Knight Optical supply high quality Germanium optics used in Thermal Cores and Thermal Imaging Cameras. We also provide Sapphire window solutions to protect your camera in the harshest environments.

Aside from Military applications, Thermal Imaging Cameras are used extensively in commercial CCTV for monitoring, security and surveillance. Our Germanium solutions are also used in a range of other Infra-red Technologies such as C02 lasers.

- Monocrystal and Polycrystal Germanium has excellent transmission across 2-14 micron mid and long-wave bands. Performance can be increased with use of Broadband Antireflective coatings. DLC coating can be applied to cope with harsh environments.

Spherical, diamond turned aspheric and cylindrical Lenses. Flat polished windows up to 380mm dia. Wedge prisms with high angular tolerances up to 5 arc seconds.

- Sapphire windows for camera body covers that are virtually unbreakable. These can be either circular or square in shape with machined CNC rebated edges to suite your camera needs, from 5mm dia to 250mm dia.

A range of Broadband Anti-reflective coatings are available to prevent reflections and increase transmission performance.

Our state-of-the-art Metrology Laboratory and Quality Assurance departments ensure each component is individually checked and arrives to your specification with complete satisfaction.

Transmission is verified by our range of Spectrophotometers, flatness and form error of surfaces are tested using our Zygo XPZ Interferometer, angles are verified using our Trioptics Prism Master, and scratch/dig quality is assured using our Bryson scratch/dig masters.

Please telephone our technical sales team today to discover how our High Quality Components and service.

HIGH QUALITY GERMANIUM AND SAPPHIRE OPTICS
FOR THERMAL IMAGING AND SURVEILLANCE CAMERAS