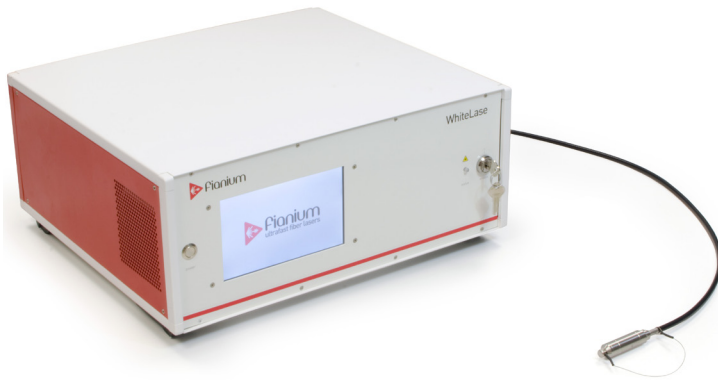


WhiteLase SC Series

Blue & UV enhanced Supercontinuum Fiber Lasers

ULTRA BROADBAND
WHITE-LIGHT LASER



KEY FEATURES

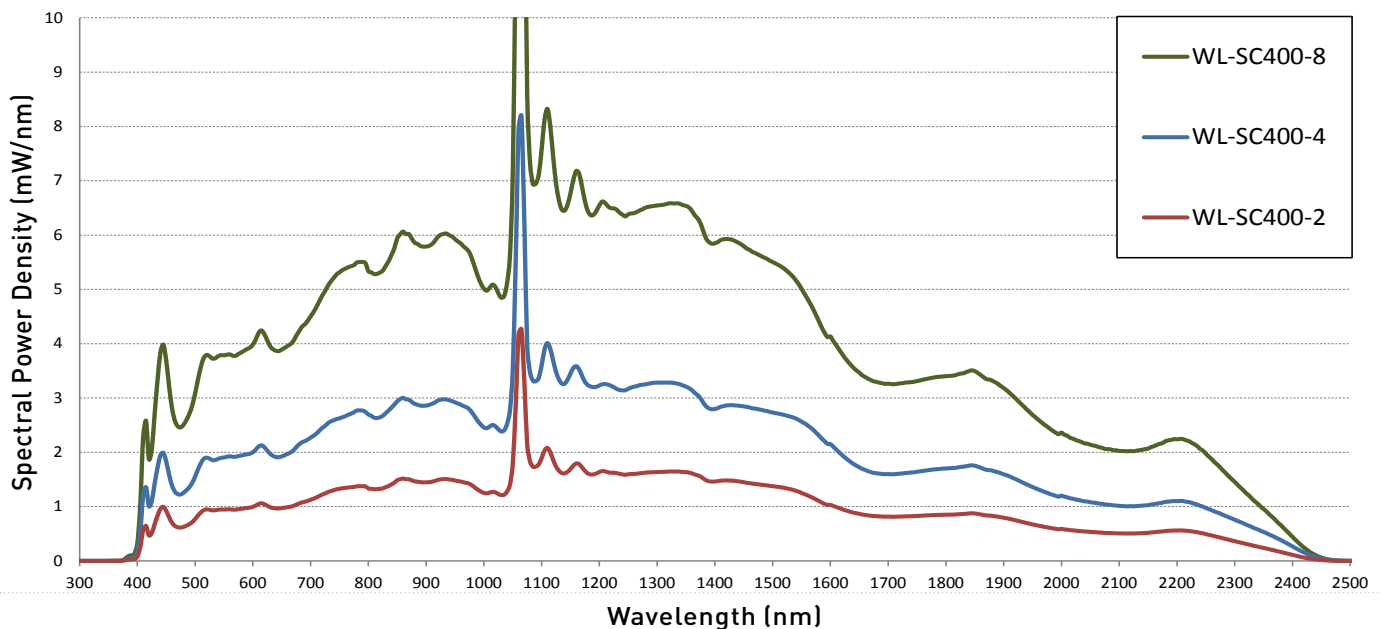
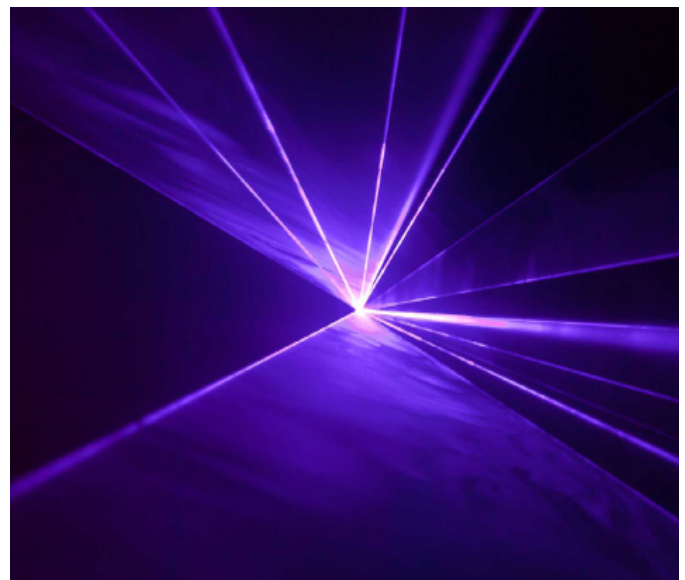
- Blue or UV enhanced spectrum on all systems
- Fixed or variable repetition rate
- Highest available output power to **>8W**
- Ultimate visible brightness (350-750nm)
- Touchscreen control with intuitive operation
- Single spatial mode across the output spectrum
- Advanced triggering options
- Modular and upgradable design
- High reliability and low cost of ownership
- Wide range of Plug-and-Play filter options

The **WhiteLase™ SC** range of systems are high-power fiber lasers generating ultrafast broadband supercontinuum light. Operating in the MHz repetition rate range, with picosecond pulses, these systems can be utilised effectively for both steady-state and lifetime measurement. The inherently robust all-fiber design provides unsurpassed performance combined with high reliability and ease-of use. The touchscreen interface enables one-touch access to all laser settings, pre-sets, diagnostics and live system status.

WhiteLase™ SC-UV; UV-enhanced system providing a short cut-in wavelength with high brightness from approximately 390nm.

WhiteLase™ SC400; Versatile supercontinuum laser with a spectral range from approximately 400nm for visible and near-infrared applications

WhiteLase™ SC480; IR-Optimised system with the highest spectral power density from 480nm to beyond 2400nm. Now available with up to 20W power.



STANDARD SPECIFICATIONS

	WhiteLase Short Wavelength Supercontinuum Systems			
Model	WL-SC-UV-3	WL-SC400-2	WL-SC400-4	WL-SC400-8
Minimum Wavelength	<390nm	<410nm		
Maximum Wavelength	≈2400nm			
Total Power (full spectrum)	>3W	>2W	>4W	>8W
UV/Visible Power (350-750nm)	>300mW	>300mW	>600mW	>1200mW
Extended Vis Power (350-850nm)	≈450mW	≈450mW	≈900mW	≈1800mW
Average Spectral Power Density	>1.5mW/nm	>1mW/nm	>2mW/nm	>4mW/nm
Fundamental Repetition Rate	40MHz	20MHz	40MHz	80MHz
Adjustable Repetition Rate Range (with optional pulse picker)	100kHz - 40MHz	100kHz - 20MHz	100kHz - 40MHz	100kHz - 80MHz
Power Stability	<1%			
Fundamental Pulsewidth	≈6ps			
Output Optic	φ16 x 50mm Collimator			
Beam Diameter	≈1.5mm @ 530nm ≈2mm @ 633nm ≈3mm @ 1100nm			
Armoured Fiber length	1.5m			
State of polarisation	Unpolarised			
User Interface	1. Integrated touchscreen graphical user interface 2. PC via USB interface			
Sync (trigger) Outputs	1. NIM Compatible trigger with adjustable delay 2. Oscillator monitor photodiode			
NIM Trigger Specifications	>10ns adjustable delay in 10ps steps <10ps timing jitter			
Cooling	Integrated air cooling			
Dimensions (mm)	19" benchtop chassis - 450 x 390 x 180 "-C" Compact Chassis - 300 x 250 x 120			

QUALITY AND RELIABILITY

Fianium have over 10 years' experience designing, high power supercontinuum fiber lasers and have supplied over 1000 units to research and industry. The systems are qualified by industry partners based on:

- 100s of systems tested over 1000s of hours
- Ongoing Highly Accelerated Lifetime Testing (HALT)
- Modules rated to over 20,000 hours Mean Time To Failure (MTTF)

Fianium's unique technology enables leading performance without sacrificing reliability or lifetime. Each system supplied is tested on a module and system level for a combined 500 hours and is backed by an unlimited hours warranty.



All Fianium lasers are manufactured under our Quality Management System in accordance with the ISO 9001:2008 standard.

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