



DYE-SF Product Line

Single frequency DYE-SF-077 (07) dye laser

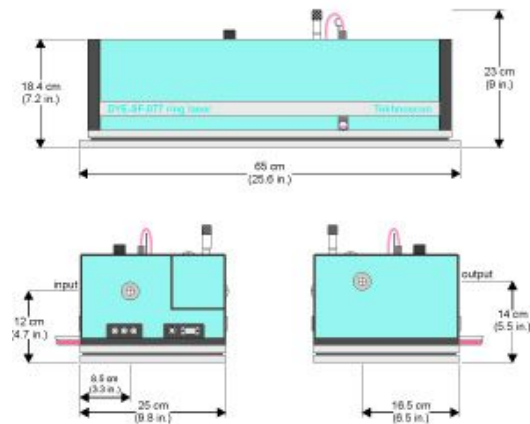
Key features

- Tunable wavelength range 570 - 700 nm;
- Narrow linewidth (<100 kHz);
- High output power (up to 2 W);
- Precision adjustment;
- Absolute frequency stabilization;



Applications:

- Ultra-high resolution spectroscopy;
- Atomic cooling and trapping;
- Multiphoton deep-tissue imaging;
- Nanostructure fabrication;
- Atomic lithography;
- Gas analysis;
- Trace substance detection;
- High speed wafer inspection.



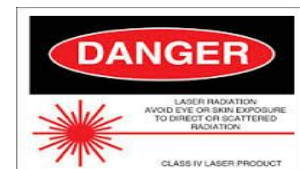
Optromix CW Single Frequency 570-700 nm dye laser **DYE-SF-077** has an ultra narrow linewidth (<100 kHz). Our **DYE-SF-077** has outstanding generation parameters stability because its resonator plane is horizontally orientated, which allows compressed cavity elements to be lined up on a rigid and massive vibration-isolated base. The regular laser spectral range which is 570-700 nm can be extended to 285-350 nm using a frequency doubler. **DYE-SF-077** delivered with dye circulation system and control unit.

Optromix specializes in producing supreme quality lasers, we are always ready to configure your laser for your specific needs.

DYE-SF-077/DYE-SF-07 series specifications

Model	DYEs-SF-077	DYE-SF07
Tunable wavelength range	570 - 620, 620 - 700 nm, 285 - 350 nm (with the frequency doubler)	
FWHM	< 100 kHz	< 150 kHz
Max. output power	1.5 W (10 W pump)	2W
Frequency drift	< 30 MHz/hour	
Smooth scanning	> 6 GHz	
Spatial mode	TEM ₀₀	
Polarization	horizontal	
Control interface	Control unit, RS232	
Operating voltage	220 -240 Volt, 50-60 Hz, Single Phase	
Operation temperature	10 to 40 °C	
Storage temperature	0 to +50 °C	
MTBF	> 5.000 Hrs	
Operation Humidity	10 - 70%	
Cooling	Forced air	
Dimensions (WxHxL)	250 x 230 x 650 mm, 320 x 92 x 240 mm, 280x280x350 mm	
Weight	≤ 12 kg	

- Optromix fiber systems can be customized especially by request.
- Optromix fiber systems are under 1 year warranty.



Information in this document is subject to change without notice.

2015 OPTROMIX Inc, 2464 Massachusetts Ave, Cambridge, MA 02140 USA Tel: +1 617 558 98 58
e-mail: info@optromix.com www.optromix.com