

PRESS RELEASE

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Novaled demonstrates reliable OLEDs on metal substrates

Novaled, a leading company in OLEDs for display and lighting applications, demonstrated its know how and expertise on efficient and long lifetime OLEDs on metal at the Light and Building Frankfurt.

Novaleds PIN OLEDs on metal substrates combine the attractive appearance and superior physical properties of the metal substrates with the unique features of Novaled OLEDs such as long lifetime of up to 20.000 hrs. Metal substrates like steel or aluminium have excellent barrier properties, flexibility and robustness for handling. OLEDs on metal can be used in applications where magnetic clipping of the OLEDs is intended or where soldering, drilling and similar assembly steps are required. Furthermore, metal will also allow for bended or bendable OLED solutions. As this substrate material has very good heat conducting properties, OLEDs on metal are advantageous in application where heat dissipation is critical. In addition, metal substrate opens the roadmap towards low cost roll-to-roll mass production of OLEDs.

Novaled has a profound know how on how to build OLEDs on metal. Together with Arcelor Mittal Novaled has been developing OLED structures for steel substrates since 2006. In the German project Rollex Novaled contributed since 2007 to develop OLEDs on flexible aluminium substrates.

“Besides demonstrating excellent results with OLEDs on glass Novaled has developed a unique know how on OLEDs on metal”, says Gildas Sorin, CEO Novaled AG. “With OLEDs on metal Novaled is extending the range of lighting applications and solutions to specific market needs.”

The OLEDs manufactured by Novaled for luminaires and light sculptures shown at Light + Building Frankfurt are processed directly on steel plates of 0.7mm thickness. The metal substrate requires specific top emitting OLED structures. Novaled has developed a dedicated ITO free OLED architecture reaching performances similar to standard bottom emission structures. In addition Novaled is developing thin film encapsulation which will enable bended OLEDs.

about OLEDs

OLEDs (organic light-emitting diode) are semiconductors that are made of thin organic material layers that measure just a few nanometers in thickness. They emit light in a diffuse way to form an area light source. This disruptive technology represents an entirely new approach for architects, designers, system integrators, planners and luminaire makers when working with light. OLED lighting has a dual nature, which means it can function both as a lamp and a luminaire. OLEDs herald the future of a vast array of completely new lighting applications and by combining color with shape, OLEDs will create a new way of decorating and personalizing surroundings with light. Furthermore, organic LEDs will make a significant contribution to sustainability due to their energy efficiency, environmentally friendly materials and reduced packaging requirements

about Novaled

Novaled AG is a world leader in the OLED field and specializes in high efficiency long lifetime OLED structures and is an expert in organic electronics. The company is known for its Novaled PIN OLED[®] technology, its proprietary OLED materials and the customized OLED products and services. Novaled has developed long term partnerships with major OLED producers throughout the world. Based on

more than 400 patents granted or pending, Novaled has a strong IP position in the field of OLED technology, and was named No. 1 in a list of 'up and coming' world market leaders by the German newspapers Handelsblatt and Wirtschaftswoche. Its main investors include eCAPITAL, Crédit Agricole Private Equity, TechnoStart, TechFund and CDC Innovation. For further details please visit www.novaled.com.

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