

Regensburg, 10. September 2010

## **Optimum color reproduction for professionals thanks to RGB LEDs**

OSRAM Opto Semiconductors' LEDs provide outstanding performance in professional reference monitors

**OSRAM Opto Semiconductors' LEDs support the highest technical standards for Dolby's LED-backlit professional reference monitor, designed specifically for professional content creation applications and targeted at production and post-production of films and TV shows. The Dolby PRM-4200 professional reference monitor uses 1,536 RGB LEDs. OSRAM's LEDs provide high performance with wider color gamut, color accuracy, higher dynamic range and deep blacks.**

The Dolby PRM-4200 professional reference monitor, a 42-inch LED backlit reference display, is tailored for professional applications that require accurate and true color reproduction, increased dynamic range, deep black levels as well as excellent greyscale tracking. The use of LEDs along with Dolby's proprietary dual-modulation and calibration technologies allows the display to meet these demanding requirements. Conventional backlit monitors with CCFL backlighting (cold cathode fluorescent lamps) struggle to provide deep blacks, end up displaying dark grey instead and are limited in color gamut.

The LEDs Dolby uses are Ceramos MultiLED devices from OSRAM Opto Semiconductors. They deliver the high performance required by the professional content creation industry. The red, green and blue chips of the LED are positioned so the color mix has the same appearance when observed from a wide range of angles. The 0.9mm high and 3x4.5mm size package is ideal for flat backlights and its ceramics material makes it extremely stable over a long period of time. These LEDs have lifetimes in excess of 50,000 hours.

"We are pleased to work with Dolby and provide them with high performance LEDs that can meet the needs of their demanding applications. The trend towards LEDs for use in display applications is clear and our analysis also shows that more than 50% of consumer TV sets will be equipped with LED backlighting in 1-2 years," said Winfried Schwedler, Marketing Manager at OSRAM Opto Semiconductors.



Photo: Dolby

[www.osram-os.com/press](http://www.osram-os.com/press)

Dolby's PRM 4200 monitor – brilliant colors with OSRAM Ceramos MultiLED.

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