

# Chromacity 920

Ultrashort pulses at 920 nm



**The Chromacity 920 is the next generation of fiber-based laser technology which is enhancing biomedical imaging with higher resolution and faster acquisition at significant depth.**

Chromacity's 920 nm fixed wavelength laser is ideal for two-photon excitation of fluorophores and calcium markers (including GFP, eGFP, YFP, GCaMP).

Fiber coupling capability reinforces seamless integration into microscopy set-ups with maximum optical power transmission and minimal dispersion.

## 01 Applications

- Multi-photon microscopy
- SHG microscopy
- Light sheet microscopy
- Time-resolved photo-Luminescence Spectroscopy
- FLIM
- THz generation
- Optogenetics
- Pump source for nonlinear optics

## 02 Features & Benefits

- Compact air-cooled systems
- Remote installation capability
- Plug & Play functionality
- Simple OEM integration
- Fiber delivery capability
- Competitive price point

## 03 Technical Overview

- 1.1 W average power
- Pulse duration < 180 fs
- 80 MHz repetition frequency



Compact System



Air Cooling



Plug & Play  
Functionality



Seamless  
Integration



Fiber Coupling



Cost  
Competitive

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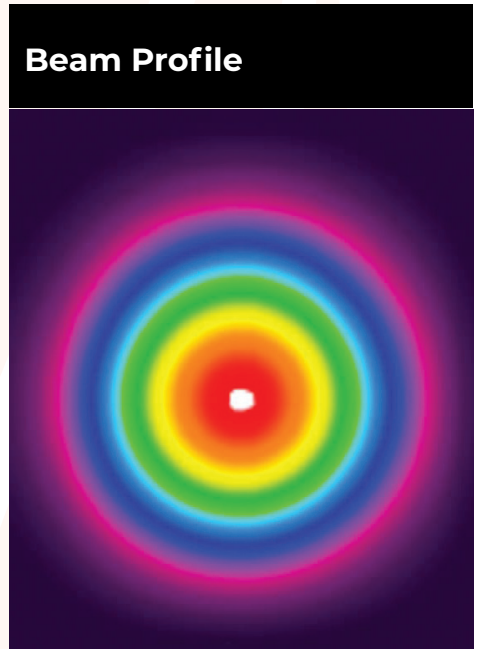
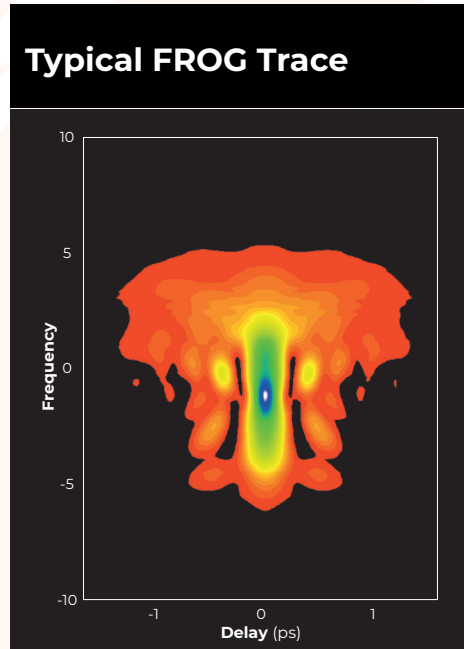
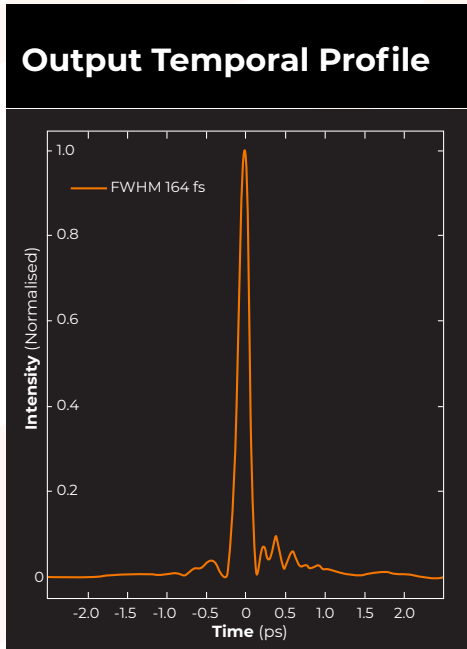
Ultrashort pulses at 920 nm

Specification	920 nm
<b>Output power</b>	1.1 W
<b>Wavelength</b>	920 nm
<b>Bandwidth</b>	17 nm
<b>Pulse energy</b>	20 nJ
<b>Pulse duration</b>	< 180 fs
<b>Repetition frequency</b>	80 MHz
<b>Beam parameters</b>	Free space, $M^2 < 1.2$ . Divergence < 0.3 mrad (half angle)
<b>Beam diameter</b>	2 mm +/- 0.2 mm
<b>Control Interface</b>	Web browser interface. Ethernet & serial port (RS232) also available.
<b>Electrical</b>	Voltage 110 – 240 V AC, Frequency 50 – 60 Hz, Power 80 W
<b>Dimensions</b>	355 x 180 x 118 mm (laser head, excludes feet) 483 x 285 x 88 mm (control unit – 19" 2U rack mount)

### System Dimensions (mm)

**Laser Head**

**Power Supply**



Customized specifications are often requested – please get in touch if you have a specific requirement. Chromacity follows a policy of continuous improvement, hence specifications are subject to change without notice.

Learn how our ultrafast lasers can enable you to discover more. For more information, email: [sales@chromacitylasers.com](mailto:sales@chromacitylasers.com)

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