



## Irybus NL Product Line

### Powerful Ytterbium doped 1030 nm - 1110 nm CW fiber laser series Irybus-NL-10xx-X

#### Key features

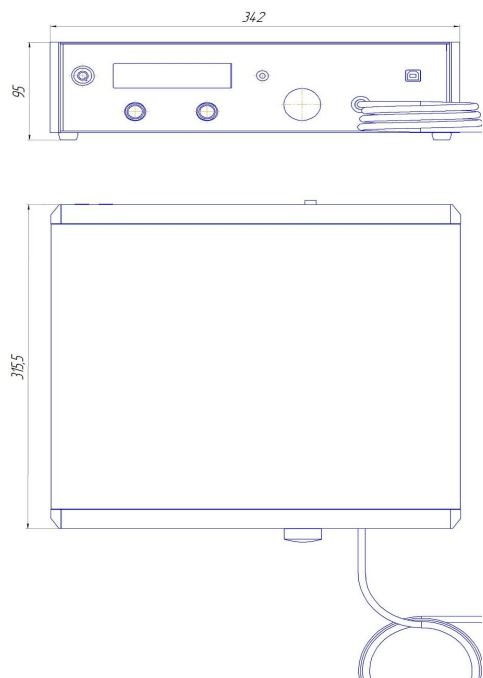
- Wavelengths: 1030 nm - 1110 nm
- Linewidth: < 0.3 nm
- TEM<sub>00</sub> mode
- High beam quality
- High output power (up to 30W)
- APC (optional)

Irybus-NL is a single-mode high beam quality Yb-doped fiber laser. Any wavelength within the range of 1030 nm - 1110 nm can be selected as a central. The spectrum linewidth can be selected in the range of 0.05 nm to 1 nm. Irybus-NL can operate in automatic power control (APC) mode as well as in automatic current control (ACC) mode. Any standard connectors or collimated output are installed by the customers request. Optionally, Irybus-NL can be equipped with the built-in visible aiming laser. This model is manufactured in a desktop housing. It also can be designed as an industrial module for OEM integration. Irybus-NL is controlled by the on-board digital display, switches, and adjustment controllers. The software to control via computer is provided optionally.



#### Applications

- Spectroscopy
- Second-harmonic generation
- Laser machinery
- Others



## Irybus-NL-1xxx-X-p-cc specifications

Parameter	Value
Operating mode	CW, TEM <sub>00</sub>
Central wavelength	Any within the range 1030 nm - 1110 nm
Linewidth (FWHM)	< 0.05 nm, < 0.1 nm, < 0.3 nm, < 0.5 nm, < 1.0 nm (by request)
Nominal output power	1W, 2W, 5W, 10W, 15W, 20W, 30W, 50W
Output power tunability	10-100 %
Long term instability	< 1 %
Polarization	Random, Linear (optional)
Beam quality (M <sup>2</sup> )	< 1.1 , < 1.05 (optional)
Optical output (by request)	FC, Collimated fiber, Free space, FC/APC, SC/UPC, SC/APC, SC/UPC
Built-in visible aiming laser (optional)	650 nm, 5mW
Control interface	Front panel with display, RS232/USB (optional)
Operating voltage	110-130V, 220 - 240 V, 50 - 60 Hz, Single Phase
Operation temperature	0 to 40 °C
Storage temperature	- 40 to +70 °C
MTBF	> 10.000 Hrs
Operation Humidity	10 - 85 %
Cooling	Forced air
Dimensions (WxHxL), mm	342x95x315,5 (up to 20 W) 449x139x359 (20 - 50W)
Weight, kg	< 8 (up to 15 W) , < 15 (15 - 50W)

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



### Ordering Information:

Product Code	Irybus-NL-1xxx-X-yy-p-cc	xxx:	Wavelength (nm)
		yy:	Output power (W)
		p:	Polarization: R - random, L - linear
		cc:	Optical output: FO - fiber output, CF - collimated fiber, 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.