

enabling your ideas.



Optical, Power and Thermal Management Technologies

Application of Multi-Wavelength Raman Lasers in RSOM for dermatologic applications - Torsten Ledig



**solving your
engineering challenges using...**



OPTICAL TECHNOLOGIES



THERMAL MANAGEMENT

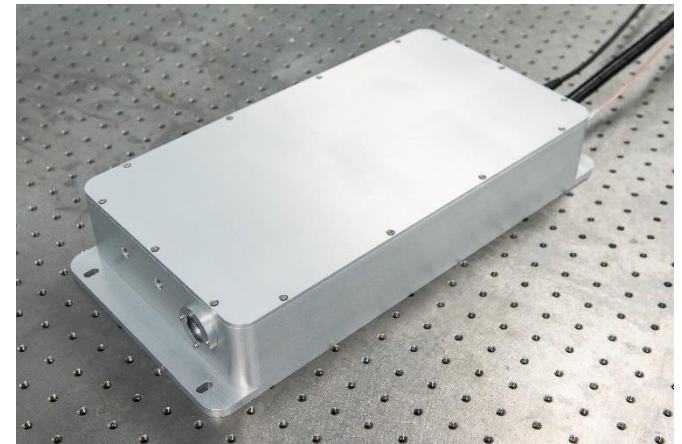


POWER TECHNOLOGIES



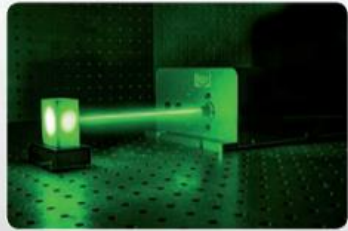
TETRA Multi-Wavelength DPSS Laser

- Diode pumped Solid State Laser at 532 nm
- Utilizing the Raman effect and the 532 nm pump laser further wavelengths at 555 nm, 579 nm and 606 nm are generated (first, second and third Stokes),
- Two box design (power supply and pump diodes in one box, fiber coupled)
- 532 nm „pump“ laser and Raman unit in laser head
- 4 wavelengths separated by tunable filter, fiber output optional
- Engineered and Designed at Elforlight and AMS Poland; manufactured at Elforlight

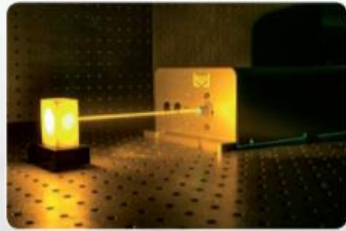


TETRA Laser Main Specifications

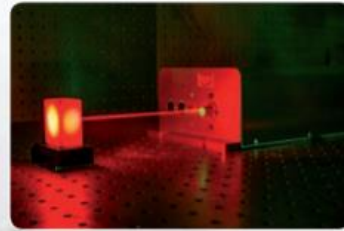
- Wavelength: 532 nm, 555 nm, 579 nm, 606 nm (others on request)
- Repetition rate: up to 2 kHz total (4 wavelengths at 500 Hz)
- Energy: 20 μ J (per wavelength, 606 nm: 10 μ J)
- Pulse width: < 5 ns
- Beam quality: close to TEM₀₀
- Wavelength tunable per pulse, external trigger option



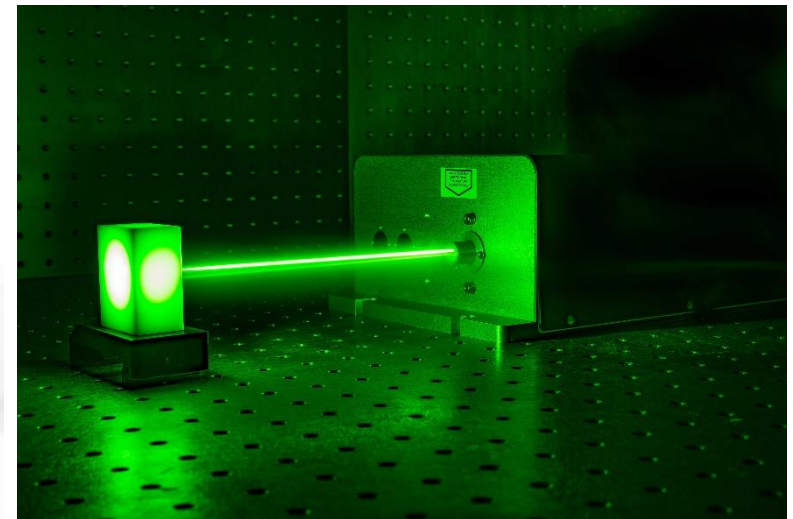
555 nm



579 nm



606 nm



532 nm

SOLUTIONS



enabling your ideas.

Optical, Power and Thermal Management Technologies

■ GERMANY

AMS Technologies AG
Fraunhoferstr. 22
82152 Martinsried, Germany
Phone + 49 (0) 89 895 77 0

■ ITALY

AMS Technologies S.r.l.
Via Copernico, 21
20025 Legnano (MI), Italy
Phone + 39 0331 596 693

■ SPAIN

AMS Technologies S.L.
C/Filadors 35, 3o, 7a
08208 Sabadell, Spain
Phone + 34 93 380 84 20

■ FRANCE

AMS Technologies S.A.R.L.
Silic 649 – Bâtiment Magnolia
16, avenue du Québec
91945 Courtaboeuf Cedex
Phone + 33 (0) 1 64 86 46 00

■ NORDICS

AMS Technologies Nordics
Azpect Photonics AB
Aminogatan 34
431 53 Mölndal, Sweden
Phone + 46 (0) 8 55 44 24 80

■ UNITED KINGDOM

AMS Technologies Ltd.
Nene House, Drayton Way
Daventry, Northamptonshire
NN11 8EA, United Kingdom
Phone + 44 (0)1455 556360

info@amstechnologies.com
www.amstechnologies.com
www.amstechnologies-webshop.com