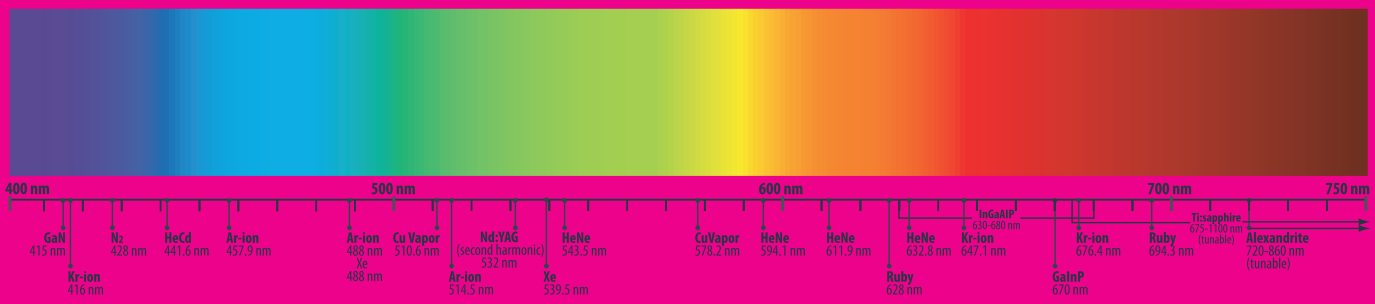
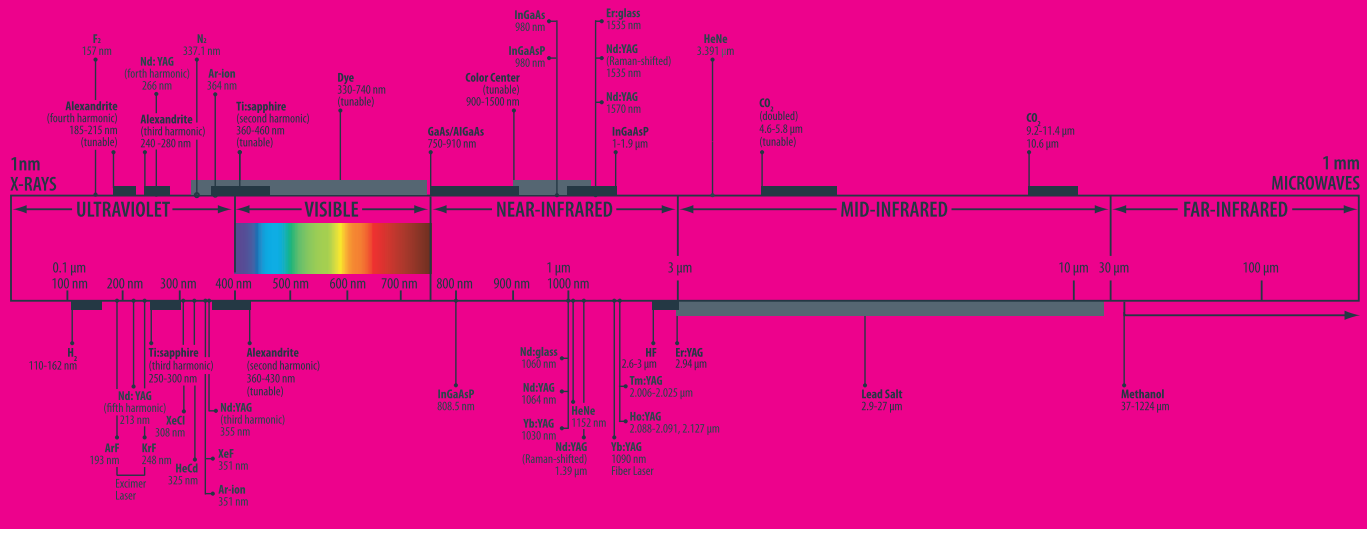
Laser Wavelengths

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	dentistry
Erbium (Er:YAG, Er:YSSG)	2940	mid-infrared	dermatology, dentistry, ophthalmology
Holmium (Ho:YAG)	2100	mid-infrared	cardiology , orthopedics, urology, ophthalmology
Neodynium YAG (Nd:YAG)	1064	near-infrared	ophthalmology, urology, surgery
Diodes	630–989	visible to near-infrared	dermatology, dentistry, surgery, PDT, biostimulation, ophthalmology
Alexandrite	755	near-infrared	dermatology
Ruby	694	red	dermatology
Helium neon (HeNe)	632	red	biostimulation
Tunable Dye	632, 504, 577	red, yellow, green	dermatology, surgery, PDT
Doubled YAG (KTP)	532	green	surgery, ophthalmology
Argon	488, 515	blue, green	dermatology, surgery, ophthalmology, dentistry
Excimer (XeCL)	308	ultraviolet	cardiology, dermatology
Excimer (ArF)	193	ultraviolet	ophthalmology

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

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