



QUANTIC

The UK Quantum Technology Hub
in Quantum Enhanced Imaging

Led-by-LED™: LED positioning and tracking system

How can a device determine its own position using lighting in a room? How can smart lighting be used to transmit information?

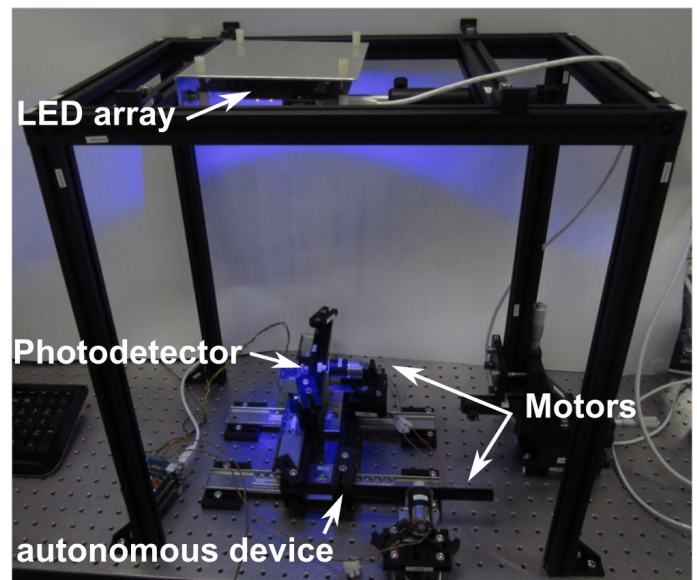
LED lights are commonly used in lighting rooms and at QuantIC we are developing ultrafast LED illumination capable of projecting patterns and sending information at such fast speed, greater than 100MHz, that are also undetectable to the human eye. The patterns are used by sensing devices to determine their position accurately within an environment and the information can direct them to undertake tasks.

QuantIC has worked with industry partner mLED on developing the new technology and is now seeking to advance demonstrator projects in collaboration with a range of industry partners to explore possible applications where the “led-by-LED” technology can address market needs and deliver competitive advantage.

We are working with Aralia Systems to develop a photometric stereo imaging system for the next generation of video surveillance.

We are looking for new industry partners interested in developing systems and possible modifications based on this technology to address market needs in the following areas:

- Smart Lighting Systems
- Internet of Things
- Optical Wireless Communications
- Security and Defence



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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