

**Lumiotech to Start Delivery of 10 Types of OLED Lighting Panels
- World's first mass-production panels -**



Yamagata, November 10, 2010 -- Lumiotech Inc. (President: Hisao Shigenaga, Head Office: Yonezawa City, Yamagata Prefecture), a company dedicated to organic light-emitting diode (OLED) lighting panel business, will start to deliver in January 2011 of ten types of OLED panels: five shapes with two color. Expecting customers to embed the panels into their products, Lumiotech will deliver the panels with performance guarantee for mass-production OLED lighting panels. The company targets the production of around 60,000 panels a year.

The OLED panels are two square-shaped and three rectangular-shaped panels. Each will be available in two color types: lamp color and natural white. Compared with the sample panels, for which deliveries began in February 2010, thickness and weight have been halved in the mass-production models. Also, the price of a 145 x 145 millimeter (mm) OLED lighting panel, excluding controller and AC/DC adapter, is set at 30,000 yen (plus 5% sales tax in Japan) – less than half of the sample panel price.

Prior to the delivery these types of panels are being exhibited at the M's Square, a showroom located on the second floor of the head office building of Mitsubishi Heavy Industries, Ltd. (MHI) in Tokyo, which was renewed and opened on November 10. At the M's Square, the OLED panels are used for part of ceiling lights, enabling visitors to experience these environmentally friendly, next-generation lighting panels.

Lumiotech was jointly established in May 2008 as the world's first business enterprise dedicated exclusively to OLED lighting panels, initially to assess the panels' business viability. The companies that invested in Lumiotech include MHI, ROHM Co., Ltd. and Toppan Printing Co., Ltd.

Leveraging the development of a new device structure enabling simultaneous achievement of high luminance and long lifetime – two features that in the past were considered performance trade-offs – Lumiotech established a mass-production line at a facility in Yonezawa City, Yamagata Prefecture, where it is undertaking development and production of OLED panels for lighting applications. Realization of the high-speed, large-scale production system (in-line deposition equipment with linear evaporation source for large substrates) has also significantly enhanced material utilization efficiency.

OLED lighting panels offer advantageous features that neither conventional light sources, such as incandescent bulbs and fluorescent tubes, nor light-emitting diodes (LED) provide:

- * - Lightweight
- * - Thin
- * - Surface-emitting
- * - Uniform soft light
- * - Free of ultraviolet rays
- * - Free of harmful substances such as mercury
- * - Help reduce CO₂ emissions through energy savings.

For these and other reasons, OLED panels are expected to be a promising next-generation lighting source.

Lumiotech will determine the commercial viability of its OLED lighting panels based on the results of the delivery for mass-production panels.

Product Lineup

	Square-shaped panels	
Size (millimeters: mm) width x length x thickness	145 x 145 x 2.1	97.6 x 97.6 x 2.1
Weight (grams: g)	102	38
Color temperatures (Kelvin: K)	3,000 (lamp color: L) 5,000 (natural white: NW)	

	Rectangular-shaped panels		
Size (mm)	287 x 97 x 2.1	287 x 74 x 2.1	287 x 59.5 x 2.1
Weight (g)	133	100	80
Color temperatures (K)	3,000 (L), 5,000 (NW)		

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