

White Light Laser

UV Visible NIR SWIR

Supercontinuum

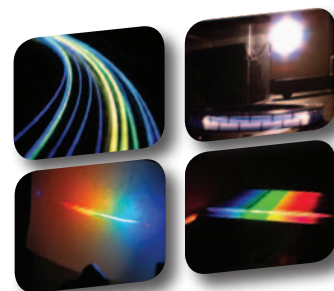
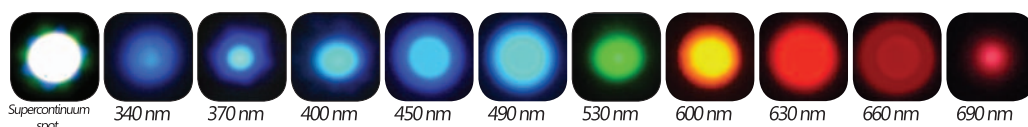


The company

LEUKOS designs and markets supercontinuum source, broadband laser, for tests, measurements, research and development fields. Our supercontinuum sources cover wavelengths from UV 320 nm to SWIR 2800 nm, with different modes of operation: picosecond, subnanosecond, nanosecond pulsewidth and pulse on demand or quasi-continuous wave.

LEUKOS holds a number of patents and scientific publications covering the designs and multiple applications of supercontinuum laser. Our team has a strong technical background and engineering experience with a customer-focused approach. We offer catalog standard solutions and customised products.

Since 2006 LEUKOS has been offering solutions to universities, industrials, and research institutes worldwide. Headquartered in Limoges, France, LEUKOS seeks to provide the best affordable solution. Our team is committed to offer customer support and training. You can contact us by phone, web and Skype: www.leukos-systems.com.



Supercontinuum generation

Supercontinuum generation is the formation of a broad continuous spectrum based on the interaction of the light delivered by a high power seed laser with a highly non linear media.

Applications

High resolution imaging

OCT, CARS, CLSM, STED microscopy

Biophotonics

Flow cytometry

Spectroscopy

Pump-probe TAS experiments

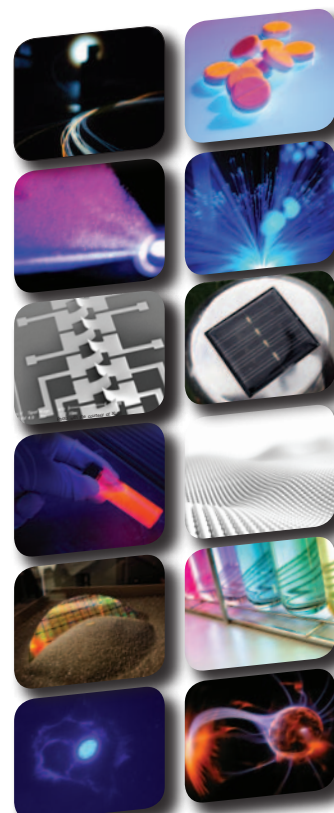
Time-resolved spectroscopy

Lifetime measurements

CRDS, CEAS, DOAS

Metrology

Materials characterization, Interferometry, LIDAR





PORTFOLIO

Supercontinuum Sources

High Power Supercontinuum Laser

SMHP

Quasi-continuous wave and short pulses

Total average power up to > 4 W
Spectral bandwidth 410-2300 nm (other bandwidth upon request)
Picosecond pulses
Repetition rates > 20 MHz, pulse-picker option down to 100 kHz

PEGASUS, Agile white light laser 410-2400 nm

High power and high energy nanosecond pulses

Total average power up to 2 W
Adjustable repetition rate 250 kHz up to 5 MHz, with 50kHz steps
Adjustable pulse width 300 ps up to 4 ns, up to 7 values

Middle Power Supercontinuum Laser

White light supercontinuum: SM-100, STM-VIS-IR

NIR SWIR supercontinuum: STM-IR

Flat spectrum high energy sources

Total average power in the range 250 mW up to 1.5 W
Spectral bandwidth 420-2400 nm, 450-2600 nm, 900-2800 nm
Nano/subnanosecond pulses, high energy up to > 5 μ J/pulse
Repetition rate from 100 kHz up to 6 MHz

Low Power Supercontinuum Laser

White light supercontinuum: SM, STM, SM-UVA,

NIR supercontinuum: SM-IR

High energy broadband spectrum down to 320 nm

Spectral bandwidth from 320 nm up to 2400 nm
Total average power < 250 mW
Nano/subnanosecond pulses, high energy up to > 6 μ J/pulse
High spatial coherence Gaussian TEM00
Repetition rate from pulse-on-demand 10 Hz up to 30 kHz
Externally triggered or free-running laser
Low timing jitter design < 20 ns at 2 kHz repetition rate

ACCESSORIES

- **Collimated Output**

Lens collimator
Achromatic broadband collimator

- **Tunable Filter**

AOTF solutions
Automated filters

- **Filter**

Adjustable bandwidth filters
Bandwidth splitters

- **Fiber Delay Lines**

All fibered fiber delay lines

