



Thermal derating of LEDs

In the last few years, high-brightness LEDs have become the choice for LCD backlighting. However, the introduction of high power LED technology has pushed the issue of thermal management back to the forefront. Like all semiconductors, LEDs must not overheat otherwise their long lifetimes will be adversely affected. A significant amount of the electrical energy flowing through the device is still converted into heat. Therefore, it is essential that thermal management and the consideration of the effects of high environmental temperatures are addressed right at the start of the design phase.

Ultra Wide View Polarizer

For most applications, a Hantronix TFT LCD will provide ample viewing angles. However, for those special applications requiring extra wide viewing angles, we can offer a cost competitive, highly effective solution. Until recently, for extra wide viewing angles, a more costly MVA TFT was the only option. Now, by utilizing our Ultra Wide View Polarizer to any TFT, we can achieve a comparable level of wide-viewing angles that were only possible using the costlier MVA option.

Benefits of Ultra Wide View Polarizer

- Upto 80/80/80/80 degree viewing angles
- Low cost
- Corrects grey scale inversion phenomenon
- Open landscape or portrait mounting option
- Available as option on any Hantronix TFT LCD



Ultra Wide Viewing Polarizer



7" TFT COLOR, HIGH RESOLUTION WSVGA 1024x600 PIXELS

Hantronix can now offer a high resolution version of 7" TFT color. If you need a higher pixel resolution than a typical 7" TFT 800x480, Hantronix 7" TFT WSVGA, 1024x600 pixels is available now.

7" TFT high resolution is ideal for tablet, CE application, multi media, and mobile devices. Overall thickness is only 3.4 mm which is suitable for portable applications. Projected capacitive touch panel option is also available.

- 7" TFT color
- High resolution, WSVGA, 1024x600
- a-si TFT type
- Overall size 166x 106 x 3.4 mm
- LVDS, 40 pins
- Color Depth 16.7m
- Contrast ratio 500:1
- View Angle (top, bottom, left, right) 70/75/75/75 degrees
- White LED backlit
- Brightness 250 nits
- With projected capacitive touch panel option (4 points) is available.

1" to 1.8" Small Size Color OLED Display anyone?

If you are looking for highly durable, power efficient, and wide viewing angle display, our small size Color OLED products could be a perfect candidate.

Key features of our Color OLED displays are:

1. Size: from 1" to 1.8"
2. Pixels: 96x34 up to 160x128
3. Color: Minimum 65K colors to 262K colors
4. Ultra Wide Viewing Angles (Minimum 80 degrees all around)
5. Wide Operating Temperature Range (-40C to +70C)
6. Only 2 mm overall thickness
7. Low Noise/Low Power Consumption

Suitable Application:

1. Any battery powered handheld products
2. Industrial gauges
3. Medical/Instruments

Please contact Hantronix Sales Team for more detailed information.

