

ORGANIC LIGHT EMITTING DIODES (OLED)

... the first really laminar source of light. In contrast to the point focused radiating, inorganic LEDs they use organic semiconductors for light generation.

The power flows via ultrafine organic layers – one hundred times thinner than a hair. As construction units they are very thin, presently only 2mm. The even, glare-free light with high colour reproduction quality of the OLEDs is very energy efficient, and environmentally compatible. They bring immediately the full lighting requirements, can be dimmed smoothly, and are very flexible regarding colour control. Materially, the OLEDs themselves can be very easily integrated into other materials, and can function very adjacently to sensitive materials without danger of burning. Flexible elements will also create in the near future completely new application types.

The network OLAB is a group formed from partners from economics and applied research backgrounds, affecting prototype development for niche markets, with the emphasis on image processing, security engineering, microscopy, medicine and automotive design. Along the formed value added chain in the medium term, the structure of one customized manufacturing of OLED lighting components will take place on the basis of the bare level parts.

energy efficiency by organic light

CONTACT

Network management

Technology Project Development
Gotthard Weißflog, PhD
Hinter dem Spielberge 10
D-07751 Jena

Tel.: +49 (3641) 224889
Fax: +49 (3641) 224969
Mail: info@oled-olab.net
Web: www.oled-olab.net

Managing director: Gotthard Weißflog, PhD

Network management facility

Technology and Innovation Park Jena (TIP)
Hans-Knöll-Straße 6
D-07745 Jena

Tel.: +49 (3641) 675100
Fax: +49 (3641) 675111
Mail: info@tip-jena.de
Web: www.tip-jena.de

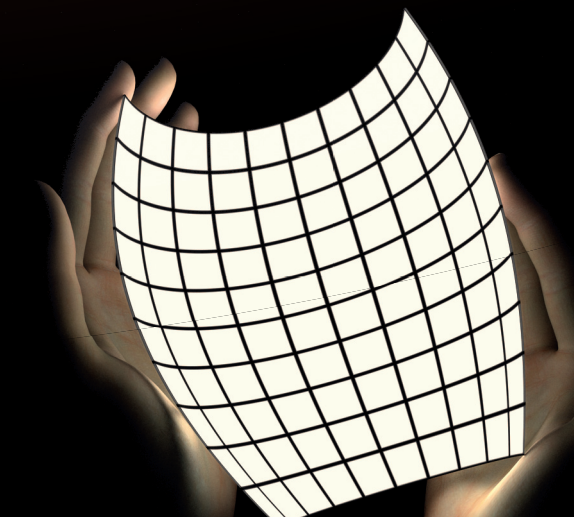
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The OLED network OLAB promoted through:



NETWORK OLAB

OLED Industrial lighting applications



www.oled-olab.net

INNOVATIVE SMALL AND MEDIUM-SIZED BUSINESS NETWORK OLAB

 hema electronic GmbH	 Lust Hybrid-Technik GmbH	 Stemmer Imaging GmbH
 SYSTEC Unternehmensgruppe	 Lumundus GmbH	 Fraunhofer IOF
 LUCAS components GmbH	 Solamagic GmbH	 IMMS gGmbH
 Uwe Braum GmbH	 Wilhelm Koch Lichttechnik GmbH	 Kroh Kunststofftechnik GmbH
 Innovent	 Philips Lighting	 Günter-Köhler-Institut für Fertigkeit und Werkstoffprüfung GmbH
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OLED INDUSTRIAL LIGHTING APPLICATIONS in the focus of OLAB

Automation, Production Technology, Medical Technology, Microscopy and Security Technology „White Goods“, Automotive, Handicrafts

VALUE ADDED CHAIN Manufacturing and application

