Knight Optical supply precision optical components to customers in the gas and vapour detection industry for applications such as Continuous Emission Systems (CEMS), combustion analysers, and environmental monitoring. Knight Optical's extensive range of components include:

- **Singlet lenses and optical windows**: made from materials such as Calcium Fluoride (CaF2), Germanium (Ge), Silicon (Si), Quartz/Fused Silica, Magnesium Fluoride (MgF2), and Sapphire (Al2O3).

- **Interference Bandpass Filters**: for infrared wavelengths to select the spectral peaks of gases, such as:
  - Carbon Monoxide (CO) – 4.73µm
  - Nitric Oxide (NO) – 5.24µm
  - Nitrogen Dioxide (NO2) – 6.17µm
  - Sulphur Dioxide (SO2) – 7.42µm
  - Hydrogen Chloride (HCl) – 3.55µm
  - Carbon Dioxide (CO2) – 10.7µm

- **IR filters that can block sidebands from visible wavelengths through to 20µm and offer transmission peaks over 90%T.**

- **Front surface mirrors**: plane and concave: with coatings such as enhanced Aluminium and protected Gold for IR wavelengths.

- **Gas cells**: to contain gasses at pressures up to 4bar using stainless steel enclosures and Magnesium Fluoride windows.

Contact our Technical Sales team to discuss your requirements:

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