

SuperK White Light Lasers

High Power, Ultra-Broadband Supercontinuum Sources

- 400-2400nm spectrum
- 1-6W total power
- Up to 10mW/nm power density
- Superior performance in the visible
- Single mode throughout spectrum
- Excellent stability
- Modular and upgradeable construction
- SpectraK wavelength tuning accessories
- Variable repetition rate option available

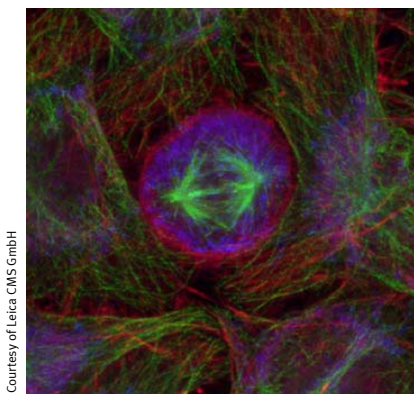
The SuperK™ product family are ultra broadband laser sources based on supercontinuum technology.

The standard SuperK™ Versa, Power & Extreme sources provide a comprehensive choice of output power, repetition rate and spectral coverage to cover any application requiring a source that is "Broad as a Lamp and Bright as a Laser".

The SpectraK accessory range increases the flexibility of the sources offering the advantage of accessing specific areas or wavelengths in the ultra-broad spectrum.

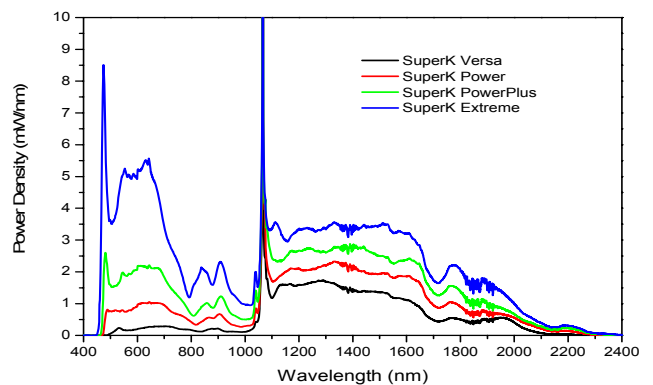
Examples of applications

- Confocal Fluorescence Microscopy
- Fluorescence Lifetime Imaging
- Flow Cytometry
- Atmospheric Sensing
- Radiometry
- Scientific (e.g. spectroscopy)
- Optical Coherence Tomography (OCT)
- Semiconductor wafer inspection

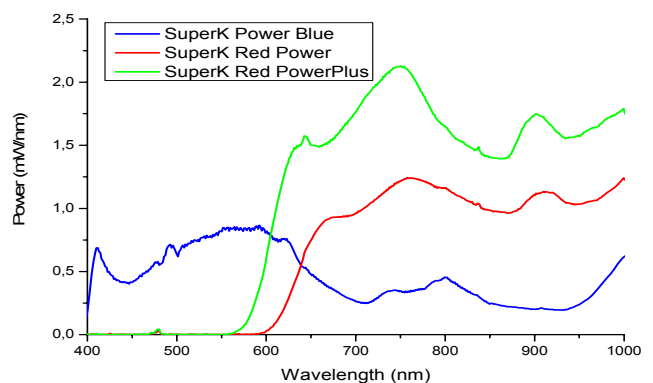


Courtesy of Leica CMS GmbH

HeLa cancer cell imaged from Leica SP5x confocal microscope with SuperK Extreme as the light engine



Typical spectral performance of SuperK range



Other SuperK system options available upon request



superK general-100112

Specifications are subject to change without notice.
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Standard SuperK White Light Lasers

Overview

	Versa	Power	PowerPlus	Extreme
Wavelength Range	490-2200nm	485-2200nm	465-2400nm	460-2400nm
Visible Spectral Density*	510-750nm	490-750nm	475-750nm	465-750nm
	Max	0.25mW/nm	0.8mW/nm	2mW/nm
	Min	0.1mW/nm	0.5mW/nm	0.75mW/nm
nIR Spectral Density*	750-1100nm	750-1100nm	750-1100nm	750-1100nm
	Max	5mW/nm	5mW/nm	5mW/nm
	Min	0.1mW/nm	0.25mW/nm	0.5mW/nm
IR Spectral Density*	1100-2000nm	1100-2000nm	1100-2000nm	1100-2000nm
	Max	1.5mW/nm	2mW/nm	2.5mW/nm
	Min	0.25mW/nm	0.4mW/nm	0.5mW/nm
Total Visible Power	>100mW	>300mW	>500mW	>1200mW
Total Average Power	>1.5W	>2.5W	>3W	>4.3W
Repetition Rate	80MHz			
Master Source Pulse Width	5ps			
Power Stability	<±1.5%			
Polarisation	Unpolarised			
M ²	<1.1			
Output termination	Fiber with collimator			
Beam Diameter	~1mm@VIS; ~2mm@1100nm; ~3mm@2000nm			
Beam Divergence	<5mrad			
Length of Output Fiber	1.5m			
Computer Interface	USB			
Sync Output Port	BNC			
Operating Voltage	100-240V, 50/60Hz			
System Cooling	Air Cooled			
Range of Operating Temp.	18-30°C			
Range of Storage Temp.	5-40°C			
Dimensions (WxHxL)	444 x 223 x 377mm			
Weight	15kg			

* Guaranteed specification upon delivery

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