



Transparent overlay adds gesture control to any display

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A flexible and transparent image sensor. Credit: Optics Express.

A new generation of gesture controlled displays could be driven by a flexible, transparent image sensor developed by a team of Austrian researchers at the Johannes Kepler University in Linz. The developments, detailing a new way of capturing images using a potentially disposable polymer sheet, were recently published in the Optical Society's (OSA) journal *Optics Express*.

The new imager, which resembles a flexible plastic film, uses fluorescent particles to capture incoming light and channel a portion of it to an array of sensors framing the sheet.

"To our knowledge, we are the first to present an image sensor that is fully transparent – no integrated microstructures, such as circuits – and is flexible and scalable at the same time," said Oliver Bimber of the Johannes Kepler University Linz in Austria, co-author of the *Optics Express* paper.

Researchers say the technology could be used as a transparent overlay that would seamlessly transform displays into gesture controlled devices without the use of cameras or external motion-tracking devices.

Read full [press release](#) from the Optical Society

