



[Print this page](#)

## Here comes flexible and transparent imaging device

21 Feb 2013, IANS, CIOL



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

VIENNA, AUSTRIA: Austrian researchers have developed an entirely new way of capturing images based on a flat, flexible, transparent and potentially disposable polymer sheet.

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.

With no electronics or internal components, the imager's elegant design makes it ideal for a new breed of imaging technologies, including user interface devices that can respond not to a touch, but merely to a simple gesture, the journal *Optics Express* reports.

"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," says Oliver Bimber of the Johannes Kepler University Linz in Austria, who co-authored the study.

The main application the researchers envision for this new technology is in touch-free, transparent user interfaces that could seamlessly overlay a TV or other display technology, according to a Kepler statement.

© Copyright © 2012. CyberMedia (I) Ltd All rights reserved.

Reproduction in whole or in part in any form or medium without written permission is prohibited.