TANNAS ELECTRONIC DISPLAYS

Newsletter on Developments in LCD Resizing

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Tannas to Show Transparent Custom-Sized LCD at DSE 2014

For the first time at DSE, Tannas Electronic Displays (TED) will show a transparent LCD display that has been cut to a custom size. The prototype display began its life as a Samsung 46-inch-diagonal transparent display with 16:9 aspect ratio.

TED's skilled technicians cut 4-inches off the long side to create a fully functional transparent display with an image area of 40 by 20 inches and an aspect ratio of 2:1. We have also resized AUO 65-inch transparent displays.

In DSE Booth 746, TED will show the resized display as an unmounted panel, allowing visitors to get the best possible understanding of how transparent LCDs work. Such displays are used in commercial refrigerator doors for supermarkets and in retail windows and presentation boxes made by a variety of companies. TED's resizing process enables customers to fit their displays to any size refrigerator door or active retail application.

When you see the TED display, you may think of new applications we can work on together. When you think about possible applications, please remember that TED can cut LCDs down to nearly any size your imagination or application may require.

In addition to resized transparent and backlit 46-inch displays, we will also show a display that is resized to a bit less than 3 by 3 inches. We did this specifically for aerospace simulators, and this 3ATI display is proving very successful for that application; but you can also think of it as a small, square digital sign. With resizing, your customer can put his digital message anywhere, from shelf edges to posts to custom installations.

What TED Does

TED develops essential technologies for the custom resizing of liquid-crystal displays (LCDs). We first started doing this more than a dozen years ago when manufacturers stopped making the square cathode-ray tubes previously used in aircraft instrument panels. The aerospace industry desperately needed a flat-panel replacement for these ARINC standard display sizes. Now, TED manufactures several ATI-format displays, resizes LCD panels to customer requirements, and licenses LCD resizing technology for aerospace, industrial, and digital-signage applications.

TED continues to improve resizing and sealing technology, develop new methods, patent new techniques, enable the development of new products, and support our existing and future licensees. We resize panels for customers in prototype, design-sample, proof-of-concept, and low-volume production quantities.

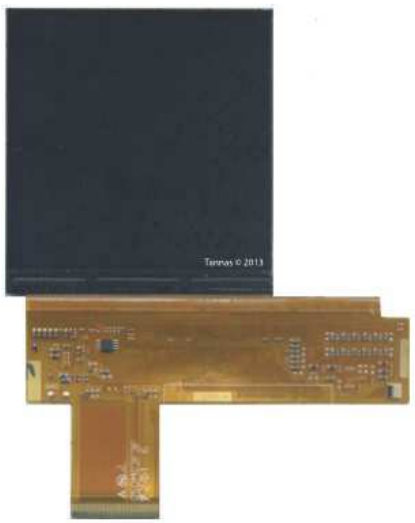

Figure 1. TED 3ATIP4 LCD ***(Photo: Tannas Electronic Displays)***

As volume requirements increase, we help our customers make a smooth transition to one of our licensees. Some customers have chosen to become licensees themselves, and produce resized displays for internal use and/or external sale.

To schedule a meeting at DSE 2014, please email Larry Tannas at l.tannas@tannas.com or Ken Werner at kwerner@nutmegconsultants.com, or you can simply drop by. The potential for resized LCDs is tremendous and growing. See the opportunities for yourself in Booth #746.

Tannas Signs Nine Licensees in Sixteen Months

In September 2013, **ADITECH Fluessigkristallanzeigen GmbH** (Heidenheim, Germany) became TED's latest licensee, the ninth in 16 months.

Licensees have their own specialties, including avionics, railway information systems, custom digital signage, and commercial high-aspect-ratio (bar-type) monitors.

TED's other licenses are:

ANNAX (Anzeigesysteme GmbH, Munich, Germany), which resizes LCDs for internal use in its own railroad and other transportation information systems.

BMG MIS (Ulm, Germany), which focuses on digital signage, and for internal use in its railroad systems.

LITEMAX Electronics (Shin-dian City, Taiwan), which uses the technology for its Spanpixel line of high-aspect-ratio displays and for other high-brightness products.

MRI (Atlanta, Georgia), which resizes backlit LCDs for large bus-stop signs, and transparent LCDs for commercial refrigerator doors to replace the typical glass doors used in supermarket refrigerator cases.

STI (Anseong City, Korea), which resizes panels for a variety of customers.

TOVIS (Incheon, Korea), which resizes panels for a variety of customers, and is a leading supplier of signage for the gaming industry.

GSD (Gumi-city, Korea), which resizes panels for a variety of customers and applications.

And in Shanghai, there is early-stage licensee **VitroLight**, which resizes back-lit and transparent panels for a variety of customers.

Symbolic Displays, Inc. (SDI) (Santa Ana, California), is TED's oldest licensee, specializing in aerospace applications.

As they become available, exhibitors' press releases will appear on the TED website, www.tannas.com.

If you would like to explore the benefits of becoming a TED licensee, please email Larry Tannas at l.tannas@tannas.com or Ken Werner at kwerner@nutmegconsultants.com.

Judgment Against Luxell Now Enforceable in U.S. and Canada

Tannas recently obtained an Order from the Ontario (CANADA) Superior Court recognizing Tannas' $281,173 United States judgment against Luxell, plus costs. Tannas intends to collect on the judgment, which is now enforceable in the United States and in Ontario (CANADA).

TED routinely takes action to protect its licensees and customers from unfair competition.