

twin STARZZ High flux MIR OPCPA

Sub 100fs tunable MIR pulses at 100kHz

Simultaneous signal & idler outputs

Dual ps and fs mode within a click



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 **twin STARZZ** delivers up to 20W of tunable IR pulses at 100kHz with an unprecedented simplicity, thus drastically reducing experiment times for the most demanding applications.

Applications

2D-IR Spectroscopy

Time & Frequency-resolved spectroscopy

Molecular science

Key Features

All collinear geometry

Wavelength extensions available

Industrial-grade Yb pump

Dry air, purge-compatible enclosure

twin STARZZ

High flux MIR OPCPA

Preliminary specifications

	twin STARZZ
Repetition rate	100 kHz
Central wavelength tunability range	signal 1,4 - 1,75 μm and idler 2,5 - 4.0 μm
Output power signal & idler combined <i>with 50W pump</i> <i>with 100W pump</i>	10 W at peak 20 W at peak
Pulse duration <i>in fs mode</i> <i>in ps mode</i>	<50 - 100 fs 1.5 ps
Pulse to pulse stability	< 1.5 %rms
DFG option	
Tunability range	5 - 12 μm
Output power <i>with 50W pump</i> <i>with 100W pump</i>	500 mW at peak 1 W at peak
Pulse duration <i>in fs mode</i> <i>in ps mode</i>	< 100 -200 fs 1.5 ps

Included exclusive technologies



100kHz Dazzler



Octopuzz
Sync unit



Big Brozzer
multi-channel data acquisition system

Available diagnostics



Mozza
1-5 μm spectrometer



Frozzler
1-9 μm scanning FROG