



Irybus SF Product Line

Single-frequency CW powerful 1064 (1030-1100) nm fiber Laser Irybus-SF-10xxX series

Key features

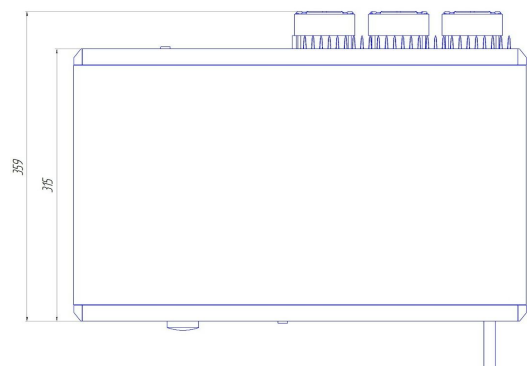
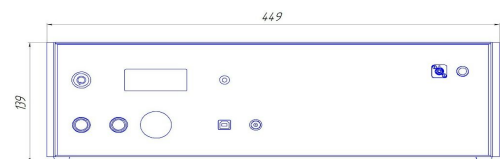
- Single-frequency
- Ultra-narrow linewidth (<100 kHz)
- TEM₀₀ mode
- Superior beam quality ($M^2 < 1.05$)
- Thermal wavelength tuning
- Fast piezo tuning
- Additional output for wavelength monitoring



Irybus-SF-1064X is a single frequency 1064 nm (any within the range 1030 nm - 1100 nm) Yb-doped fiber laser with the wide-range thermal wavelength tuning and optional active wavelength control. SF series key parameter is an ultra narrow linewidth (< 100 kHz) based on the longitudinal single mode. Irybus-SF-L are controlled by the on-board digital display, switches, and adjustment controllers. Irybus-SF-L comes with a piezoelectric tuning for external wavelength modulation at kHz bandwidth for locking purposes. A full set of control electronics and power supply are included in the delivery package. The control interface software provides optionally. This is a perfect tool due to excellent performance, high reliability, and lower cost.

Applications

- Atomic trapping and cooling
- Spectroscopy
- Optical sensing
- Measurements
- Other



Irybus-SF-10xxX specification

Parameter	Irybus-SF-1030L	Irybus-SF-1093L
Operating mode	CW, Single Frequency, TEM ₀₀	
Central wavelength	1530 nm	1093 nm
Linewidth (FWHM)	< 100 kHz	
Nominal output power	1W, 5W, 10W,20W, 30W	
Fast piezo tuning	PZT by default for external generator (built-in generator optional)	
Long term instability	< 1%	
Polarization	Linear or random	
Beam quality (M ²)	< 1.05	
Control interface	Wavelength control output, Front panel with display, RS232/USB (optional)	
Operating voltage	110 - 130V, 220 - 240 V, 50 - 60 Hz, Single Phase	
Operation temperature	10 - 50 °C	
Storage temperature	- 40 - +70 °C	
MTBF	> 10.000 Hrs	
Operation Humidity	10 - 85 %	
Cooling	Forced air	
Dimensions (WxHxL)	449 mm x 139 mm x 359 mm	
Weight	< 11 kg	

- Optromix fiber systems can be customized by request.
- Warranty: 1 year.



Ordering Information:

Product Code	Irybus-SF-10xxX-yy-p-cc	xx:	Wavelength (nm)
		yy:	Output power (W)
		p:	Polarization: L - linear, R -random
		cc:	Optical output: FC - fiber coupled, CM - collimator, FS - free space, FA = FC/APC FU = SC/UPC, SA = SC/APC SU = SC/UPC

Information in this document is a subject to change without notice.