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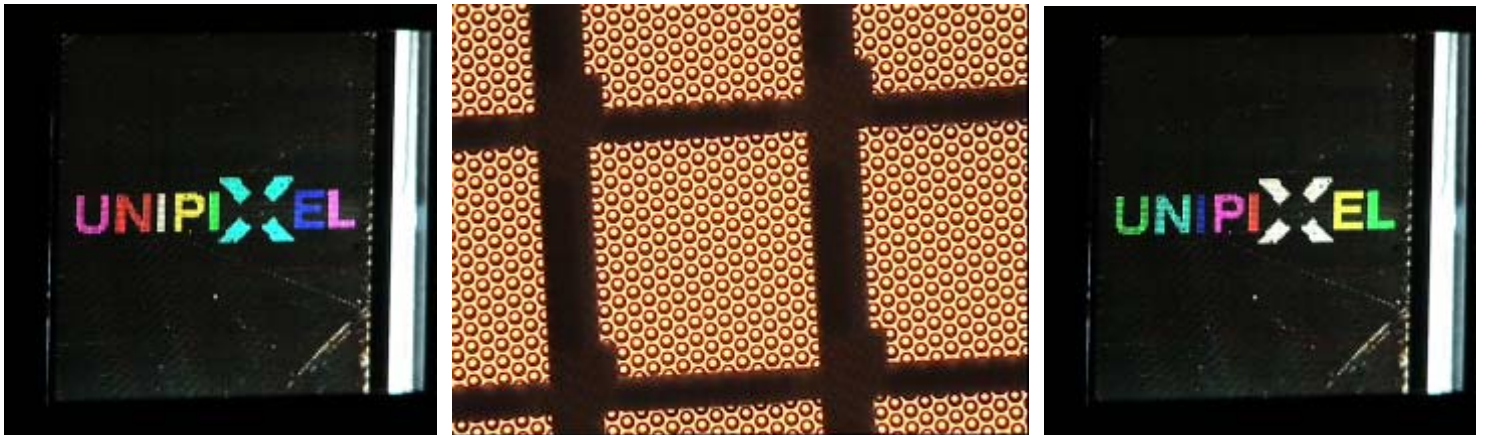
High resolution news from around the world

compiled by Mark Fihn and Phillip Hill

UniPixel takes TMOS systems to new levels with prototype assembly

Uni-Pixel Displays announced the successful assembly of a series of prototype devices. Working with the MiPlaza Open Innovation Center in Eindhoven, UniPixel has begun assembling units to demonstrate various implementations of its Time Multiplexed Optical Shutter (TMOS) systems. The first of these systems are now being demonstrated along with results of testing on the systems. The images below show a first test prototype that incorporates UniPixel's Opacity Active Layer film. The Opacity Active Layer has UniPixel's proprietary micro optic structures combined with a patterned conductor implementation. The prototypes demonstrate the micro optic structures coupling light from the light guide generating a variety of output colors from the edge mounted RGB LEDs. UniPixel has also assembled prototype devices integrating the thin film transistor (TFT) backplanes provided by Philips Research Labs' Eindhoven fab. These systems have performed within the expected target ranges to include pixel activation and operation at less than 10V, and membrane speeds of less than 10 microseconds supporting full motion video capability. UniPixel is currently iterating forward on additional prototype system builds that integrate advancing subsystem implementations. In addition to including the latest Opacity films to demonstrate the optical performance, improved light injection systems and electronic control algorithms are being integrated with these next iterations as well.

UniPixel expects to demonstrate a complete set of prototype units with the enhanced subsystem designs at the SID conference in May. These prototypes will include direct drive segment and dot matrix units as well as TFT-based prototypes demonstrating full motion video. <http://www.unipixel.com>



The multi-colored "UniPixel" images are screen shots of the first TMOS systems. The photo in the center is a micrograph of a TFT backplane with UniPixel's Opacity Active Layer film, which couples light from the light guide into a variety of output colors from edge-mounted RGB LEDs.

<http://www.veritasetvisus.com>