



QUANTIC

The UK Quantum Technology Hub
in Quantum Enhanced Imaging

IndiPix™: Mid-infrared sensing and imaging technology

How can we image CO₂ emissions? How can we develop cameras that can image in low light conditions, or image particular biological structures?

Medium wavelength infrared sensors based on antimonides are already available and QuantIC is developing IndiPix™, a new kind of image sensor based on this technology that will open new applications in biological imaging, security and sensing.

We have successfully demonstrated a novel active InSb pixel technology capable of addressing individual pixels of a focal plane array without needing a flip-chipped input-output circuit. We have now demonstrated mid-IR imaging with small size 4x4 and 8x8 pixel arrays, and test work is underway on a 64x64 pixel array, the first large format monolithically integrated mid-IR imager.

QuantIC is working in collaboration with a range of industry partners including Gas Sensing Solutions and we are looking for partners interested in new imaging sensors based on this technology and possible modifications to address market needs and deliver competitive advantage in the following areas:

- Gas sensing
- Biological imaging
- Agricultural and Food storage applications
- Energy and Environmental monitoring




QuantIC has a £4M Partnership Resource Fund to support industry led projects to develop our new technology and facilitate its translation to market commercialisation.

For more information, please contact:

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