

World's Smallest 3D HD Display

Written by Bob Snyder
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What HAST man wrought? Ortus creates a Hyper Amorphous Silicon TFT (HAST) screen. Shown at Tokyo's Embedded Systems Expo, the latest 4.8" LCD screen from Ortus shows 2D images at the 458 pixels per inch rate and shows 3D images at 229 pixels per inch. This rate of pixels per inch will be able to show full HD resolution images with a final resolution of 1920 x 1080 pixels.

The 3D does require the use of glasses to see the images (unlike other small format 3D screens such as Nintendo 3DS). The 3D images will have a viewing angle of 160 degrees and will be able to display up to 16.77 million colors.

The 3D effect is created with a circular polarizing film known as Xpol, developed by Arisawa Manufacturing. The film needs to be precisely placed on the screen because this technology shows images for the left and right eye alternately on each line, halving the vertical resolution.

In 2010, Ortus Technology Co., Ltd. was established to develop, manufacture, and conduct sales of small and medium-sized displays. Its shareholders are **Toppan Printing Co., Ltd.** and **Casio Computer Co., Ltd**

Ortus Technology, initially to specialize in the small and medium-sized LCD business it has

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taken over from Casio Computer, now looks for its future in OLED.

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