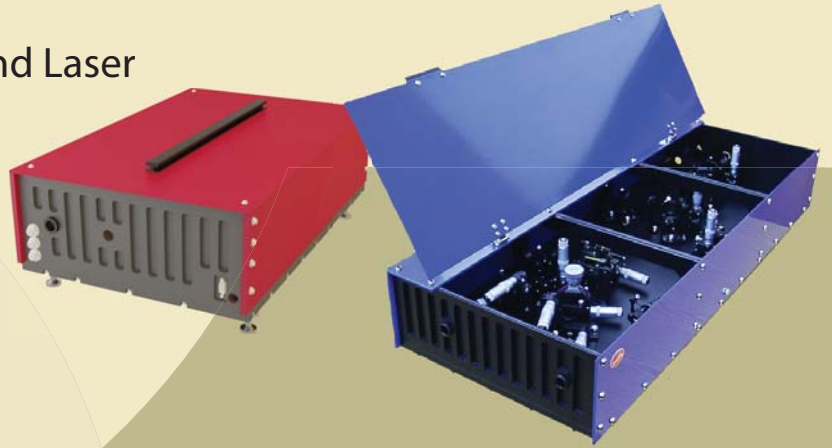


## Femtosecond Solid-State Lasers



### Mavericks Cr:Forsterite Femtosecond Laser

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



Mavericks-65 and Mavericks-CW laser

#### Product overview

The Mavericks-65 chromium-forsterite laser from Del Mar 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 Mavericks-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. The CW version of the Cr:F-65 is available separately.

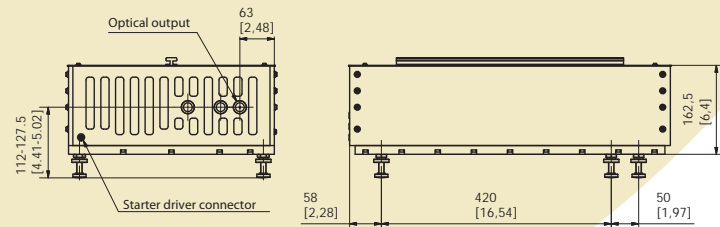
The Mavericks-65P laser can also be used as a seed oscillator for building high power Cr:F amplifiers.

Possible application of the Cr:F laser:

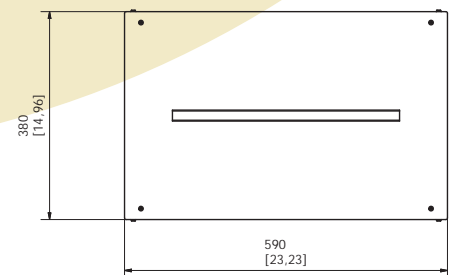
- Seed oscillator for amplifiers
- Multi-photon excitation microscopy
- Pump-probe spectroscopy
- Generation of terahertz radiation
- Time-resolved spectroscopy
- Optical coherent tomography

#### Mavericks technical specifications

	Mavericks-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 <sub>00</sub>
Polarization, linear	horizontal
Divergence, mrad	<2
Crystal cooling	thermoelectric
* - depends on the pump power and operating temperature	

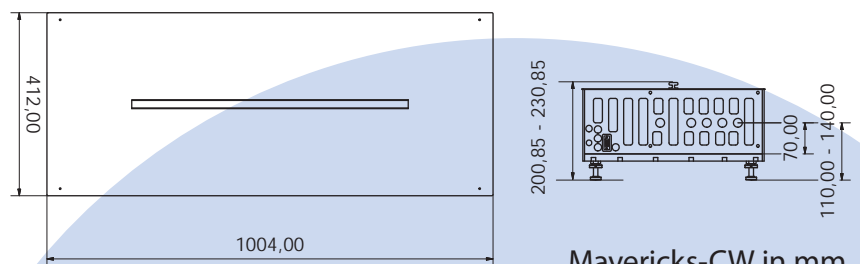


Mavericks-65 - mm [inches]



#### Mavericks-CW

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



Mavericks-CW in mm