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Scientists develop touch-less screen technology to restrain virus spreading

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A touch sensor which senses a proximal or hover touch even from a distance of 9 cm from the device

Bengaluru-based scientists from the Centre for Nano and Soft Matter Sciences (CeNS), and Jawaharlal Nehru Centre for Advanced and Scientific Research (JNCASR) have provided an affordable solution to develop a low-cost touch-cum-proximity sensor popularly called touchless touch sensor through a printing technique.

The team has set up a semi-automated plant for the production of printing-aided patterned (resolution of around 300 µm) transparent electrodes, which has the potential for being utilized in advanced touchless screen technologies.

“We are making a few more prototypes using our patterned electrodes to prove their feasibility for other smart electronic applications. These patterned electrodes can be made available to interested industries and R&D labs on a request basis to explore collaborative projects,” said Dr. Indrajit Mondal, a co-author in the research.

The novel low-cost patterned transparent electrodes have tremendous potential to be used in advanced smart electronic devices like touchless screens and sensors. This touchless touch sensor technology could assist in preventing the spread of viruses that spread through contact.