



Irybus SF Product Line

CW Single Frequency 1030 nm, (1030-1100 nm custom) fiber Laser Irybus-SF-1030L series

Key features

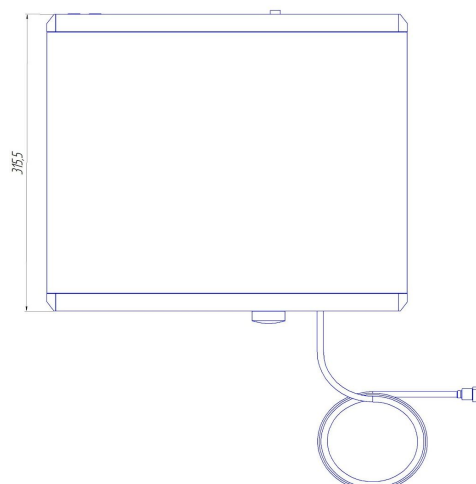
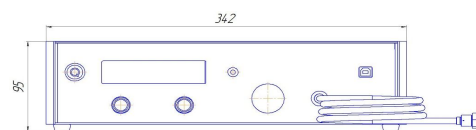
- Single-frequency
- Ultra-narrow linewidth
- TEM₀₀ mode
- High beam quality
- Thermal wavelength tuning
- Fast piezo tuning



Irybus-SF-1030L is a single-frequency 1030 nm Yb-doped fiber laser with a wide-range thermal wavelength tuning. Irybus-SF key parameter is an ultra-narrow linewidth based on the longitudinal single mode. Irybus-SF-L is controlled by the on-board digital display, switches, and adjustment controllers. A software to control device via computer is provided optionally. Irybus-SF-L comes with a piezoelectric tuning for external or built-in wavelength modulation at kHz bandwidth for locking purposes. A full set of control electronics and power supply are included in the delivery package.

Applications

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



Irybus-SF-10xxL specifications

Parameter	Irybus-SF-1030L	Irybus-SF-1093L
Operating mode	CW, Single Frequency, TEM ₀₀	
Central wavelength	1030 nm	1093 nm
Linewidth (FWHM)	< 100 kHz	
Nominal output power	100mW, 200mW, 500mW, 1000mW	
RIN level (peak - app 0.3 MHz)	< -100@peak	
Frequency stability (after 30 min warm-up)	< 50 MHz (1 hour)	
Piezo tuning range	20 pm	
Thermal tuning range (optional)	500 pm	
Long term instability	< 1%	
Polarization	Linear or random	
Beam quality (M ²)	< 1.05	
Control interface	Front panel with display, RS232/USB (optional)	
Operating voltage	110 - 130V, 220 - 240 V, 50 - 60 Hz, Single Phase	
Operation temperature	10 - 40 °C	
MTBF	> 10.000 Hrs	
Operation Humidity	10 - 85 %	
Cooling	Forced air	
Dimensions (WxHxL)	342 mm x 95 mm x 315.5 mm	
Weight	< 7 kg	

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



Ordering Information:

Product Code	Irybus-SF-10xxLyyy-p-cc	xx:	Wavelength (nm)
		yyy:	Output power (mW)
		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.