

Ultrafast - Shaping - Measurement - Control

## red & black STARZZ High flux MIR OPCPA

Sub 50fs MIR pulses at 100kHz

Record CEP stability



The **STARZZ** series of high flux MIR OPCPA is the perfect combination of Ytterbium amplifiers industrial quality and power with FASTLITE ultrafast expertise. With its design based around FASTLITE landmark technologies for ultimate control and flexibility, the **red & black STARZZ** deliver up to 20W of few-cycle and CEP-stabilized IR pulses at 100kHz with an unprecedented simplicity, thus drastically reducing experiment times for the most demanding applications.

# Applications Key Features HHG All collinear geometry XUV spectroscopy & imaging Sub 150mrad single shot CEP stability Attosecond science Dry air, purge-compatible enclosure

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# red & black STARZZ

## **High flux MIR OPCPA**

## **Preliminary specifications**

	red STARZZ	black STARZZ
Repetition rate	100 <i>kHz</i>	
Central wavelength selection range	1,4 - 1,75 μm fixed	2,5 - 4.0 μ <i>m</i> fixed
Output power, single output with 100W pump with 200W pump	10 W 20 W	7.5 W 15 W
Pulse duration	< 50 <i>fs</i>	
CEP single shot stability	< 150 mrad rms	
Pulse to pulse stability	<1.5 %rms	
	options	
Tunability	yes	
Secondary output central wavelength pulse duration output power with 100W pump with 200W pump CEP stability	2,5 - 4,0 μm < 100 fs 5 W 10 W n	1,4 - 1,75 μm < 100 fs 5 W 10 W ο

Fringeezz

integrated CEP detector

### Included exclusive technologies



#### **Available diagnostics**



1-5µm spectrometer

1-9µm scanning FROG

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