IGNIS Innovation Inc.

HEADQUARTERS
1010 Sherbrooke Street West
Suite 202
Montreal, Quebec
Canada H3A 2R7

T 1 514 396 3588
F 1 514 396 3511

DESIGN CENTRE
22 Frederick Street
Suite 1114
Kitchener, Ontario
Canada N2H 6M6

T 1 519 772 1136
F 1 519 772 1157

IGNIS JAPAN OFFICE
7F CJ Building
2-7-4 Nishishimbashi
Minato-ku Tokyo
105-0003 Japan

T +81 (0)3 5579 9282
F +81 (0)3 5579 9291

www.ignis.ca

PROUD MEMBER OF

OLED ASSOCIATION

SID SOCIETY FOR INFORMATION DISPLAY

Innovate. Enhance. Inspire.

IGNIS Innovation Inc.

IGNIS MaxLife™

Mura & OLED Compensation for Monitors & Television

Image Sticking Compensation for Monitors & Television

IGNIS 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 significantly improves manufacturing yields. 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; resulting in significantly higher manufacturing yields, even for television-sized panels
- Lifetimes of 60,000hrs or more
- Eliminates image sticking, keeping luminance uniformity to 99%
- Compensation for OLED efficiency loss

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

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

IGNIS MaxLife™ for Amorphous Silicon Backplanes

Lifetime and Image Sticking Compensation for Monitors & Television

In AMOLED televisions with conventional amorphous silicon backplanes, both the backplane and the OLED degrade rapidly. This diminishes the user experience by reducing device lifetime and causes “image sticking” of text, network logos, etc.

IGNIS MaxLife™ Hybrid Drive technology for amorphous silicon delivers the ultimate state-of-the-art backplane for AMOLED TV. **With cutting edge performance, MaxLife™ pushes the limits of convention by using amorphous silicon for television. This enables AMOLED TV to rapidly expand into larger display sizes for lower cost.** Taking advantage of industry-standard amorphous silicon manufacturing infrastructure, MaxLife™ is the first and best choice in backplane management solutions.

Benefits

- Uses existing amorphous silicon processes, delivering high yields and leveraging the huge available manufacturing capacity
- Lifetimes of 60,000hrs or more
- Eliminates image sticking; luminance uniformity of 99%
- Compensation for OLED efficiency loss

Conventional amorphous silicon AMOLED televisions show burned-in text and graphics

An amorphous silicon AMOLED television with IGNIS MaxLife™ technology is crisp and clear

Our advantage: Relaxation Driving

IGNIS relaxation driving actually slows the degradation of the amorphous silicon backplane, delivering tomorrow’s displays with today’s materials.