



Discover how we can improve your  
instrumentation and supply chain  
experience today!

## KO | BRINGING QUALITY INTO FOCUS

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### **Knight Optical's Custom Infra-red Gas Cells**

A broad variety of gas transmission cells are available for the analysis of gas and vapour phase components in infrared optical spectroscopy.

These range from short path length gas cells for percent level concentration measurement, to long path length [gas cells](#) for part-per-billion concentrations. Options include fixed and variable path length gas cells, as well as ambient temperature and heated gas cells.

The windows that can be used with the gas cell include NaCl, KBr, CaF<sub>2</sub>, BaF<sub>2</sub>, or ZnSe infrared transmission windows, which are mounted in an optical spectrometer.

Knight Optical supply high quality Gas Cells optical components made to our exacting specification.

These infra-red gas cells are not available as a stock item, please go to [Custom infra-red gas cells](#)

**Typical materials used for windows in custom gas cells are:**

[IR material calcium fluoride](#)

[IR material quartz crystal](#)

[IR material Sapphire C-cut UV](#)

[IR material zinc selenide](#)

For more information go to:

[Infrared gas cells for the analysis of gasses and vapour components in infrared optical spectroscopy](#)

[Gas Cells for use in Continuous Emission Monitoring Systems \(CEMS\) and Gas Spectroscopy](#)

Knight Optical supply a broad variety of gas transmission cells which are available for the analysis of gas and vapour phase components in infrared optical spectroscopy. IR Gas Cells range from short pathlength for percent level concentration measurement, to long pathlength gas cells for part perbillion concentrations. Options also include fixed and variable pathlength gas cells, as well as ambient temperature and heated gas cells

Every component is individually tested by our highly skilled technicians in our state of art metrology lab to ensure all components meet our high quality standards.

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

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