

Starzz

Custom OPCPA system

Compatible with any sub 2 ps Yb pump

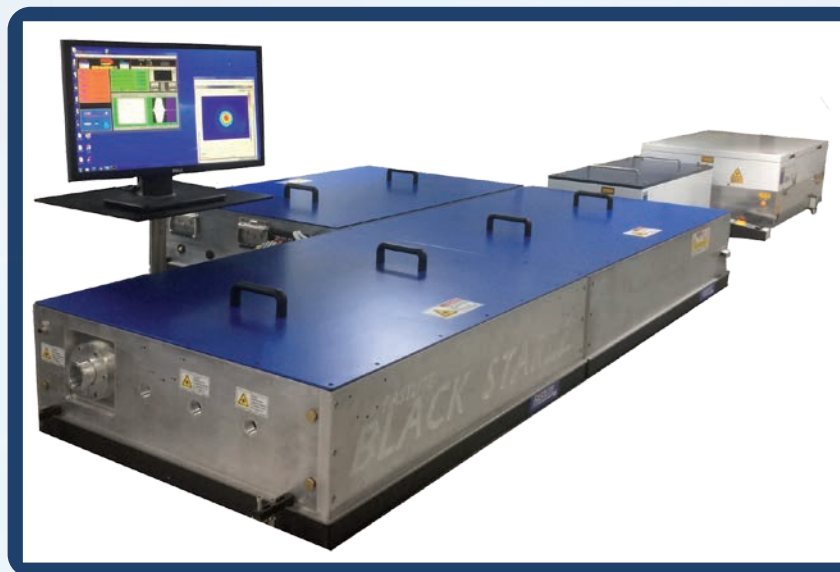
Few cycle pulses

Record CEP stability

Multiple IR or MIR outputs

Integrated diagnostics

From W to kW-class pumps



The **Starzz** series of high flux MIR OPCPA is the perfect combination of industrial Ytterbium amplifiers with FASTLITE ultrafast expertise.

With its design based around FASTLITE landmark technologies for ultimate control and flexibility, the **Starzz** delivers ultra-stable IR and MIR pulses with an unprecedented simplicity, thus drastically reducing experiment times for the most demanding applications.

Applications

HHG

XUV spectroscopy and imaging

Attosecond science

Key Features

Unique performances and stability

Dry air, purge-compatible enclosure

Upgradable design

Starzz

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Specifications

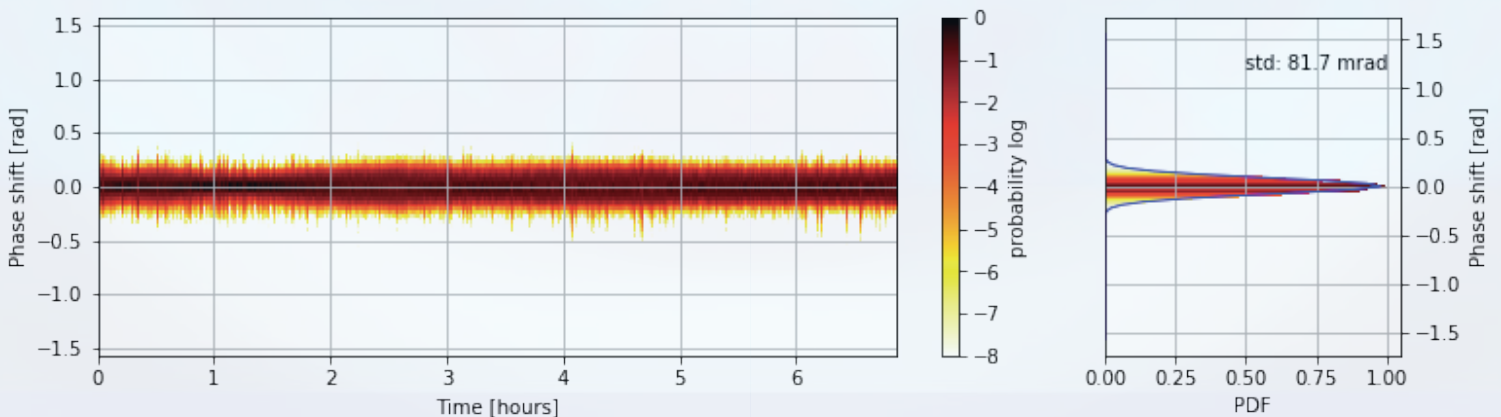
Repetition rate	1 Hz - 1 MHz
Central wavelength (fixed)*	1.4 - 4 μm
Typical output energy **	up to 10 % of pump energy
Pulse duration range	20 - 100 fs
CEP stability	150 mrad rms, single shot
Pulse to pulse stability	1.5 times the pump stability
Long term stability	1.5 times the pump stability

* Other wavelengths and tunability options available upon request

** Compatible with any sub 2 ps Yb pump laser. Contact FASTLITE for additional information

Options

Additional outputs	On demand, from UV to MIR
Post compression stage	For pulse durations down to single cycle



7 h long CEP stability (3.1 μm , 15 W, 100 kHz, 82 mrad rms, non averaged)