Knight Optical can offer YAG Optics for Infra-red systems over the waveband of 0.21 to 5.5µm. We offer YAG optics for the MWIR (3 to 5µm) Imaging Systems. YAG has a good transmission in the MWIR wavelengths, and can be used with, for example, Silicon or Zinc Selenide, given its refractive index range is lower than the two of them, to form corrected doublets and lens systems.

These systems include, for example, Forward Looking Infra-Red (FLIR) systems and YAG, with suitable dopants, lasers. YAG has a range of refractive indices from 1.9278 at 0.27µm, to 1.8113 at 3µm. This glass will produce a well corrected lens system using other IR glasses and by diamond turning, such as Silicon, Germanium, or Calcium Fluoride. The figure shows the FLIR system and transmission curves.

ZnS is primarily used as windows and lenses in the MWIR (3 to 5µm) wavelengths and as doped YAG laser.

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

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