

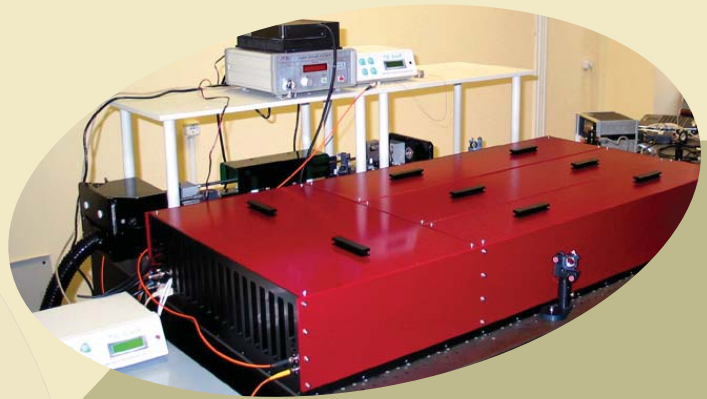


Amplifiers



Cr:Forsterite Regenerative

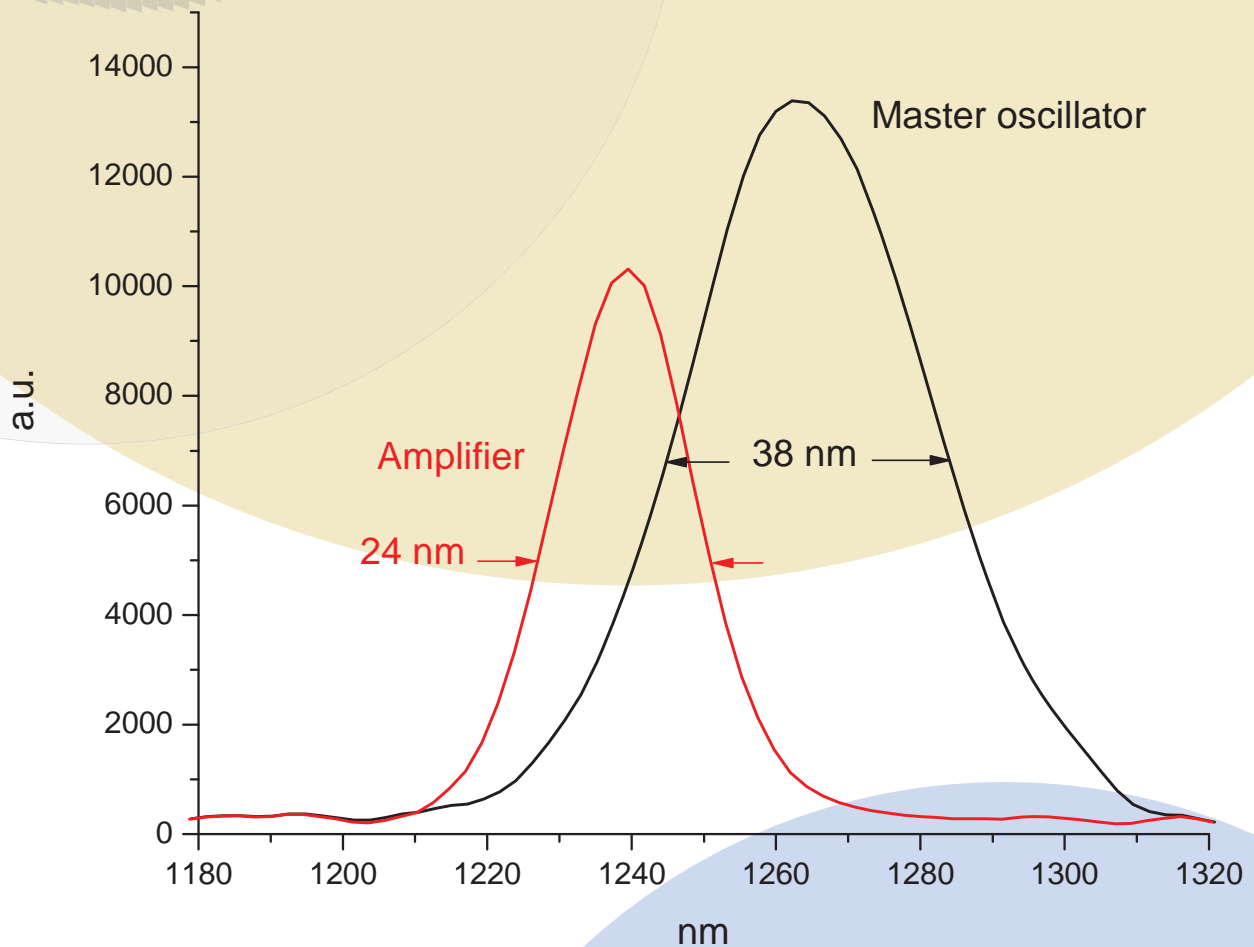
- Pulse duration <100 fs
- Wavelength: 1230 nm
- Single-box design



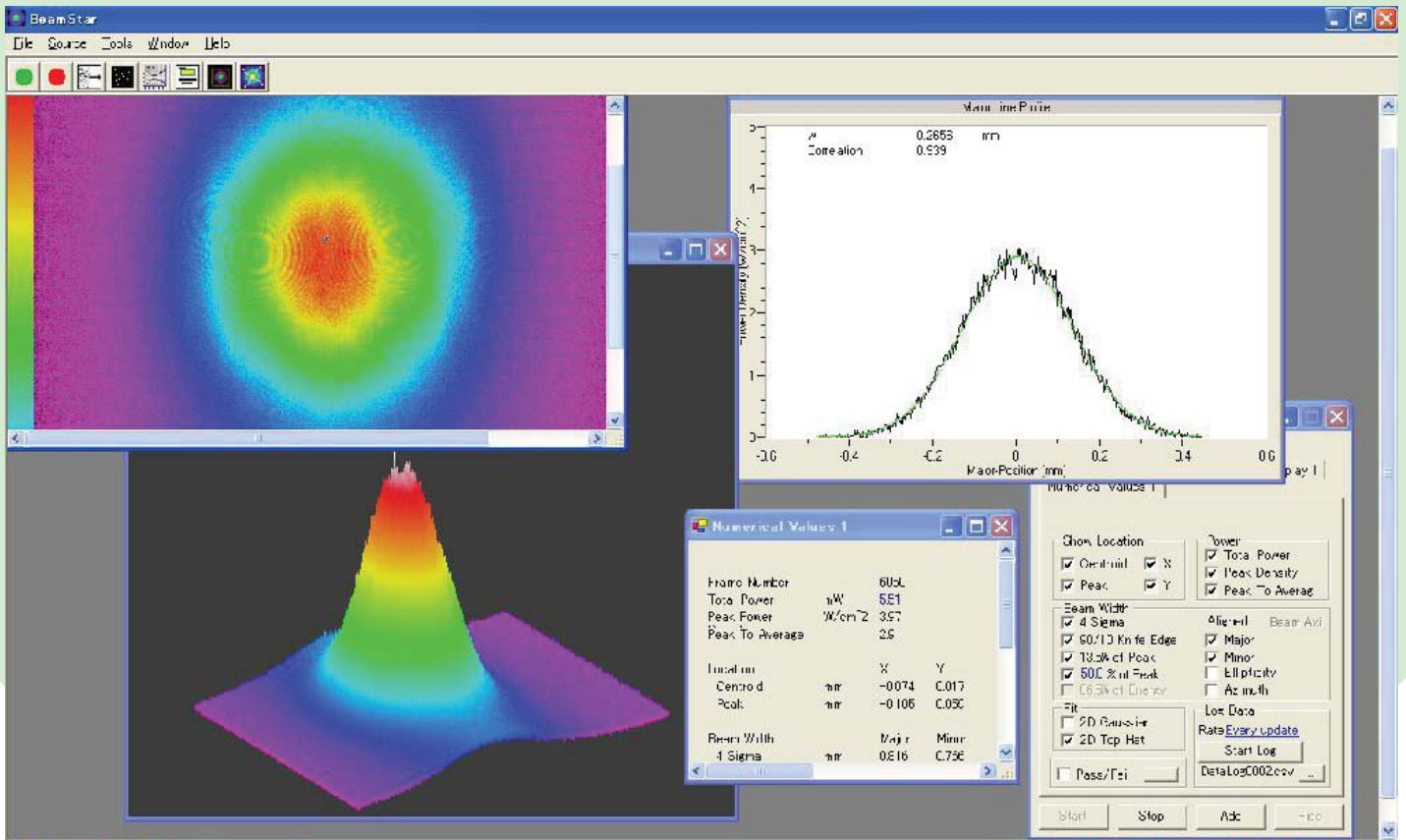
Cr:Forsterite regenerative amplifier FREGAT-200

Product overview

The FREGAT family of Cr:Forsterite femtosecond amplifiers are based on unique active medium and radiate fs pulses around 1230-1240 nm. The system includes pulse stretcher, regenerative amplifier, synchronization and delay generator, pulse compressor, seed oscillator with fiber pump laser and amplifier pump laser.



Spectra of FREGAT-200 system



Output beam profile. CCD camera 640x480

FREGAT technical specifications

	FREGAT-200	FREGAT-600	FREGAT-1000
Pulse duration, fs	<100	< 100	< 100
Wavelength, nm	1230	1230	1230
Energy, mJ	> 0.2*	> 0.6*	> 1.0*
Pump energy (1064 nm, <200 ns), mJ	10	30	40
Repetition rate, Hz	1000	10, 50, 100	10, 50

* - depends on the pump laser