



MaxLife™

for Polysilicon Backplanes

Mura and OLED Compensation for Monitors & Television

AMOLED televisions require long lifetimes with superior image quality. Polysilicon-based AMOLEDs exhibit variations in brightness (“mura”) which reduce yield and performance, especially for large displays. The OLED also degrades over time, shortening the lifetime and causing “image sticking” of overlays such as stock tickers, network logos, etc.

IGNIS MaxLife™ Hybrid Drive Technology for PMOS and CMOS polysilicon backplanes delivers true-to-life imagery, **without mura or image sticking**. MaxLife™ powers TVs for 60,000hrs or longer, and raises manufacturing yields to over 90%. MaxLife™ delivers these advantages using today’s polysilicon & OLED materials and processing, **drastically improving the cost competitiveness and time-to-market of AMOLED as the next generation HDTV technology of choice**.

Benefits

- ▶ Mura-free; manufacturing yields are 90% or higher, even for television-sized panels
- ▶ Lifetimes of 60,000hrs or more
- ▶ Eliminates image sticking, keeping luminance uniformity to 99%
- ▶ OLED material requirements are relaxed

Conventional polysilicon AMOLED televisions show mura and burned-in text and graphics



Polysilicon AMOLED with **IGNIS MaxLife™** technology delivers crystal-clear pictures

