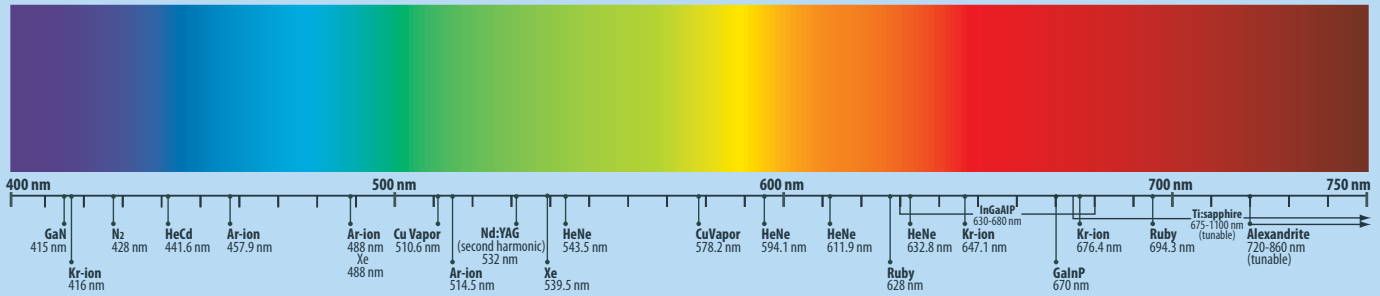
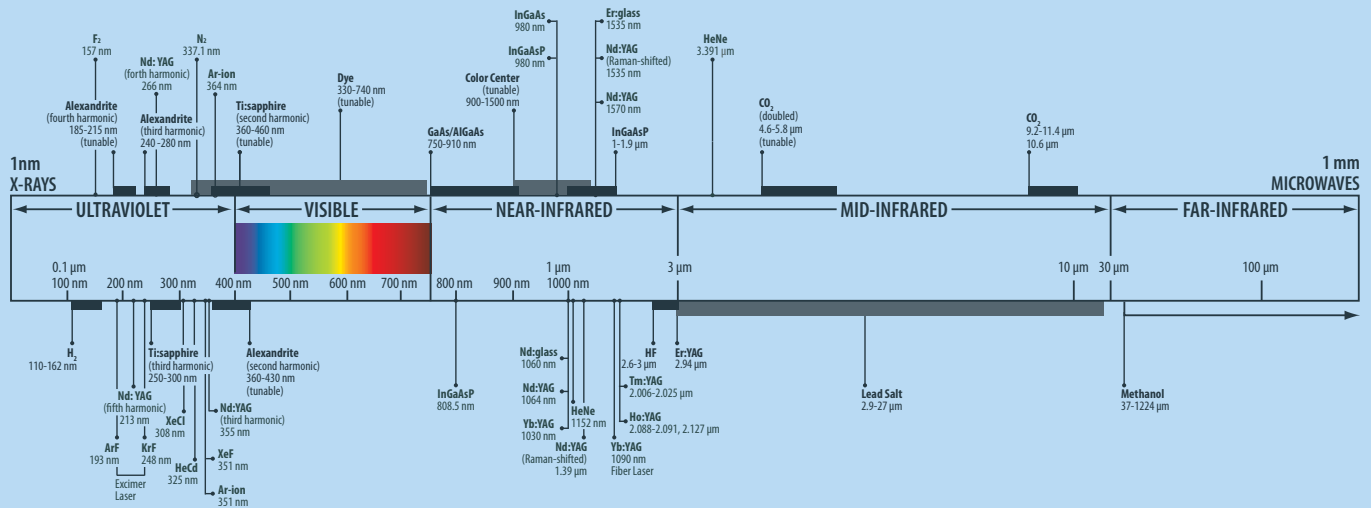


Laser Wavelengths

Visible Light Spectrum



Laser Wavelengths



Major Medical Lasers and Their Applications

LASER TYPE	WAVELENGTH, nm	SPECTRUM	MAJOR APPLICATIONS
Carbon Dioxide (CO ₂)	10,600	far-infrared	dermatology, surgery, cardiology
Carbon Dioxide (CO ₂)	9600	far-infrared	<i>dentistry</i>
Erbium (Er:YAG, Er:YSSG)	2940	mid-infrared	<i>dermatology, dentistry, ophthalmology</i>
Holmium (Ho:YAG)	2100	mid-infrared	<i>cardiology, orthopedics, urology, ophthalmology</i>
Neodymium YAG (Nd:YAG)	1064	near-infrared	ophthalmology, urology, surgery
Diodes	630–989	visible to near-infrared	dermatology, dentistry, surgery, PDT, <i>biostimulation, ophthalmology</i>
Alexandrite	755	near-infrared	<i>dermatology</i>
Ruby	694	red	<i>dermatology</i>
Helium neon (HeNe)	632	red	<i>biostimulation</i>
Tunable Dye	632, 504, 577	red, yellow, green	dermatology, surgery, PDT
Doubled YAG (KTP)	532	green	surgery, <i>ophthalmology</i>
Argon	488, 515	blue, green	dermatology, surgery, ophthalmology, dentistry
Excimer (XeCL)	308	ultraviolet	<i>cardiology, dermatology</i>
Excimer (ArF)	193	ultraviolet	<i>ophthalmology</i>

Note: Application in *italics* represent growth markets.
Source: Spectrum Consulting, February, 2003.

