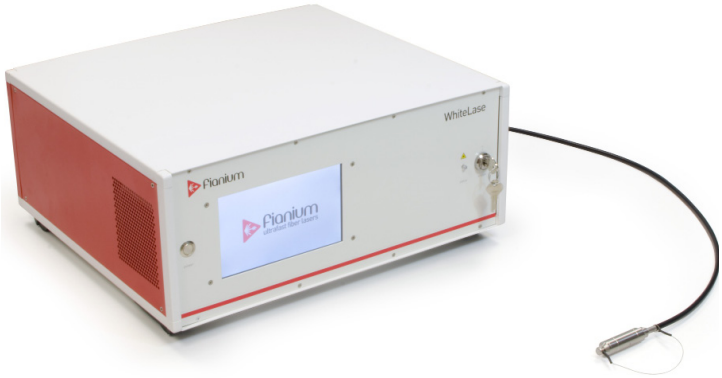
NEW PRODUCT DATASHEET

WhiteLase UV
High-Power Supercontinuum

UV-ENHANCED
WHITE-LIGHT LASER

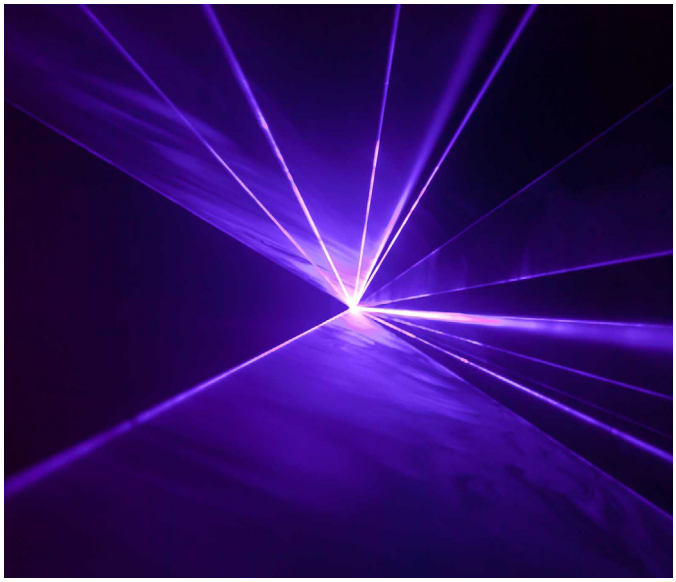


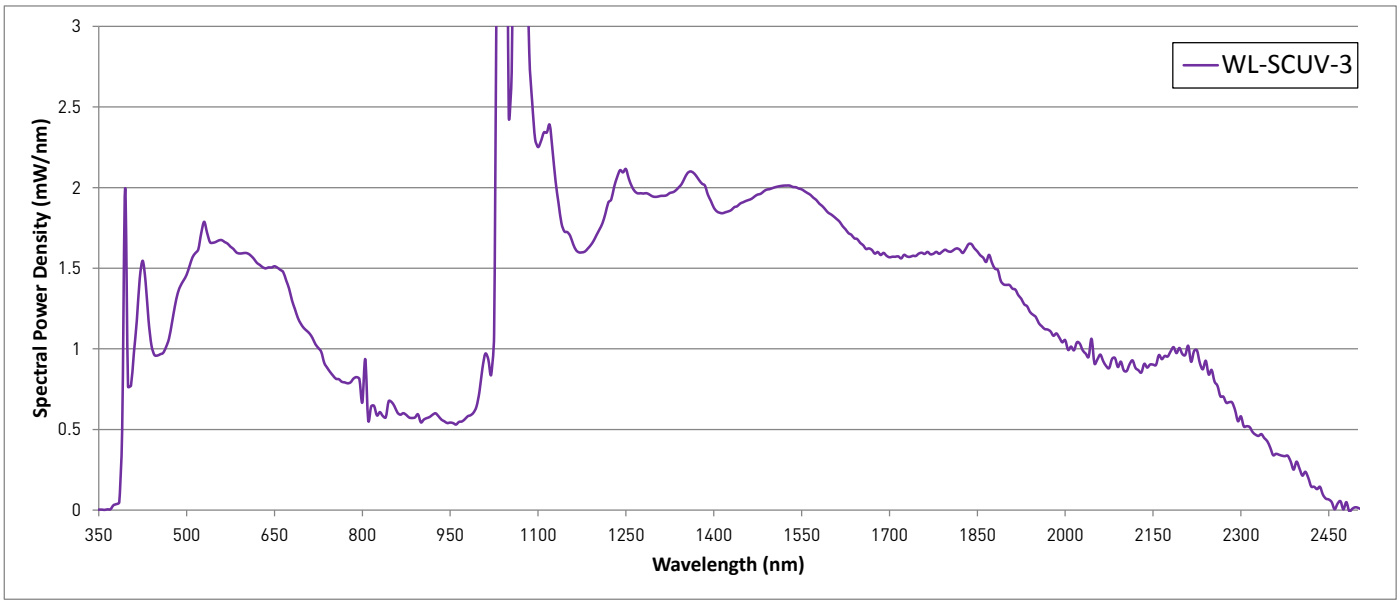
KEY FEATURES

- Unique UV-enhanced spectrum
- Guaranteed cut-in wavelength of **<390nm**
- Continuous high-brightness output to **>2400nm**
- Fixed or variable repetition rate*
- Output power **1.5W** or **3W**
- 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

The **WhiteLase™ UV** system is the first mode-locked, high-power supercontinuum laser generating broadband light with a spectrum extending to the Ultraviolet range. Utilising technology unique to Fianium, the system has a guaranteed cut-in wavelength less of than 390nm with superior performance in the blue-UV region. The full spectrum extends to beyond 2400nm enabling an unparalleled range of applications from a single laser source.

Similar to all Fianium supercontinuum fiber lasers the **WhiteLase™ UV** 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 live system status.





* Patent Pending

STANDARD SPECIFICATIONS

	WhiteLase UV Ultraviolet-enhanced Supercontinuum	
Model	**WL-SCUV-3**	**WL-SCUV-1.5**
Minimum Wavelength	<390nm	
Maximum Wavelength	>2400nm	
Total Power (full spectrum)	>3W	>1.5W
UV/Visible Power (350-750nm)	>300mW	>150mW
Extended Visible Power (350-850nm)	≈450mW	≈225mW
Average Spectral Power Density	>1.5mW/nm	>0.75mW/nm
Fundamental Repetition Rate	40MHz	20MHz
User Selectable Repetition Rate (with optional pulse picker)	100kHz - 40MHz	100kHz - 20MHz
Spectral Flatness	<6dB	
Power Stability	<2%	
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	
Power Requirements	100-240V, 50/60Hz	
Dimensions (mm)	450 x 390 x 180 (19'' benchtop chassis, 4U height)	
Weight	<20kg	

CUSTOM OPTIONS

- Custom repetition rates **20-120MHz**
- Higher output power
- Divergent output optic
- Cut-off wavelength up to **2500nm**
- **19"** rackmount chassis kit
- **TTL** or **optical** trigger output
- **Dual** or **triple** output ALP system

APPLICATIONS

- Fluorescence excitation
- Broadband spectroscopy
- Fluorescence lifetime measurement
- Optical Coherence Tomography (OCT)
- Nanophotonics
- Flow cytometry
- Industrial inspection
- Time Correlated Single Photon Counting (TCSPC)

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