

## ORPHEUS twins

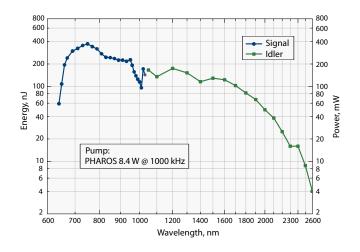
## Two Independently Tunable Optical Parametric Amplifiers



## **FEATURES**

- Two OPA units in a single compact housing
- 210 nm 16 µm tunable wavelength
- Single pulse 1 MHz repetition rate
- Up to 0.4 mJ pump energy (2 mJ upon request)
- Broadband and short-pulse (<100 fs) versions available
- Possibility of generating CEP stable mid-infrared output
- Integrated spectrometers for monitoring the output wavelength of OPA

ORPHEUS-Twins – two independently tunable optical parametric amplifiers designed for flexible pump parameters and OPA configuration. The two channels can be separately configured to be a version of either ORPHEUS, ORPHEUS-ONE, ORPHEUS-F or even ORPHEUS-N. Both OPA units are integrated into a single housing and share the same white light seed for amplification. The design of this OPA enables hands free wavelength tuning, optional automated wavelength separation and the possibility of generating broad band mid-infrared radiation, in the region of 4  $\mu m$  – 16  $\mu m$ , with a passively stable Carrier Envelope Phase (CEP).



## SPECIFICATIONS

PHAROS or CARBIDE
B μJ – 2 mJ
Single pulse – 1 MHz
Choice between ORPHEUS, ORPHEUS-F or ORPHEUS-ONE configurations
Depends on the configuration – check the specifications of the chosen models
Depends on configuration, up to 100 – 500 cm <sup>-1</sup>
Depends on configuration, down to 40 fs
Эере

Dimensions	W × L × H (mm)
Full dimension of the ORPHEUS Twins, including wavelength separation	810 × 430 × 164
Full dimensions of the PHAROS+ORPHEUS Twins system with beam routing units	910 × 850 × 215