Chromacity™

GMP
GENERAL MICROTECHNOLOGY & PHOTONICS

Chromacity OPO

Broadband near-IR source

The **Chromacity OPO** delivers high power, broadband **coherent** light.

01 Applications

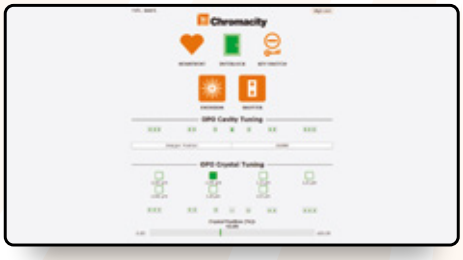
- Vibrational spectroscopy
- FTIR / stand-off techniques
- Multi-species gas analysis
- Telecoms / Quantum research
- Materials characteristics
- Explosive detection
- Raman spectroscopy

02 Technical Overview

- Average powers:
  - up to 850 mW (signal)
  - up to 350 mW (idler)
- Pulse durations: ~1-5 ps
- 100 MHz repetition frequency

03 Features & Benefits

- Compact laser housing with an integrated pump source
- Broadband, coherent beam
- An intuitive web browser interface



Tunability and high average power enables a broad range of spectroscopic and sensing applications.

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chromacitylasers.com

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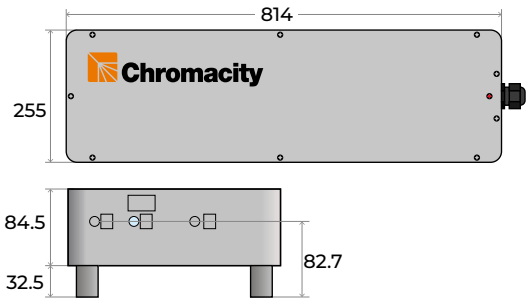
Broadband near-IR source

Specifications

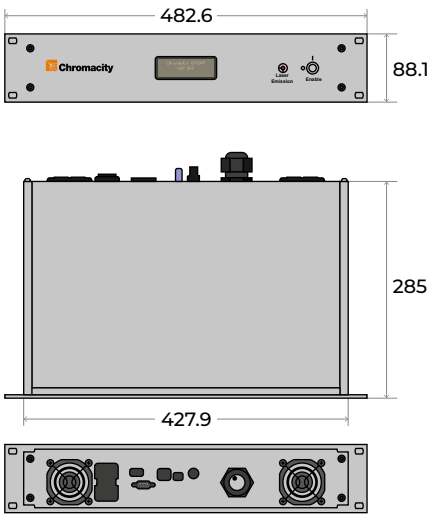
Signal wavelength	1.4 µm – 1.8 µm
Signal average power	Up to 850 mW (@ 1.5 µm) and > 350 mW across the range
Idler wavelength	2.4 µm – 4 µm
Idler average power	Up to 350 mW (@ 3.3 µm) with > 200 mW across the range
Repetition frequency	100 MHz
Residual pump power (@ 1040 nm)	> 300 mW (depending on OPO wavelength)
Beam diameter	Signal: 1 – 2 mm Idler: 3 - 6 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	814 x 255 x 117 mm (laser head) 483 x 285 x 86 mm (control unit)

System Dimensions (mm)

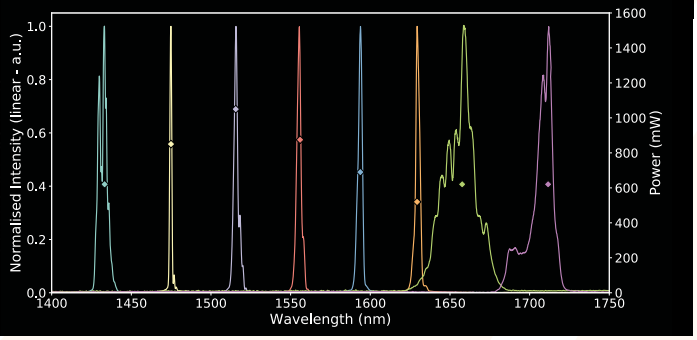
Laser Head



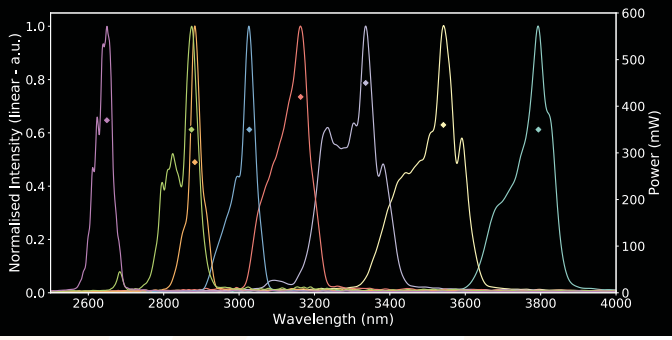
Power Supply



Representative Signal Output



Representative Idler Output



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.

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