New 22 Inch TFT LCD Displays from Fujitsu target PC Multimedia and Television MarketsTarget

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London, September 1st 2003. Fujitsu Microelectronics Europe has announced the introduction of two 22-inch high-definition, full colour active matrix TFT-LCD displays for PC multimedia and television applications. A new robust structure makes the panels resistant to external stress and vibration, making them ideal for use in consumer environments.

Giving an effective 22-inch diagonal screen size equivalent to a 25-inch CRT, these latest LCD displays integrate Fujitsu's MVA (Multi-domain Vertical Alignment) 'Premium' technology, which offers significant enhancements in contrast ratio and overall viewing angle, while reducing response time down to 25ms.

Fujitsu's advanced TFT-LCD MVA process technology features liquid crystal molecules angled in more than one direction within a single cell. This is achieved by the division of the cell into two or more regions, called domains, and by using protrusions on the glass surfaces to pre-tilt the molecules in the desired direction. By combining very small areas of molecules orientated in two directions, one opposite the other, the brightness of the cells is made to appear uniform over a wide range of viewing angles.

This unique patented technology provides what is widely acknowledged as the best performance of any TFT-LCD panels currently available. Typically, MVA 'Premium' displays provide a viewing angle of 170° in the horizontal and vertical directions and 160° in any direction. The displays offer a high contrast ratio of to 600:1, a high brightness of 500cd/m2, a palette of 16.7 million colours and a colour purity of 85% as defined by the European Broadcast Union. MVA technology ensures that panels are free from grey scale inversion and colour distortion.

The response times of the new displays are as fast as 25ms, the rise time being 15ms and the decay time 10ms or less. The 10ms response from white to black, which is the most recognisable transition to the human eye, is particularly fast, making MVA LCD technology particularly suitable for reproducing moving images.

The LCD displays incorporate twelve replaceable backlight CCFLs (Cold Cathode Fluorescent Lamps) with a life expectancy of 50,000 hours. An on-board inverter power supply and an LVDS interface are provided.

The FLC56XWC8V (*XGA) PC multimedia version provides a resolution of 1280 pixels (horizontal) x 768 (vertical) with a pixel pitch of 0.375 mm and the FLC56UWC8V (*HDTV+) television version offers 1920 x 1200 pixels with a pitch of 0.247 mm.

Fujitsu Microelectronics has designed and manufactured LCDs since 1990 and today supplies a wide range of high-definition LCDs for a host of multimedia, television, PDA, medical, Point of Information (POI) and radar monitor applications.

Note* XGA = Extended VGA. HDTV+ = High Definition TV+

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