LEUKOS
Innovative Optical Systems

# PEGASUS
## Agile Supercontinuum White Light Source

The PEGASUS laser is an agile high power white light supercontinuum. This laser provides up to 2W total average power with adjustable pulse width and repetition rate. PEGASUS allows multiple modes of operation through a patented optical design that provides flexibility, power and stability.
Developed in response to market demand for agile and reliable supercontinuum, PEGASUS offers the right performances to fit your needs and facilitate your progress.

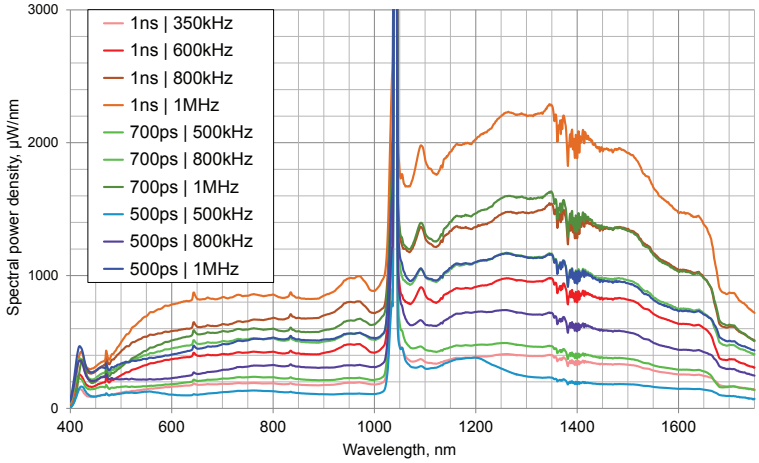
### FEATURES

- From visible to NIR
  400 nm - 2400 nm
- Adjustable repetition rate
  250 kHz up to 5 MHz
- Adjustable pulse width
  300 ps up to 4 ns
- Total average power up to 2 W
- Average power stability < 1%
- Singlemode TEM00
- Maintenance-free
- All fibered broadband source

### APPLICATIONS

- Laser diagnostic
- OCT (Optical Coherence Tomography)
- Materials characterization
- Spectroscopy
- Lifetime measurement
- Metrology, LIDAR


**The agile white light laser**
**Adjustable repetition rate**
**Adjustable pulse width**

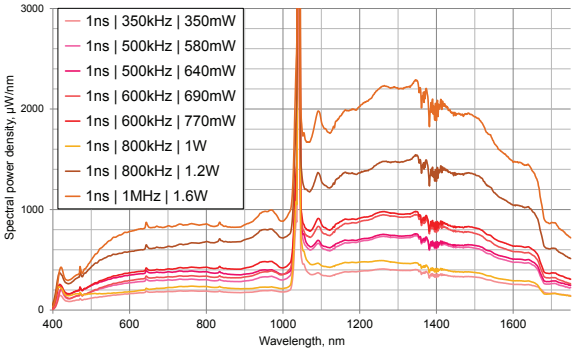


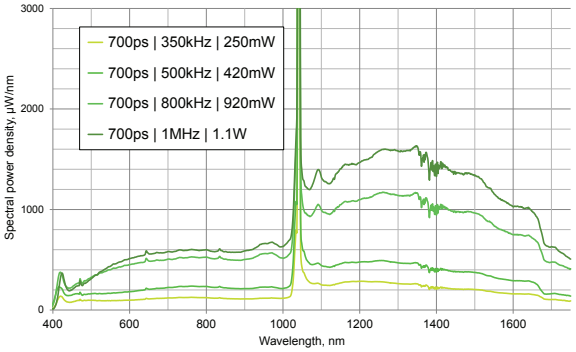
LEUKOS
Innovative Optical Systems

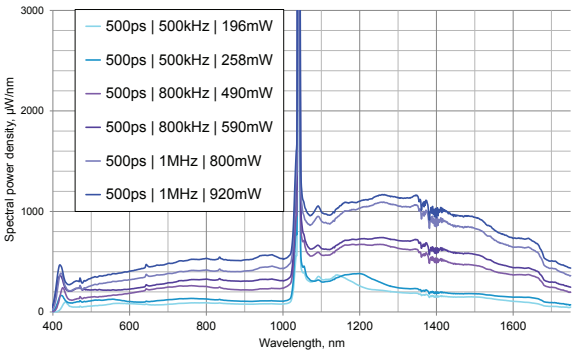
# PEGASUS

## Supercontinuum White Light Source

| PEGASUS | | |
|---|---|---|
| **Optical specifications** | | |
| Spectral bandwidth (1) | min | < 410 nm |
| | Max | > 2400 nm |
| Adjustable Total average power | | Up to 2 W |
| Adjustable Seed repetition rate (step 50 kHz) | min | 250 kHz |
| | typ | 1 MHz |
| | Max | 5 MHz |
| Adjustable Seed pulse width (2) | min | 300 ps |
| | Max | 4 ns |
| Power stability (3) | | < 1 % |
| Spatial mode | | Singlemode TEM00 |
| Polarization state | | Unpolarized |
| Output connection | | FC/APC Collimator (~ 1 meter armored cable) |
| Synchronization output | | External output trigger BNC connector (rear panel) |
| **Other specifications** | | |
| Control interface | | Front panel and USB |
| Operating temperature | | +15°C to +35°C non condensing |
| Weight | | < 9 kg |
| Dimensions (LxWxH) | | 430x330x80 mm |
| Power requirements | | 100-240V, 50/60Hz |




### Additional equipements

**1 Collimated output**
Lens or achromatic broadband collimator

**2 Fiber Assembly Unit**
Plug and play module allowing to couple with high transmission the laser into a FC/APC or FC/PC fiber

**3 Tunable filters**
AOTF, monochromators, automated tunable filters, tunable bandwidth filters

(1) The PEGASUS laser operates in constant peak power mode. It allows to keep the spectral bandwidth of the laser whatever the repetition rate and the pulse width are.

(2) Different pulse widths are available. Users can choose up to 6 values when ordering.

(3) Typical value of long-term stability for total average power, after warm-up time.


LEUKOS
Innovative Optical Systems

contactus@leukos-systems.com
www.leukos-systems.com


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

300 < λ < 2500 nm - P < 2.5 W - Qi < 4 µJ - 0.35 < ti < 4 ns
Class 4 (IV) Laser product IEC 60825.1 - 2007
Complies with 21 CFR 1040.10 and 1040.11

All specifications are subject to change without notice.


37 rue Henri Giffard, Z.I. Nord, 87280 Limoges - FRANCE • Tel. +33 587.200.025 • Fax. +33 555.381.739