Infrared cameras are used in a variety of industrial applications but they can be expensive with their many millions of pixel arrays. What if you had a cheaper camera that could do the same but with just one pixel? With the Single Pixel Camera, this is now possible.

QuantIC is developing cameras that have only one pixel, but when combined with the technology similar to that found in a digital cinema projector these single pixel cameras still produce real time video.

The advantage of the single pixel approach is that it is much cheaper than a multimillion infrared pixel array, where traditional cameras are expensive or even impossible.

We are already working with the private sector on a number of different industrial applications including the imaging of leaking gas with M Squared Lasers and a 3D imaging project with Finmeccanica-Selex ES.

QuantIC is interested in further technical modifications leading to new applications of this technology to address market needs and deliver competitive advantage in the following areas:

• Security and Defence
• Agriculture and Food processing
• Emergency services
• Medical imaging
• 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.

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