

## Market Table - Wavelength and Application

WAVELENGTH $\lambda$ (nm)	APPLICATION	MARKET
405	Lithography, Epoxy Curing, Photodynamic Therapy	Medical
630-635, 652, 668	Photodynamic Therapy	Medical
670	Cr <sup>3+</sup> : LiSAF-fs-Laser	DPSSL
689, 730	Age-Related Macular Degeneration, Photodynamic Therapy	Medical
780, $\Delta\lambda < 1$	Diode Pumped Gas Laser (Rubidium Vapor)	Defense (High Energy Laser)
785	TM <sup>3+</sup> :YAG to Generate $>2\mu\text{m}$ Laser Radiation for Medical/Avionics	DPSSL
792, 797	Nd <sup>3+</sup> : YLF	DPSSL
795 $\Delta\lambda < 1$	Rb <sup>3+</sup> / Xe <sup>139</sup> / - Pumping Hyper Polarization of Inert Gases for Magnetic Resonance Imaging	Instrumentation
805, 808	Nd <sup>3+</sup> : YAG, and Nd <sup>3+</sup> :YVO <sub>4</sub>	DPSSL
810 $\pm 10$	Soldering, Plastics Welding Cosmetic, Hair Removal, Dental, Biostimulation, Surgical, Vascular, Ophthalmology	Materials Processing Medical
830	Pre-Press, Computer-to-Plate (CTP), Direct-on-Press (DOP)	Graphic Arts
852 $\Delta\lambda < 1$	Diode Pumped Gas Laser (Cesium Vapor)	Defense (High Energy Laser)
868-888	Nd <sup>3+</sup> : XXX (Various Host Crystals)	DPSSL
901	Yb <sup>3+</sup> : SFAB	DPSSL
905	Laser Range Finding	Defense
915	Yb <sup>3+</sup> : Glas, Fiber Laser	DPSSL Medical
940	Yb <sup>3+</sup> : YAG, Disk, Soldering, Plastics Welding, Welding Varicose Vein Removal, Surgical Applications	DPSSL Materials Processing Medical
968, 973-976	Yb <sup>3+</sup> : YAG, Disk Yb <sup>3+</sup> : Glas, Fiber Laser	DPSSL
980 $\pm 10$	Dental, Prostate Treatment, Surgical, Ophthalmology Soldering, Plastics Welding, Welding	Medical Materials Processing
1064	Hair Removal, Tattoo Removal	Medical
1210	Liposuction	Medical
1320-1380	Surgery	Medical
1450-1470	Acne Treatment, Endovenous Laser Treatment, Surgery Turbulence Detection, Er <sup>3+</sup> Pumping	Medical Avionics DPSSL
1530, 1650, 1700	Er <sup>3+</sup> : YAG, Rangefinder, Missile Defense	DPSSL Defense
1850-2200	Acne Treatment, Surgical Substitute for Thulium-Laser, Ho <sup>3+</sup> : Pumping, Turbulence Detection, Welding/Marking of Transparent Plastics	Medical DPSSL Avionics Material Processing