超快雷射
Ultrafast Laser

THALES

Alpha 鈦藍寶石雷射
Alpha kHz Ultrafast ti:sa Series



Applications

- Attosecond physics
- High order harmonic generation
- Time resolved spectroscopy
- High energy OPA pumping

Output Specifications *1

Repetition rate	1 kHz	5 kHz	10 kHz
Average Power	Up to 20 W	Up to 40 W	Up to 30 W
Energy per pulse	Up to 20 mJ	Up to 8 mJ	Up to 3 mJ
Wavelength (nm)		800	
Pulse duration (fs)		Down to 25 (with Dazzler option)	
Pulse to pulse stability (% rms)		1.3	
Ns pre-pulse contrast ratio		Up to 10^7 : 1	
Picosecond contrast ratio		Up to 10^8 : 1	
ASE		Up to 10^{10} : 1 (with XPW option)	
M^2		< 1.5	
Pump system		Jade 2 (1-2kHz), ETNA and/or ETNA HP (3-10kHz)	

*1. Other configurations available on request. Specifications are dependant on the chosen configuration and options

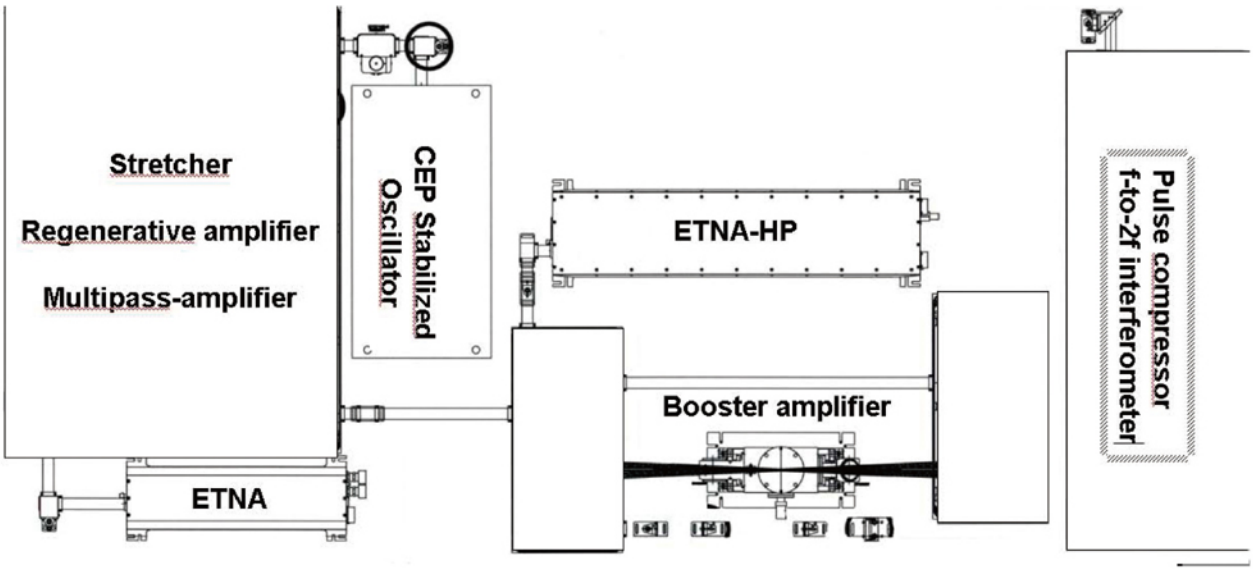
Features

- Up to 40 W average power !
- 1 to 10 kHz repetition rate
- Pulse duration down to 25 fs
- Unsurpassed energy stability
- Fully diode-pumped with JADE 2, ETNA, ETNA HP
- Cep stabilization option available with regenerative amplifier

Available Options

- Carrier Envelop Phase Stabilization (CEP)
- Crossed Polarized Wave (XPW)
- Closed Loop Beam Pointing Stabilization Units

ALPHA CEP stabilized 5kHz @ 15 W Layout



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