Spectroscopy

Low power, single frequency diode lasers are ideal for the most common Raman spectroscopy set-ups, while high energy diode pumped solid state laser (HE-PuLS) open the possibility to step into all coherent Raman spectroscopy applications as well as remote Raman spectroscopy.

OEM Laser Solutions for Life-Science & Medical Applications
Reliable, Efficient, Durable

Lasers are nowadays widely used in medicine and its demand is growing rapidly thanks to its effectiveness and reliability. The advanced research in exist and new applications and the improvement of laser technology open new possibilities for laser-assisted treatments and therapies.

Monocrom has more than 25 years of experience and expertise delivering laser solutions for a wide range of life-science & medical applications.

We adapt to our customers needs, offering a high degree of flexibility and versatility for their most demanding applications.

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Raman Spectroscopy
- narrow linewidth
- < 1 W for microscopy application
- HE-SSL for remote Raman spectroscopy
diode laser as well as DPSSL

LIBS:
- single or dual-wavelength
- < 10 mJ to create a plasma
- Q-switched DPSSL

Cavity ring-down
- narrow linewidth (and tunable system)
- 680 nm – 1064 nm (depending on the trace gas)
diode laser as well as DPSSL

760-785 nm oxygen detection
767 nm K-Spectroscopy (D2)
780 nm Rb-Spectroscopy (D2)
795 nm Rb-Spectroscopy (D1)
822 nm Cs-Spectroscopy (D2)
922 nm Sr-Spectroscopy
953 nm Yb-Spectroscopy
953 nm Water-Spectroscopy

852 nm CS-Spectroscopy (D2)
962 nm Sr-Spectroscopy
967 nm K-Spectroscopy (D2)
777 nm Rb-Spectroscopy (D1)
808 nm Rb-Spectroscopy (D2)
852 nm CS-Spectroscopy (D2)
922 nm Sr-Spectroscopy
953 nm Yb-Spectroscopy
953 nm Water-Spectroscopy

Raman Spectroscopy: narrow linewidth
0.12 m / 0.78 m / 1.86 m
< 1 W for microscopy application
HE-SSL for remote Raman spectroscopy
diode laser as well as DPSSL

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Life-Science & Medical Applications
- industrial
- defense & aerospace
Dermatology & Aesthetics

Diode laser solutions for dermatology and aesthetics with different levels of integration, from laser stacks up to plug & play modules. We provide also electronics and optics giving the option of fiber coupling, too.

Our patented solder-free Clamping™ technology, ensures the optimal treatment of laser bars, obtaining high electro-optical efficiency and lifetime duration.

Ophthalmology

Solutions, 4 tips: Advanced retinal photocoagulation therapy based on diode-pumped solid state laser technology:
• Wide power range, fluence and pulse modulation
• Versatile, compact and robust design

Laser Cancer Treatment

Direct diode solutions in low power:
• Free-beam optics or fiber-coupled
• High brightness for localized treatments
• Excellent reliability