

3W Supercontinuum Fiber Laser



2023 V1

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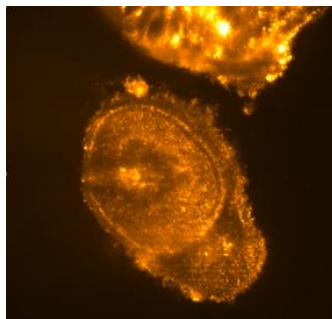
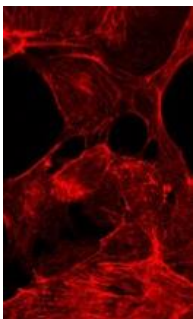
3W Supercontinuum Fiber Laser

Iceblink is a supercontinuum fiber laser covering the 450-2300 nm spectral range with over 3W of average power and superior stability (<0.5% std. dev.). The spatial coherence and broad spectrum of the Iceblink makes it a great alternative to a classic lamp, single-line lasers, LEDs and ASE sources.

It is a very versatile white light source with a world of applications in the scientific and industrial sectors, including absorption/transmission measurements for material characterization, VIS, NIR and IR spectroscopy, single molecule spectroscopy and fluorescence excitation

Feature

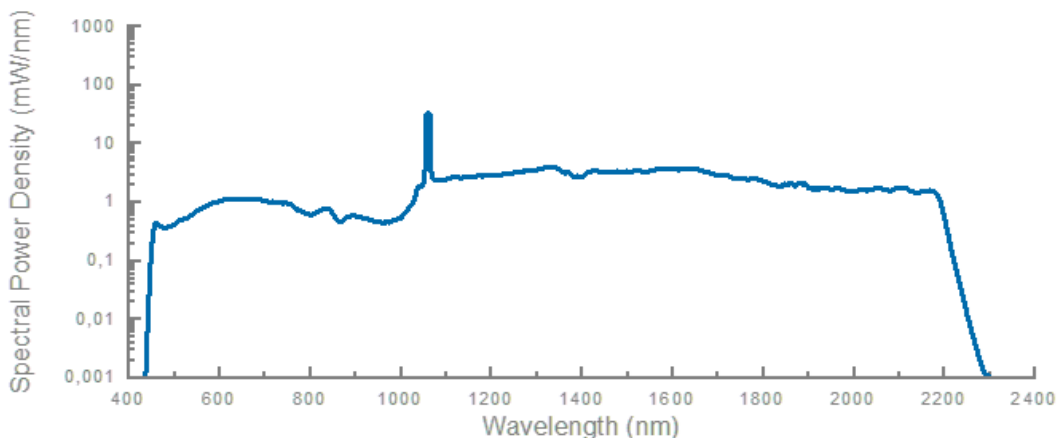
- Great alternative to a classic lamp, single-line lasers, LEDs and ASE sources
- Superior stability (<0.5% std. dev.)
- VIS+NIR Power Balance.
- Covering the 450-2300 nm spectral range



Application

- Microscopy (FRET, TIRF, CLSM...)
- Absorption / Transmission / Reflection Spectroscopy
- Lifetime Measurement
- Optical Device Characterization
- Metrology
- Hyperspectral Imaging

Optical Spectrum



Specifications

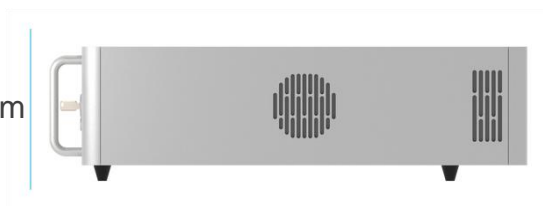
Product name	3W Supercontinuum Fiber Laser(Iceblink)
Spectral Range	450-2300 nm
Repetition Rate	80 MHz
Average Power	> 3 W
Visible Range (450 - 750 nm) Average Power	> 150 mW
Pulse Duration (at Fundamental Wavelength, 1060 nm)	< 10 ps
Average Power Stability	<0,5 % (std. dev.)
Polarization	Unpolarized
Output Port	Single Mode Fiber, 1.0 m length (customizable)
Optical Output	Collimated (in the range 450-1000nm), Single-mode across full spectrum
Synchronization / Connections	TTL Low Voltage
Beam Diameter	< 4.0 mm (1/e ² @ 532 nm, 0.5 m from output)
Spatial Mode Quality, M ²	< 1.2
Cooling	Thermoelectric cooler + air cooling
Power Requirements	220/110V 50-60 Hz
Operating Temperature	20 - 30 °C
Storage Temperature	0 - 60 °C
Dimensions	436x560x151 mm (WxDxH)

Dimension



436mm

151mm



560mm

Accessories

BOREAL is the accessory for supercontinuum lasers to choose any wavelength in the visible range (450 – 750 nm). The perfect white laser plug-in accessory for bioimaging, nanophotonic and more.



Accessories Parameter

Spectral range	450-750 nm
Optical output	Free Space or Multimode Fiber Output (1m) with FC/PC connector (FC/APC and Collimated output customizable)
Linewidth	5 to 300nm
Selectable lines	1
Resolution:	1 nm
Power transmissions	>75% (free space output) / > 25% (fiber output)