

Chromacity 1040

Ultrashort pulses at 1040 nm



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

01 Applications

- Multi-photon and SHG microscopy
- Light sheet microscopy
- Time resolved experiments - TCSPC/FLIM
- Optogenetics imaging
- THz generation
- Supercontinuum generation
- Pump source for non-linear optics (OPO, SHG, THG)

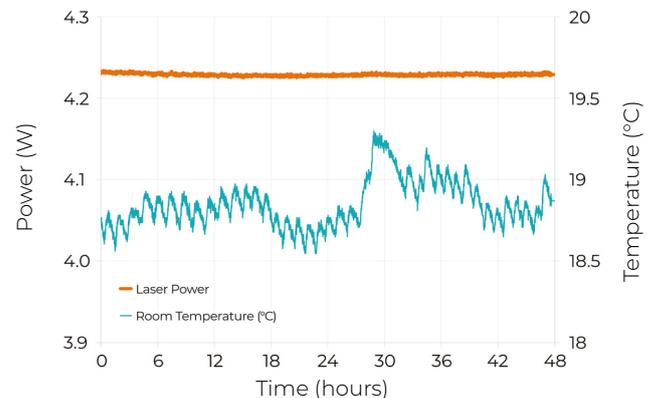
02 Technical Overview

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

03 Features & Benefits

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

04 Stable Performance

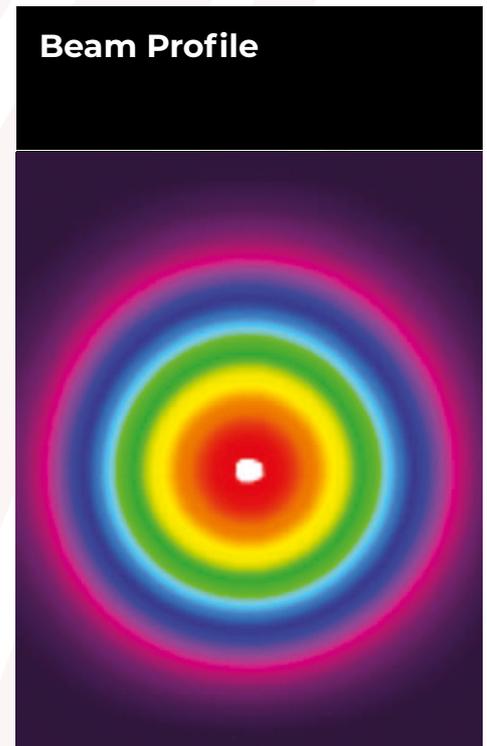
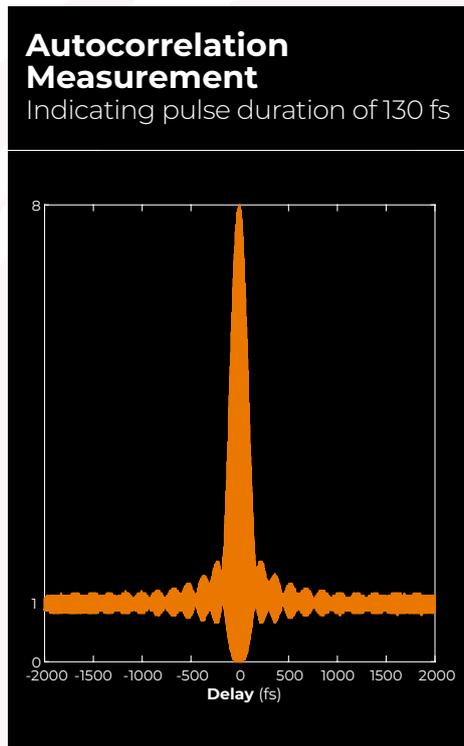
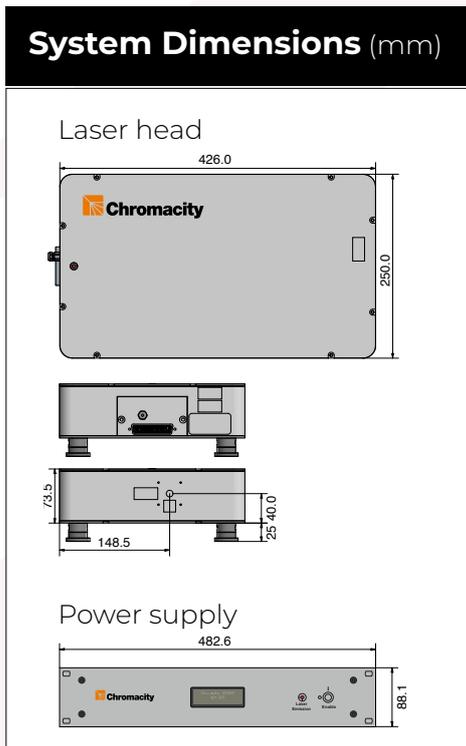


Chromacity Active Power Stabilization (APS) scheme: 48h rms = 0.03%, $\Delta T = 0.75\text{C}$

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Specifications	Low power	Medium power	High power
Output power	Up to 500 mW	2.5 W	> 3.5 W
Wavelength	1030 nm	1040 nm	1040 nm
Pulse energy	5 nJ	25 nJ	> 35 nJ
Pulse duration	< 150 fs		
Repetition frequency	100 MHz		
Beam parameters	Free space, $M^2 < 1.2$, Linearly polarized Divergence < 2 mrad		
Beam diameter	1.1 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	426 x 250 x 108 mm (laser head) 483 x 285 x 88 mm (control unit – 19" 2U rack mount)		



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

WARNING
DANGER - INVISIBLE LASER RADIATION
AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION
CLASS 4 LASER PRODUCT

