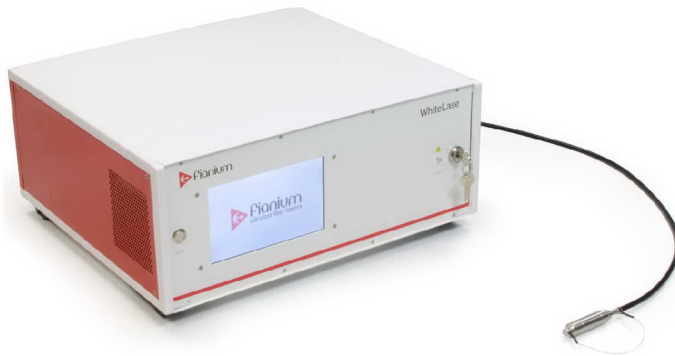


# WhiteLase SC480

HIGHEST BRIGHTNESS  
WHITE-LIGHT LASER

Ultra High-Power Supercontinuum Fiber Laser



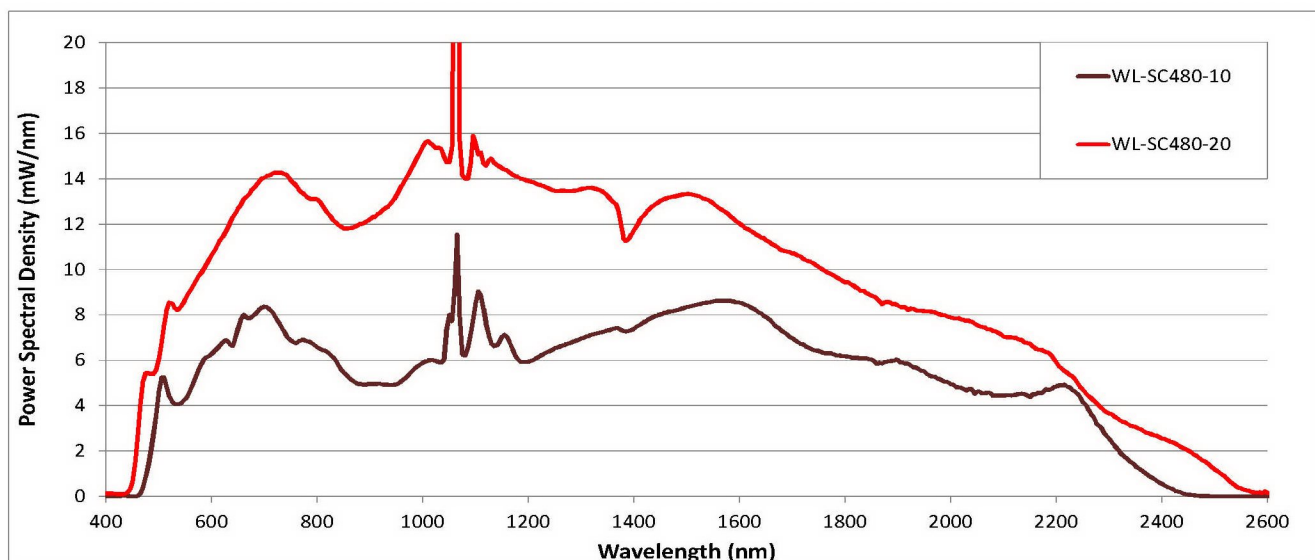
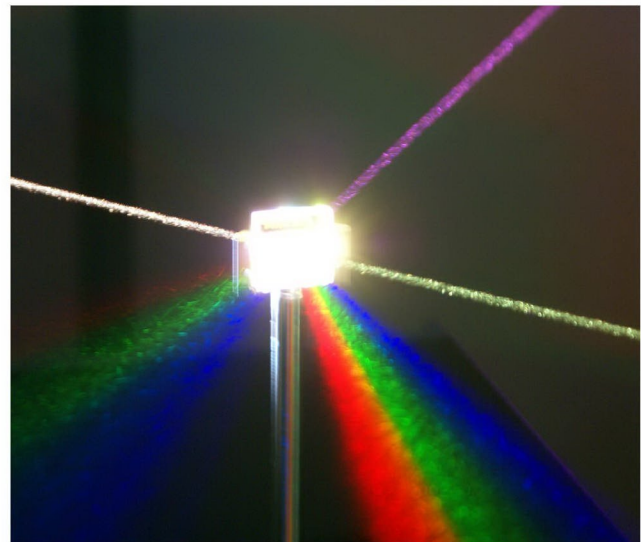
## KEY FEATURES

- Highest output power available - up to **20W**
- Visible power (350-750nm) **>3W**
- Continuous output spectrum to **>2400nm**
- Fixed or variable\* repetition rate
- 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™ SC480** system is the highest power supercontinuum light source available. Utilising technology unique to Fianium, the system has a output power of up to 20W for applications requiring the maximum brightness. The full spectrum extends from <480nm to beyond 2400nm enabling an unparalleled range of applications from a single laser source.

Like all Fianium supercontinuum fiber lasers the **WhiteLase™ SC480** operates in the MHz repetition rate range, with picosecond pulses, so 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 real-time system status.

For visible light applications, also consider the UV & blue enhanced **WhiteLase™ SC-UV** or **WhiteLase™ SC400** systems.



\* Patent Pending

## STANDARD SPECIFICATIONS

WhiteLase High Power Supercontinuum		
Model	WL-SC480-10	NEW: WL-SC480-20
Minimum Wavelength	<480nm	
Maximum Wavelength	≈2400nm	
Total Power (full spectrum)	>10W	>20W
Visible Power (350-750nm)	>1500mW	>3000mW
Extended Visible Power (350-850nm)	≈2200mW	≈4500mW
Average Spectral Power Density	>5mW/nm	>10mW/nm
Fundamental Repetition Rate	80MHz	80MHz
Adjustable Repetition Rate Range (with optional pulse picker)	100kHz - 80MHz	100kHz - 80MHz
Power Stability	<1%	
Fundamental Pulsewidth	≈6ps	
Output Optic	φ16 x 50mm Collimator or divergent output optic	
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)	450 x 390 x 180 (19" benchtop chassis, 4U height)	

## 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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