



Celius NL Product Line

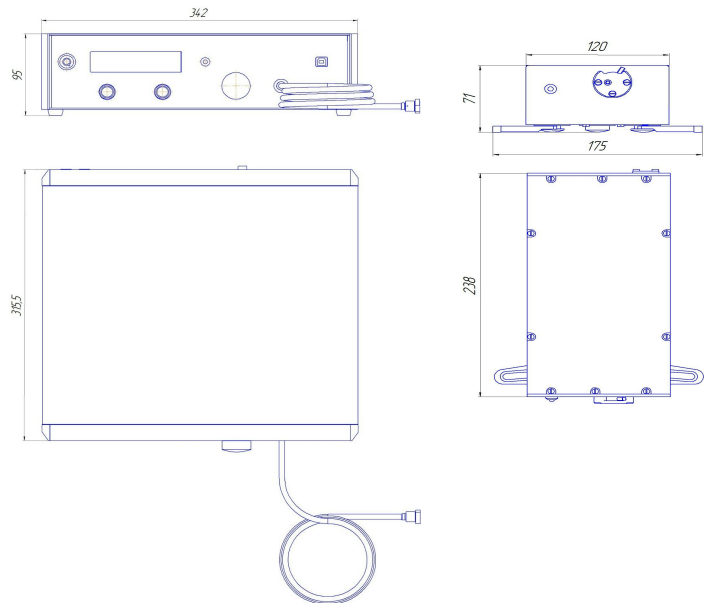
Near IR CW 780 (770-790) nm fiber laser Celius-NL-7**-***-L series

Key features

- Superior beam quality ($M^2 < 1.1$)
- TEM₀₀ mode
- High power stability
- Low noise
- High reliability

Application

- Spectroscopy
- Measurements
- Fluorescent analysis



Celius-NL-7**-***-L series is high beam quality low noise 770 nm - 790 nm fiber lasers. Any desired wavelength within the range can be selected as the central operating wavelength for a particular model. The Celius Near IR beam laser series are manufactured using our fiber optical technology, a proprietary technology for intra-cavity doubling of the unpolarised Er-doped fiber laser with the linearly polarized output (patent pending). Celius key parameters are superior beam quality and high power stability. Celius-NL-7**-***-L controlled by the onboard digital display, switches, and adjustment controllers. A full set of control electronics and power supply are included to the delivery package. The control interface software provides optionally. Celius-NL-7**-***-L is a perfect tool for research labs due to excellent performance, high reliability, and lower cost.

Celius-NL-7**-***-L series specification

Parameter	Value	Unit
Operating mode	CW	
Central wavelength	770, 775, 780, 785, 790	nm
Linewidth	< 0.1	nm
Nominal output power (2)	50, 100, 200, 500	mW
Output power tunability	10-100	%
Power stability	± 1 (2 hour)	%
Polarization	Linear	
Spatial mode	TEM ₀₀ mode	
Output fiber termination	free space (fiber coupled, collimated -by request)	
Beam quality (M ²)	≤ 1.1	M ²
Amplitude noise,	< 1 (20Hz to 2MHz)	%
Control interface	Front panel with display, (RS232, USB (optional)	
Operating voltage	220 -240 Volt, 50 Hz, 60 Hz Single Phase	
Operation temperature	10 to 40	°C
Storage temperature	- 40 to +70	°C
MTBF	> 10,000	Hrs
Operation Humidity	10 - 85	%
Cooling	Forced air	
Dimensions (WxHxL)	342x95x316 mm, 120x71x238 mm	mm
Weight	≤ 10	kg

Warranty: 1 year



Ordering Information

Product Code	Celius-NL-7xx-yyy-L-cc	xx:	Wavelength (nm)
		yyy:	Output power (mW)
		cc:	Optical connector: FC - fiber coupled, FS - free space, CL -collimator

Information in this document is subject to change without notice.

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