

## KO | BRINGING QUALITY INTO FOCUS

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### **Knight Optical thermal imaging coatings are Diamond!**

Knight Optical are very experienced within the Thermal Imaging market, including anti-reflective and [diamond-like-carbon coatings](#) used on the optical components in these systems. Knight Optical know exactly what you are looking for.

Thermal imaging uses infrared materials such as Germanium and Silicon, however in their raw form the transmission is not the best it could be. For example, Germanium typically transmits at <45% but with an AR coating applied, it can improve transmission to >60%. This increase in transmission means that the camera sensor receives a better signal through the protective window.

Also with protective windows, we can provide high quality DLC coatings. We ensure the coating is Salt Fog Tested to MIL-SPEC standard to ensure that the coating withstands harsh environments. The coating has high mechanical hardness and high resilience to external stress.

Knight Optical offers a wide range of coatings for AR/DLC which are typically:

- ✓ [AR coating at 1-3µm](#)
- ✓ [AR coating at 3-5µm](#)
- ✓ [AR coating at 7-14µm](#)
- ✓ [AR coating at 8-12µm](#)
- ✓ [All the above coatings can be combined with DLC at the same wavelengths](#)
  - [Germanium AR/DLC at 3-5µm](#)
  - [Germanium AR/DLC at 2-14µm](#)
  - Visible DLC is also available

**All our Coatings are fully inspected on their quality in our ISO 9001:2015 certified, state-of-the-art Metrology laboratory, using our Cary 660 IR Spectrophotometer for precise transmission/blocking data. This allows us to work to the highest [QA standards](#) and meet the tolerance specifications on these **precision components**.**

[Contact our technical sales team](#) to discover how Knight Optical's high quality coatings bring quality into focus.

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