

TECHNICAL BRIEF

BY: AZD ENGINEERING

Quality TFT Panels

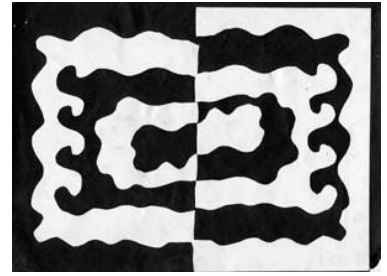
Quality of active matrix (TFT) color displays is often defined by such parameters as viewing angles, contrast ratios and performance over certain temperature ranges.

Contrast Ratios

AZ Displays continues its pursuit to meet and exceed the industry's standards of color saturation and better viewing characteristics of LCDs by offering displays with high contrast ratios. The contrast ratio is defined by the



Low Contrast



High Contrast

difference between a display's blackest and whitest content. A higher ratio generally means a crisper image and easier-to-read graphics. Higher contrast ratio featured in our TFT displays also means a wider range of color shades and tones, which enables a user to display very detailed still pictures of video.

Temperature Ranges

AZ Displays' color TFT displays offer high picture quality at wide temperature ranges. Some of them are rated from -20/-30 to +80/+85 C operating, and -30/-40 to +80/+95 C storage temp. Some examples of such displays would be our 6.5"(analog), 7"(analog and digital), 8".4(analog) TFTs. What sets them apart from regular/room temperature range LCDs is a special mixture of fluid crystal fluid that is more stable when exposed to harsh environments. All wide temperature range TFT panels from AZ Displays feature anti-glare coating. Outdoor applications may require additional brightness and sun-light readability enhancements such as DBEF and TMR (as described in a previous update). Such enhancements are optionally available upon special request.

