



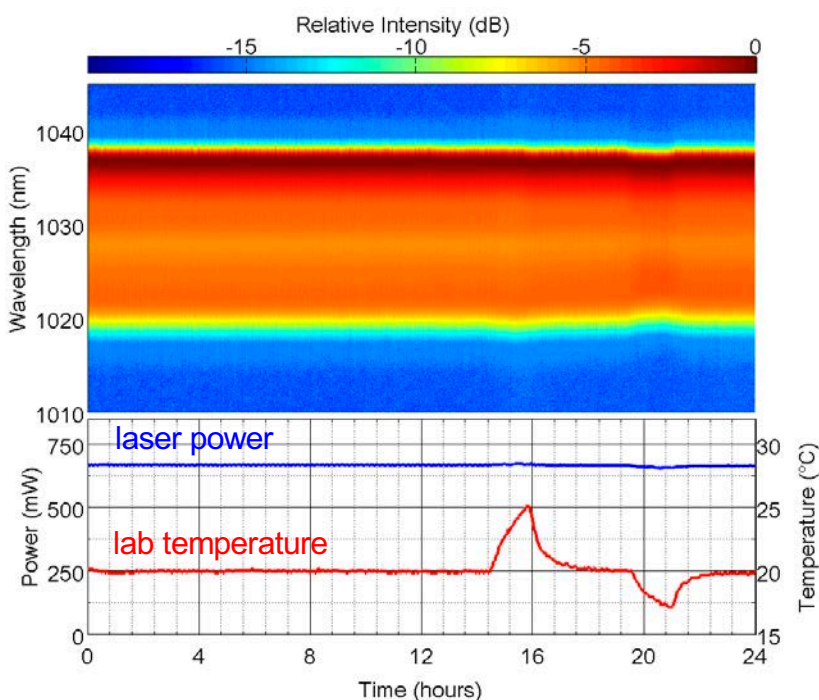
The Chromacity **Spark 1040** – high power ultrafast laser source



Exceptional performance enabling your most demanding applications

- Sub-250-fs pulses at 1040 nm
- Up to 3W of average power
- 100-MHz repetition frequency
- Linearly polarized free-space output
- Lock-to-clock option
- Multi-photon microscopy
- Light-sheet microscopy
- OPO pumping
- Nonlinear optics
- Raman conversion
- THz generation
- Yb:YAG amplifier seeding
- Supercontinuum generation
- Semiconductor probing
- Mid-IR generation
- 3-D photo-polymerisation
- OCT

Rock solid environmental stability



Web-based laser control

- Easy to use interface
- Safety shutter and laser emission control over ethernet and wifi
- Door interlock error alerts
- Control multiple lasers
- RS232 control also available

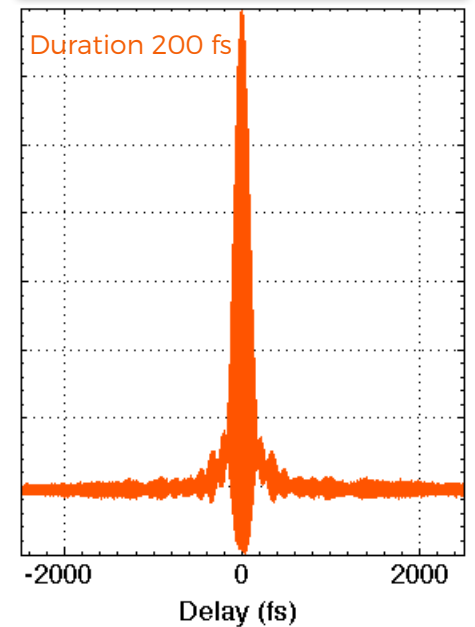
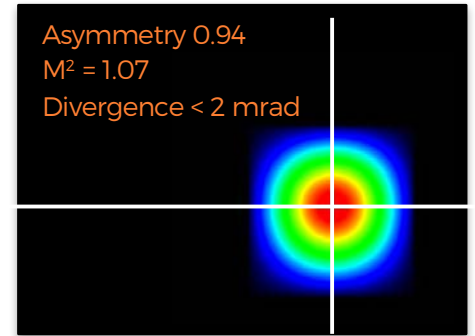


Specifications and options

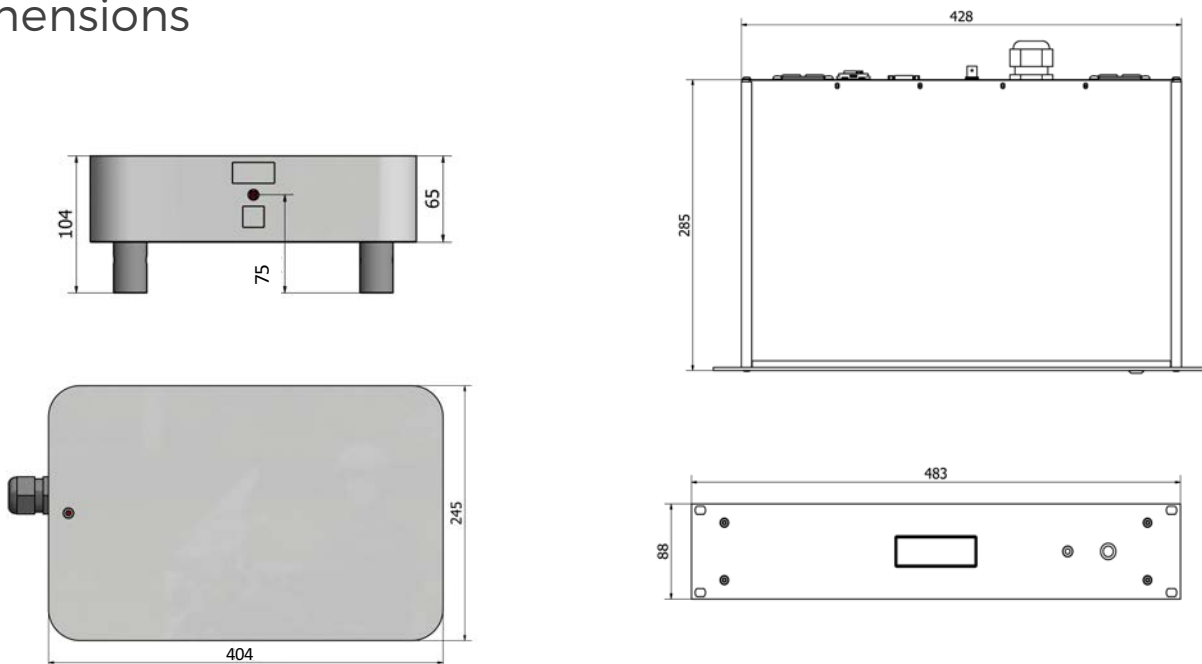
Options

Output power	500mW - 3W	
Wavelength	1040 nm	
Pulse duration	< 250 fs - 3ps	
Bandwidth	20 nm - 40 nm	
Repetition frequency	100 MHz 140 Hz RMS (50 hours) Monitor photodiode	80 - 200 MHz Lock-to-clock
Beam quality	Free space, $M^2 < 1.1$ Linearly polarized Divergence < 2 mrad Beam diameter 0.5 mm	0.5-2mm
Control interface	Ethernet, and web page Serial port (for control via LabView/MatLab)	Custom interface available
Dimensions	404 x 249 x 65 mm (laser head) 483 x 285 x 86 mm (control unit)	
Weight	7.5 kg (laser head) 2 kg (control unit)	
Electrical	Voltage 110 - 240 V AC Frequency 50 - 60 Hz Power 80W	
Warranty	12 months (Terms & Conditions apply)	

Specifications subject to change



Dimensions



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