

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

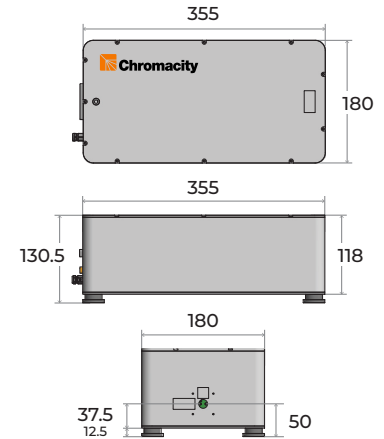
Chromacity 920

Ultrashort pulses at 920 nm

Specification	920 nm
Output power	1.1 W
Wavelength	920 nm
Bandwidth	17 nm
Pulse energy	20 nJ
Pulse duration	< 180 fs
Repetition frequency	80 MHz
Beam parameters	Free space, $M^2 < 1.2$. Divergence < 0.3 mrad (half angle)
Beam diameter	2 mm +/- 0.2 mm
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	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)

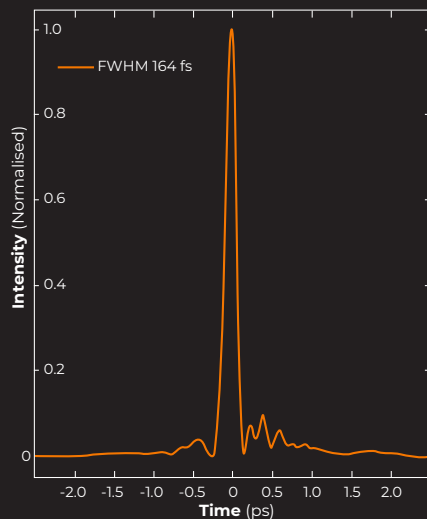
Laser Head



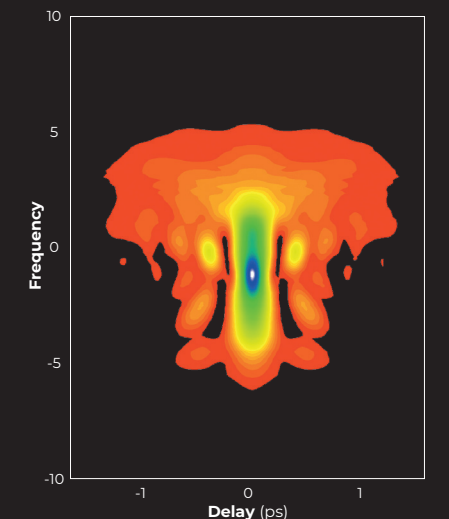
Power Supply



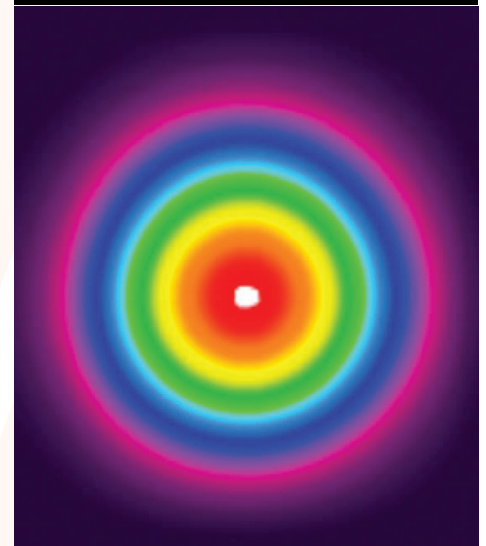
Output Temporal Profile



Typical FROG Trace



Beam Profile



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

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