Mozart

CW DPSS high-power green laser

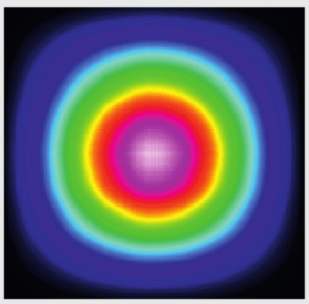
1 **TURNKEY OPERATION**

2 **ROBUST, RELIABLE**

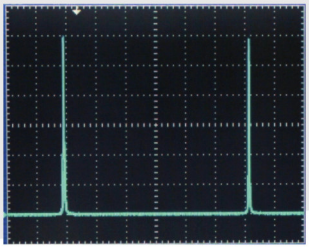
3 **LOWEST OPTICAL NOISE**

4 **LOWEST COST OF OWNERSHIP**

Single-mode single-frequency Nd:VYO_4 laser Mozart continues the line of precision ring-cavity lasers by Tekhnoscan. The output power of this laser exceeds 12 W at 532 nm and 30 W at 1064 nm. Comparatively hifh level of CW output power at 532 nm allows successful use of this laser for efficient pumping of tunable Ti:Sapphire and dye lasers.



Powerful single-frequency output of this laser also perfectl matches the requirements for pumping resonant parametric oscillators capable of generating relatively powerful monochromatic radiation at a specified wavelength within an ultra-wide spectral range. A tandem of Mozart and Tekhnoscan's resonant frequency doubler FD-SF-07 delivers a stable single-frequency UV beam at wavelength 266 nm with output power exceeding 2.5 W and linewidth < 10 MHz.



Single frequency operation of Mozart verified using a scanning Fabry-Perot interferometer with a free spectral range of 750 MHz and a resolution of 2MHz

Features

- ✔ Single-mode and single-frequency output
- ✔ Smart power supply with build-in chip control
- ✔ Ultra-stable resonator
- ✔ Ultra-lo optical noise >0.03% rms
- ✔ Complete remote access to the laser via the Internet

Applications

- ✔ Ti:Sapphire and Dye laser pumping
- ✔ OPO pumping
- ✔ Biomedical imaging
- ✔ Raman spectroscopy
- ✔ Interferometry and cytometry
- ✔ Holography

Other key advantages of Mozart are:

Operation simplicity and stability of parameters - the laser does not need any alignment or servicing, the laser cavity es sealed off from the environment.

Long life time - Mozart lasers use pumping diodes with working life time exeeding 60.000 hours, all other components of the system provide reliable operation for much longer period.

Large coherence length: > 19 m

Ultimate convenience of control: large LCD color display and smart handy interface

Contacts

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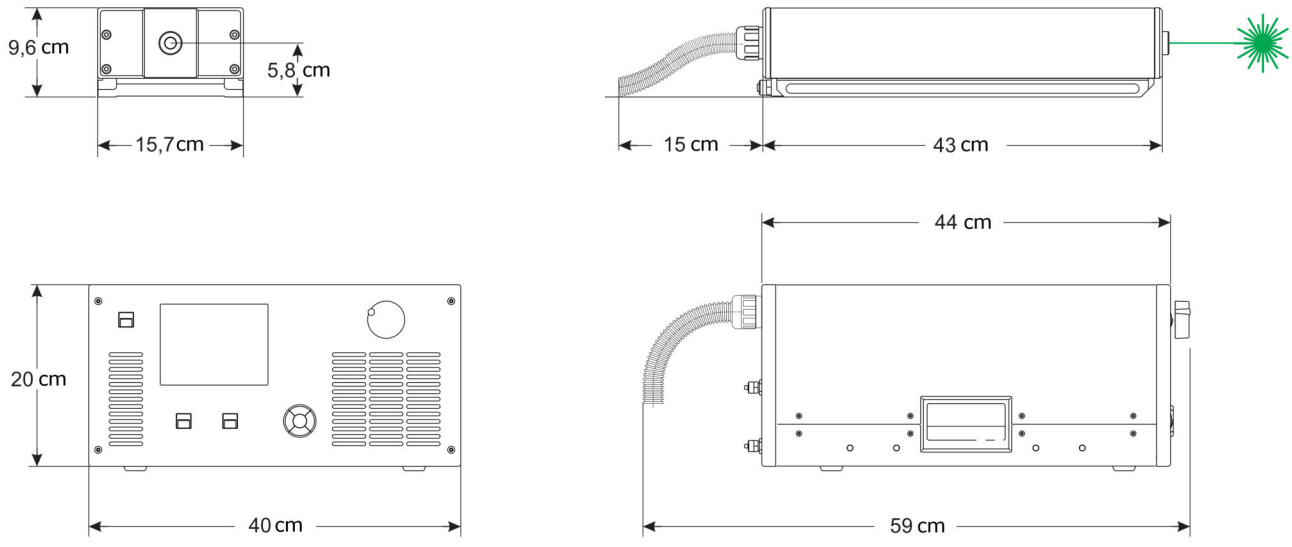
Laser Specifications

	Mozart-5	Mozart-6	Mozart-8	Mozart-10	Mozart-12
Output Power, W	**> 5**	**> 6**	**> 8**	**> 10**	**> 12**
Wavelength, nm			**532**		
Linewidth, MHz/sec			**< 5**		
Noise, RMS			**< 0.03%**		
Polarization			**vertical, > 100:1**		



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