

# 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 920nm 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
- 50 - 80 MHz repetition frequency



Compact System



Air Cooling



Plug & Play  
Functionality



Seamless  
Integration



Fiber Coupling



Cost  
Competitive

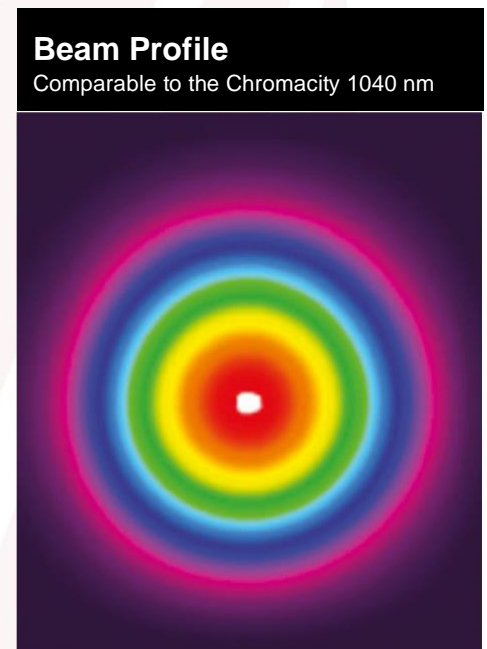
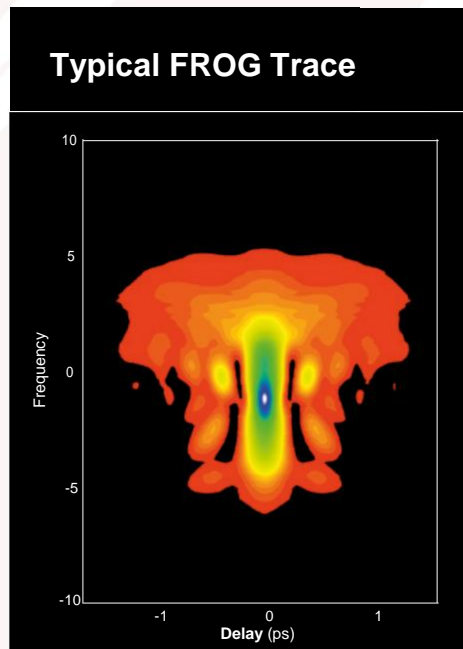
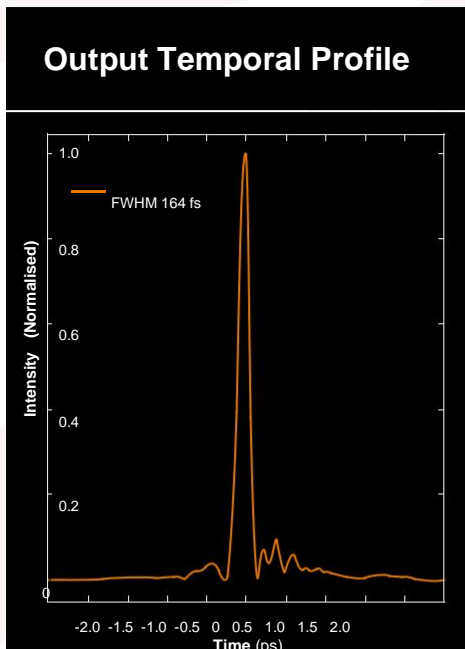
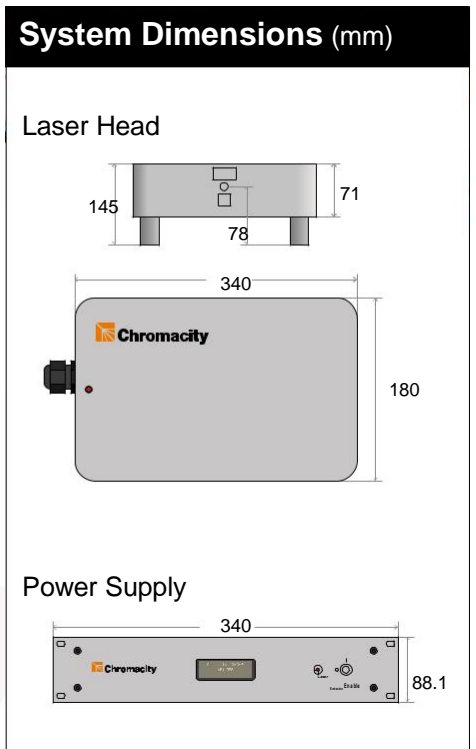
# Chromacity 920

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Specification	920 nm
Output power	1.1 W
Wavelength	920 nm
Bandwidth	17 nm
Pulse energy	12.5 – 20 nJ *
Pulse duration	< 180 fs
Repetition frequency	50 – 80 MHz**
Beam parameters	Free space, M2 < 1.2
Control Interface	Web browser interface. Ethernet & serial port (RS232) also available.
Electrical	Voltage 110 – 240 V AC, Frequency 50 – 60 Hz, Power 80 W
Dimensions	340 x 180 x 120 mm (laser head, excludes feet) 483 x 285 x 88 mm (control unit – 19" 2U rack mount)

\*Pulse energy dependent upon repetition frequency

\*\*Repetition frequency can be configured at time of manufacture



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. Technical specifications referenced in this datasheet are based on a Chromacity 920 nm prototype.

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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CLASS 4 LASER PRODUCT

