

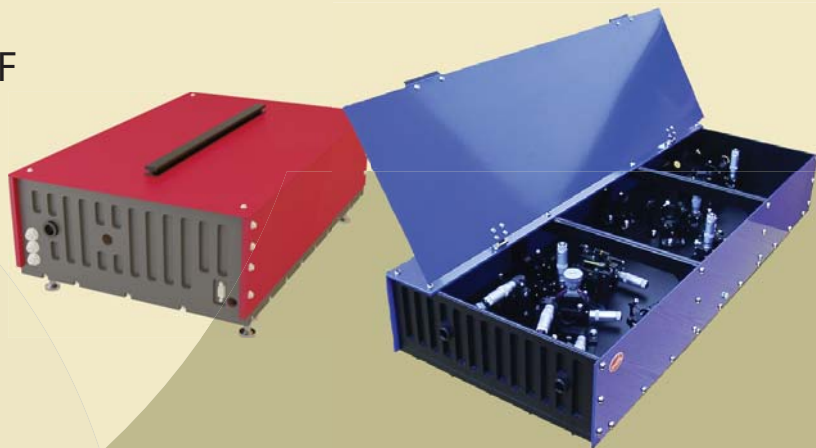


Femtosecond Solid-State Lasers



Cr:Forsterite Femtosecond Laser CrF

- Wavelength range: 1230-1270 nm
- Output power up to 250 mW
- Integrated pump source option
- Short pulse duration down to <70 fs
- Electromagnetic starter



CrF-65 femtosecond laser and LF-100 CW laser

Product overview

The CrF-65 chromium-forsterite laser from Avesta offers unique active media that radiates 65-fs pulses around 1250 nm. The laser features integrated Peltier TC with control unit for crystal cooling to low temperatures for higher average power generation and precise temperature control. Electromagnetic starter is also included for mode-locking observation and restoration at volatile lab temperature conditions.

The CrF-65P version integrates a 10 W fiber pump laser and control unit. The 1250 nm region offers new horizons for microscopy where fs pulses conquer new heights each year. CW version of the CrF-65 is available separately as the LF-100 laser.

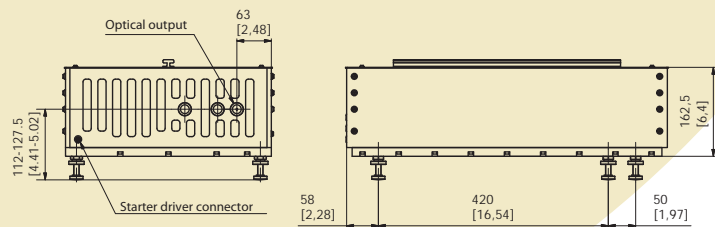
The CrF-65P laser can also be used as a seed oscillator for building high power Cr:F amplifiers.

Possible application of the Cr:F laser:

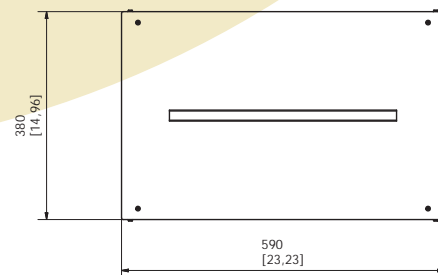
- Seed oscillator for amplifiers
- Multi-photon excitation microscopy
- Pump-probe spectroscopy
- Generation of terahertz radiation
- Time-resolved spectroscopy
- Optical coherent tomography

CrF technical specifications

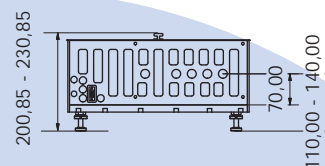
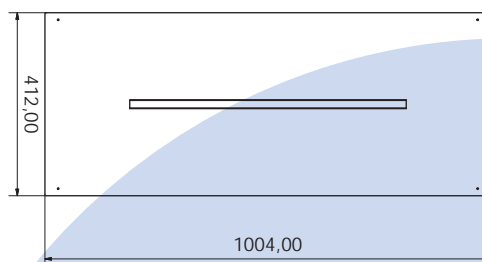
	CrF-65P
Pulse duration, fs	< 70
Tuning range, nm*	1230-1270
Output power, mW*	180-250
Recommended pump power, W	6-10
Repetition rate, MHz	75/100/125
Output stability, rms	<2%
Spatial mode	TEM ₀₀
Polarization, linear	horizontal
Divergence, mrad	<2
Crystal cooling	thermoelectric
* - depends on the pump power and operating temperature	



CrF-65 - mm[inches]



	LF-100
Tuning range, nm	1210-1290
Output power, mW*	400*
Spatial mode	TEM ₀₀
Bandwidth, 1/cm	10
* - 10 W pump	



LF-100 - mm