Chromacity™

Chromacity 1040

Ultrashort pulses at 1040 nm

The **Chromacity 1040** is an air-cooled, compact ultrafast laser.

01 Applications

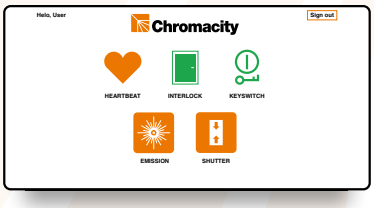
- SHG and multi-photon microscopy
- Light sheet microscopy
- Optogenetics imaging experiments
- Pump source for non-linear optics (OPOs, SHG)
- THz generation
- Supercontinuum generation
- Time resolved experiments (e.g. TCSPC/FLIM)

02 Technical Overview

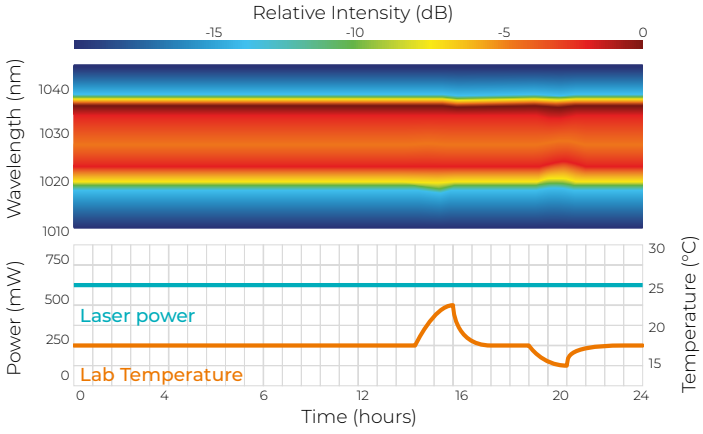
- Up to 4 W average power is available (500 kW peak power)
- Pulse duration: < 150 fs (Chirped output pulse option also available)
- 100 MHz repetition frequency (80 MHz also available)

03 Features & Benefits

- Compact laser housing (air-cooled operation)
- Intuitive web browser interface
- Power efficient laser cavity (low power consumption)



04 Stable Performance



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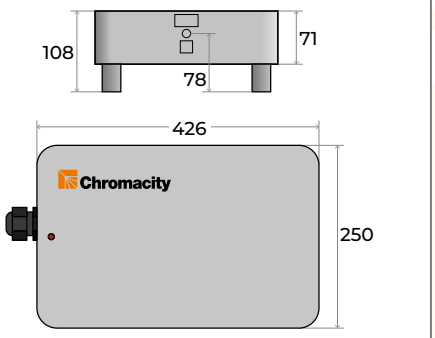
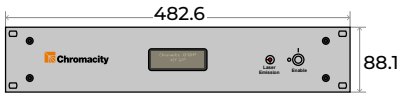
Specifications	Low power	Medium power	High power
Output power	Up to 750 mW	2.5 W	> 3.5 W
Wavelength	1030 nm	1040 nm	1040 nm
Pulse energy	7.5 nJ	25 nJ	> 35 nJ
Pulse duration	< 150 fs		
Repetition frequency	100 MHz		
Beam parameters	Free space, M^2 < 1.3, Linearly polarized Divergence < 2 mrad		
Beam diameter	0.5 - 1.2 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	426 x 250 x 108 mm (laser head) 483 x 285 x 88 mm (control unit – 19" 2U rack mount)		

System Dimensions (mm)

Laser Head

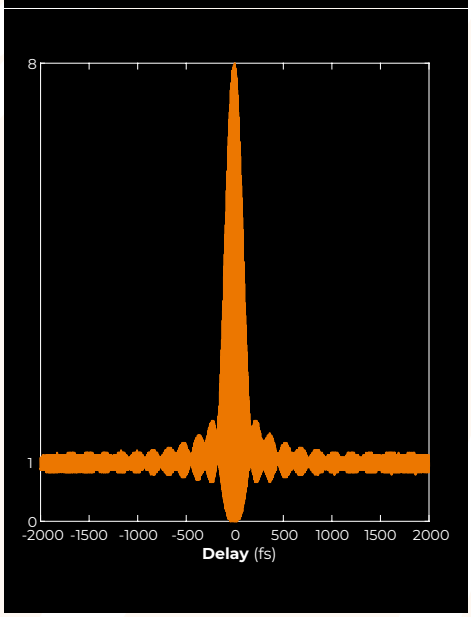


Power Supply

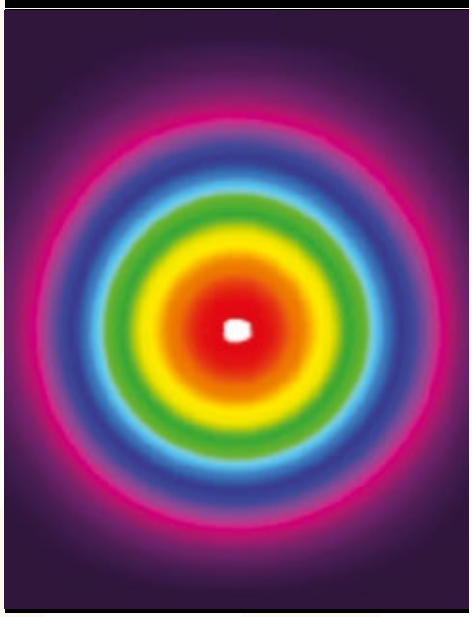


Autocorrelation Measurement

Indicating pulse duration of 130 fs



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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