

OPA : Optical Parametric Amplifier

The Femto Easy OPA offers output wavelength flexibility from 640 nm to 2.6 μ m, as well as FTL pulse duration tuning (via spectral bandwidth adjustment), from an input pump laser at 1 μ m up to 50 W. It is a compact and easy to use design, offering hands-free operation. This OPA system also offers advanced online monitoring capabilities, such as beam profile, spectrum and pulse duration measurements, thanks to the unique Femto Easy expertise in ultrafast lasers characterization (temporal, spectral and spatial).



Key features

- ✓ Compact design
- ✓ High conversion efficiency
- ✓ Long-term stability
- ✓ Fully automated, hands-free operation
- ✓ Tunable spectral output
- ✓ Tunable FTL pulse duration (option)
- ✓ Integrated beam profile measurement monitoring
- ✓ Integrated spectrum measurement monitoring (option)
- ✓ Integrated pulse duration measurement monitoring (option)

Specifications

Input	
Pump wavelength	1030 / 1064 nm
Input power	up to 50 W
Repetition rate	50 kHz to 3 MHz
Energy	10 to 100 μ J
Output	
Pulse duration	50 ... 500 fs
Wavelength (Signal)	640 - 1000 nm
Wavelength (Idler)	1040 - 2600 nm
Power and energy	dependent on pump laser

Dimensions

