

Knight Optical's Custom YAG components

YAG (Yttrium Aluminium Garnet, Yttrium Aluminium Oxide Y₃Al₅O₁₂) is a durable, synthetic material belonging to the garnet group. It can be used as an alternative to sapphire, both being easier to polish and not exhibiting the latter's birefringence.

YAG is frequently used in solid state laser systems where doping with certain rare elements such as neodymium and erbium to improve performance, e.g. Nd:YAG, Er:YAG, etc. Undoped YAG transmits between 0.21-5.5μm.

YAG is typically used as an active laser crystal when doped, but its durability and optical properties mean it can also be used as an optical material in place of sapphire. YAG lasers have a broad range of applications, from ophthalmology in medicine to laser range finding equipment for military use.

Knight Optical supply a range of quality YAG optical components including YAG windows, YAG lenses, YAG prisms, and YAG blanks either from stock or bespoke custom made to your specification for a range of applications. Every component is individually tested by our highly skilled technicians in our state of the art metrology lab to ensure all components meet our high quality standards.

Contact our multilingual technical sales team and discover how Knight Optical's high quality YAG optical components and service can improve your instrumentation and supply chain experience.

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[YAG ground blank capabilities](#)

[YAG prism capabilities](#)

[YAG meniscus lens capabilities](#)

[YAG spherical lens capabilities](#)

[YAG window capabilities](#)

[Contact our technical sales team](#) to discover how Knight Optical's high quality Germanium Windows and superior service can improve your instrumentation and supply chain experience.

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