



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

## KO | BRINGING QUALITY INTO FOCUS

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### Custom domes for Pyrometers

**Knight Optical** has successfully launched a range of [Stock Optical Domes](#) for use in Pyrometers.

[Pyranometer/pyrgeometer](#) are used for measuring solar irradiance. Typical applications being to understand where insulation needs to be within a building, climate studies and solar monitoring systems.

A dome is essentially a window that has two parallel curves faces. Domes are used to shield the thermopile/ sensor used for making the measurements within a Pyranometer.

Our domes are polished to high standards having good form error and high clarity with excellent transmission in the UV, NIR and FarIR spectrums allowing for accurate measurement.

**Capabilities:** Domes are readily mountable, optically clear and manufactured to a high standard. Available from 5mm to 200mm in diameter and 0.25 to 10mm in thickness offering high transmission and **extreme toughness for harsh environments**.

**We can manufacture these in a range of materials for solar monitoring from Ultraviolet to Infrared:** As well as fused silica, domes can be in any of the [additional materials](#):

- Schott N-BK7 or NBK10 for Visible applications.
- UV grade fused silica for UV applications.
- Silicon for 3-5 micron in the Mid-IR band.
- Germanium for 7-14 micron Longwave-IR band

**All our domes are checked for quality in our state-of-the-art** Metrology laboratory using equipment from Trioptics, Varian and Starret allowing us to work to the highest [QA standards](#) and meet the tolerance specifications on these **precision components**.

[Contact our technical sales team](#) to discuss your requirements for optical domes, as well as our other components.

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