

White Light Laser

UV Visible NIR SWIR Mid-IR

Supercontinuum

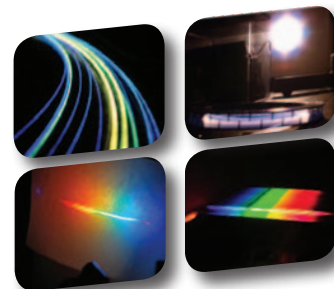


The company

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 Mid-IR > 4000 nm, with different modes of operation: picosecond, subnanosecond, nanosecond pulsewidth and pulse on demand or quasi-continuous wave.

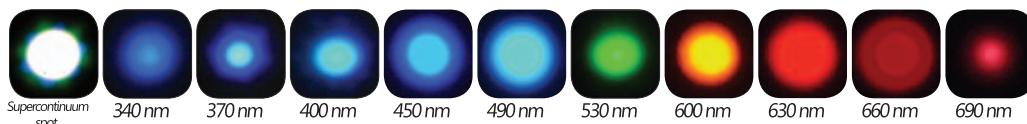
LEUKOS holds a number of patents and scientific publications covering the designs and multiple applications of supercontinuum laser. Our team has a strong technical background and engineering experience with a customer-focused approach. We offer catalog standard solutions and customised products.

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

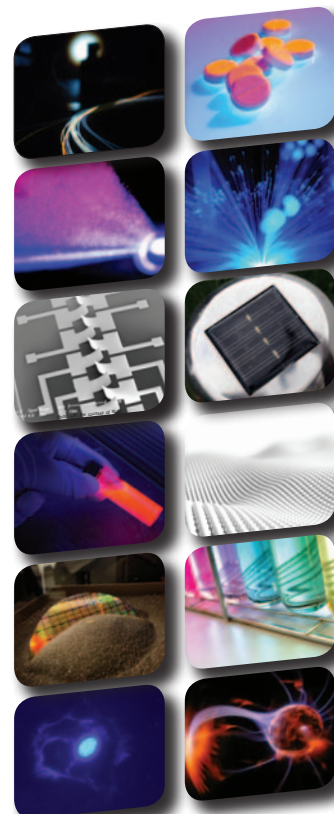
Time-resolved spectroscopy

Lifetime measurements

CRDS, CEAS, DOAS

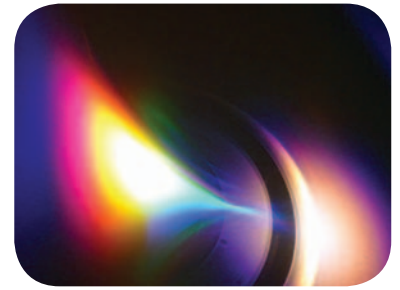
Metrology

Materials characterization, Interferometry, LIDAR



PORTFOLIO

Supercontinuum Sources



High Power Supercontinuum Laser

SMHP

Quasi-continuous wave and short picosecond pulses

Total average power up to > 4 W

Spectral bandwidth 410-2300 nm (other bandwidth upon request)

Repetition rates > 20 MHz, pulse-picker option down to 100 kHz

SM Picosecond, MHz, > 1W, 410-2400 nm **NEW**

PEGASUS, Agile white light laser 410-2400 nm

High power and high energy nanosecond pulses

Adjustable repetition rate 250 kHz up to 2 MHz, with 50kHz steps

Adjustable pulse width 340 ps up to 2 ns, up to 7 values

ACCESSORIES

- **Collimated Output**

Lens collimator

Achromatic collimator

- **Tunable Filter**

AOTF solutions

Automated filters

- **Filter**

Adjustable bandwidth filters

Bandwidth splitters

- **Fiber Delay Lines**

All fibered fiber delay lines

Middle Power Supercontinuum Laser

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

NIR Mid-IR supercontinuum: STM-IR, SM-MIR

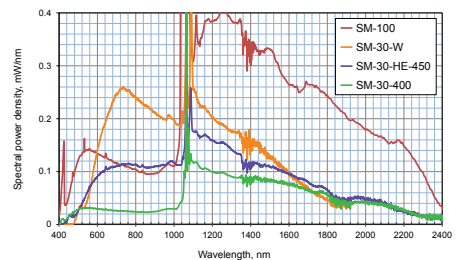
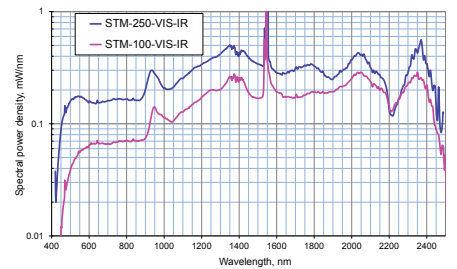
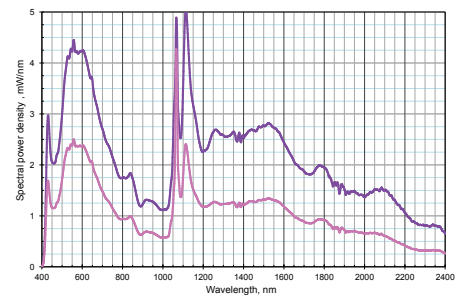
High energy sources

Total average power in the range 250 mW up to 1.5 W

Spectral bandwidth 400-2600 nm, 900-2800 nm, 0.9-4 μ m

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 Singlemode TEM00

Repetition rate from pulse-on-demand 1 Hz up to 30 kHz

Externally triggered or free-running laser

Low timing jitter design < 20 ns at 2 kHz repetition rate

**INVISIBLE AND VISIBLE LASER RADIATION
AVOID EXPOSURE to BEAM
Class 4 (IV) Laser product**

