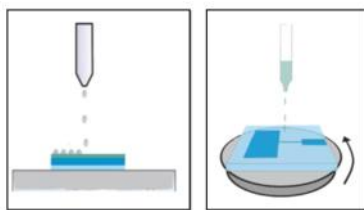


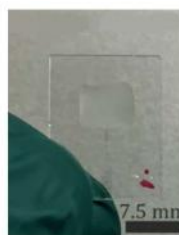
# Drop-on-demand manufacture of optically transparent antenna

Precise on-demand positioning of nematic liquid crystal material for use as optically transparent antenna or sensors.

**Applications:** 5G or 6G, display screens, smart technology



Precise on-demand positioning of nematic liquid crystal material for use as sensors or antenna or both.



| Features                                                           | Benefits                                                                                                                                                                          |
|--------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Drop-on-demand unique manufacturing                                | Fast and precise manufacturing method devised by the team that reduces waste                                                                                                      |
| Transparent liquid crystal materials                               | Antennas formed are also transparent and can be implemented in any devices that include a display or screen to meet the ever-growing demand for increased connectivity capability |
| Controllable operational frequency                                 | Avoids congestion and improves communication quality                                                                                                                              |
| Liquid crystal materials can be designed to respond to temperature | Allows the antenna to perform a dual use across both sensing and comms                                                                                                            |

## Awaiting patent and Available for

- Co-development
- Consulting
- Licensing

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To find out more, contact [enquiries@innovation.ox.ac.uk](mailto:enquiries@innovation.ox.ac.uk) and quote the project number.

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