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Liquid Crystals Today

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Company NEWS

Redefining the State-of-the-Art for STN LCDs

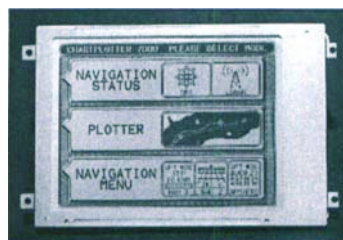
For the first time, both high duty ratio (1/240) and high operating temperature (+80°C) have been combined in supertwisted nematic (STN) liquid crystal displays, making them suitable for military, automotive and outdoor applications.

The complex VGA and 1/4 VGA displays (with duty ratios 1/240) currently manufactured by the Japanese are generally specified to operate from 0°C up to 40–60°C. Some custom LCD manufacturers are able to provide STN displays that operate up to +80°C, but these tend to be simple displays, with duty ratios of 1/32 or 1/64.

Hirst-LCD has redefined the state-of-the-art for STN LCDs by producing a highly multiplexed (duty ratio 1/240) display which operates from -40 to +80°C. This breakthrough has been achieved by the use of Hirst-LCD's proprietary, 270° twist, STN technology and a novel optimization of the materials and processes used by Hirst-LCD to manufacture custom LCDs. The use of a 270° twist angle also provides a high contrast ratio and a wide angle of view.

Further information on this product can be obtained from Dr Alan Mosley, tel: +44 (0)181 732 0041; fax: +44 (0) 181 732 0100.

High temperature 320 x 240 liquid crystal graphics display produced by Hirst-LCD.



From 3 inches to 200 inches

Developing a New World of Ideas for LCD Video

Since Sharp achieved the industry's first successful application of LCD technology in 1973, they have developed basic technology and manufacturing technology for many new LCD products.

In the video field, developed products include LCD colour TVs utilizing a high resolution TFT LCD display, LCD video projectors (front type) and ViewCam – which are contributing to both business and leisure.

Sharp have just announced their new generation LCD video products: the LCD Panel Vision GAIA (illustrated here) and LCD display TV WINDOW which open up new possibilities for multimedia displays.

Sharp LCD Panel Vision 'GAIA' XV-R43 (width 106 cm, depth 38.5 cm).



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