FASTLITE

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

HHG

XUV spectroscopy & imaging

Attosecond science

Key Features

All collinear geometry

Sub 150mrad single shot CEP stability

Industrial-grade Yb pump

Dry air, purge-compatible enclosure

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Preliminary specifications

	red STARZZ	black STARZZ
Repetition rate	100 *kHz*	
Central wavelength selection range	1,4 - 1,75 *µm* fixed	2,5 - 4.0 *µm* fixed
Output power, single output		
with 100W pump	10 W	7.5 W
with 200W pump	20 W	15 W
Pulse duration	< 50 *fs*	
CEP single shot stability	< 150 mrad rms	
Pulse to pulse stability	<1.5 *%rms*	
options		
Tunability	yes	
Secondary output		
central wavelength	2,5 - 4,0 *µm*	1,4 - 1,75 *µm*
pulse duration	< 100 fs	< 100 fs
output power		
with 100W pump	5 W	5 W
with 200W pump	10 W	10 W
CEP stability	no	

Included exclusive technologies

100kHz Dazzler

Octopuzz

Sync unit

Big Brozzer

multi-channel data acquisition system

Fringeezz

integrated CEP detector

Available diagnostics

Mozza

1-5µm spectrometer

Frozzer

1-9µm scanning FROG