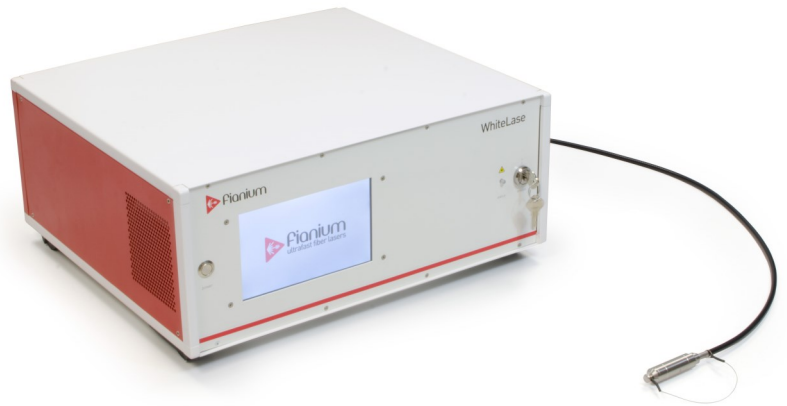


# Fianium WhiteLase

## High Power Supercontinuum Fiber Lasers

- 410-2400 nm continuous output
- Highest available output power up to 20W
- Fixed or variable repetition rate
- Compatible with LLTF Contrast filter solution



There is no need to compromise on spectrum or power; the WhiteLase offers both the shortest cut-in wavelength, the most visible power, and the highest total power available.

WhiteLase is compatible with the [LLTF Contrast](#); a continuously tunable high-resolution bandpass filter that effectively converts the WhiteLase into a widely tunable picosecond laser. The filter transmits, with high efficiency, a single laser line while blocking unwanted lines with excellent out-of-band suppression.

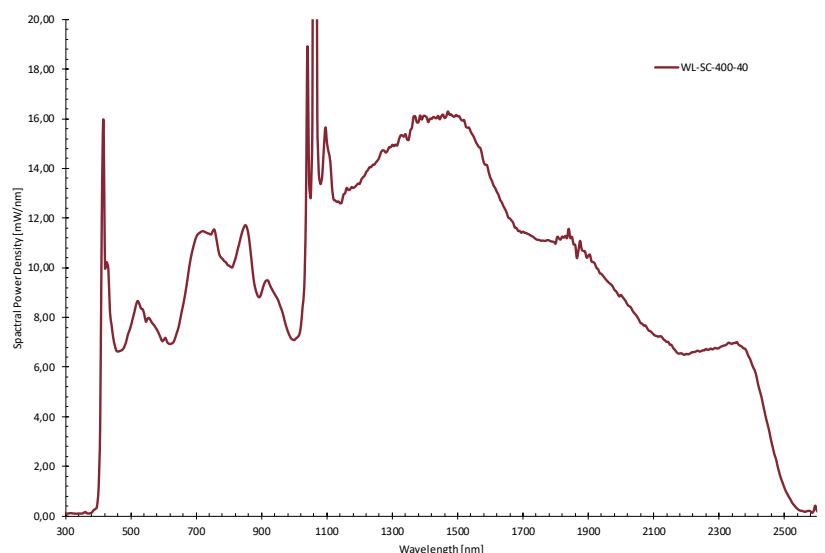
The touchscreen interface enables one-touch access to all laser settings, pre-sets, diagnostics, and live system status.

The WhiteLase is ideal for research and application development where cutting-edge performance and customization is important.

### Applications

- Microscopy
- Spectroscopy
- Plasmonics effects
- Metrology

### Typical Output Spectrum



# Specifications

## Optical

Repetition Rate	80 MHz +/-4 MHz
Variable Repetition Rate <sup>1)</sup>	80 MHz -2 MHz (80/40/20/10/5/2)
Total power	>20 W
Visible power (400-850 nm)	>3250 mW
Total power stability	± 1.0 %
Polarization	Unpolarized
Beam output	Gaussian, single mode
Typical M <sup>2</sup> (>430 nm)	< 1.1
Output options	Reflective Collimator
Length of output fiber	1.5 m
Beam diameter	~1.5 mm at 633 nm ~2.5 mm at 1060 nm
Beam Divergence (half angle)	< 3 mrad
Typical single mode fiber coupling efficiency (>430 nm)	>70 %

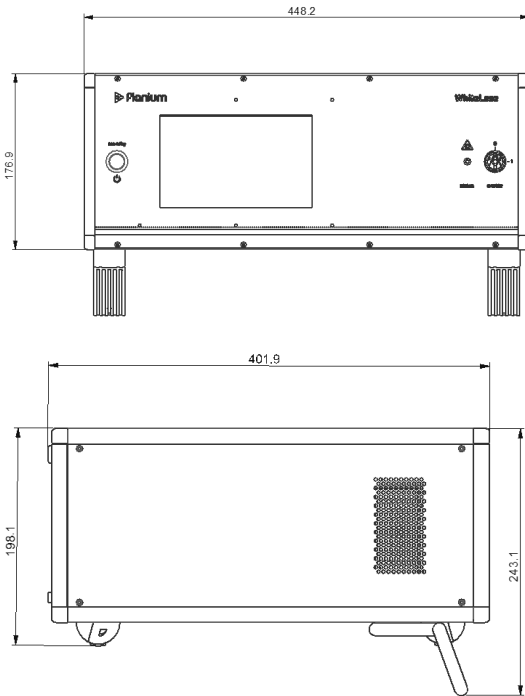
## Mechanical/Electrical

Computer Interface	USB/15 way D connector
Operation Voltage	100-240 VAC 50/60 Hz
Power Consumption	~300 W
Door Interlock Connector <sup>2)</sup>	15 way D connector
System Cooling	Air Cooled
Operation Temperature	+15°C to +30°C
Storage Temperature	-10°C to +60°C
Dimensions (WxHxL)	450x400x200 mm
Weight	18 kg (23 kg with pulse picker)
Sync (trigger) Outputs	1.NIM Compatible trigger with adjustable delay 2.Oscillator monitor photodiode
NIM Trigger Specifications	>10 ns adjustable delay in 10ps steps <10 ps timing jitter

1) Variable repetition rate is a product option

2) This laser is a Class 4 laser and is required to be connected to a door interlock/circuit

All Fianium-branded products are produced under the UK quality management system certified in accordance with the ISO 9001:2008



**NKT Photonics A/S (Headquarters)**  
 Blokken 84, 3460 Birkerød, Denmark  
 Phone: +45 4348 3900  
 Fax: +45 4348 3901

**NKT Photonics GmbH**  
 Schanzenstrasse 39, Bldg D9-D13  
 51063 Cologne, Germany  
 Phone: +49 221 99511-0  
 Fax: +49 221 99511-650

**NKT Photonics Inc.**  
 3514 N Vancouver Avenue, Suite 310  
 Portland, OR 97227 • USA  
 Phone: +1 (503) 444-8404  
 Fax: +1 (503) 914-1664