400 fs – 3 ps adjustable, or up to 700 ps fixed
Polarization	linear
Beam quality	close to diffraction-limited, $M^2 < 1.3$
RIN slow (average power)	<1% RMS [1/(24 hours - 1 Hz]
RIN fast (pulse energy)	<2% RMS [1 Hz - $f_{rep}/2$]
Beam pointing	<10 µrad RMS
Dimensions & Mass	800 mm x 300 mm x 400 mm, <100 kg
Logging	logging of all operation parameters via control software, remote monitoring and service access
Additional features	turnkey reliability, software-controlled parameters, optical isolation, RTC6 interface, software-API